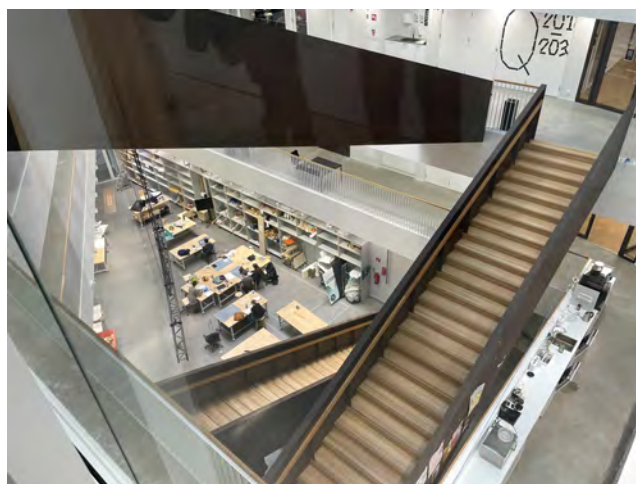


- ☐ **Name:** 고한주
- ☐ **Host University/Institute:** Aalto University
- ☐ **Participating Program:** UGP - Aalto University
- ☐ **Program Period:** 2023-01-15~2023-01-28

On the first day, on the way to university, I really surprised because metro station was connected to the building of the university. After we arrived, we just had time to know each others in the morning. Also, Saara introduced the Aalto University. Saara said "Aalto" means "wave" in Finnish.



After that we looked around some parts of the campus of Aalto University, especially design building and business building. The structure of building was quite unique because it had diamond-structured. Also, stairs was in the midst of the diamonds



I thought that Aalto University really thought about "learning by doing",

because there is space for students to utilize. There is space for seminar on the bottom of the building, and some workrooms was open for the students freely. UNIST does not have that space for research or work. So I was envious of Aalto University students. Also, each building in the university had a restaurant because it was so big and crowded. What's interesting is, design and even the color and tone of the building was different as the main usage of the building. Business building had yellow color to have warm and comfortable mood, and design building had white color to have cool and concentrating mood. Also, we could go in and out the design building when we tagged an ID card like UNIST because they had a lot of art works in the building. I understood why they made that system, but we cannot enter the building although we had a class in the building because we don't have any ID card. UNIST had temporary ID card policy, but Aalto University seemed not. It is one uncomfortable thing.



After looking around, we had a lunch. We also could not get a student discount in some restaurants because we did not have student ID card. In the afternoon, we are divided into 5 groups and we found what is sustainable development goals (SDG), and what is the problem of each SDG assigned to each groups. We were assigned SDG 15, "Life on Land". We found how to preserve species diversity in the city while giving advantages for people. We talked about some solutions, making a big park like "New York Central Park" in a big city, social media promotion,

ambassador, and using future techniques. We voted and decided that building a park was the best solution. So, we discuss how to make big park in a city and how to promote and make money for a creation of park. We solved the problems by honorary ambassador, sponsor, and donation. We thought that honorary ambassador like BLACKPINK or BTS can promote the park by composing and singing a song, social media update, etc. Big company in each country also can sponsor building park, and get a eco-friendly image.

We learned AI that can be used to chat and draw a picture that I describe the image to AI. So, we used AI for drawing picture in our presentation, which was park in the city that reflected the characteristics of each country.



In extracurricular program, we went National museum of Finland and Nuuksio national park. Nuuksio national park was amazing because we cannot see easily the all-white snowy forest. Also, we saw how to fire and how to survive in the large forest. It was interesting.



- ❑ **Name: Kim Gyeong Hwan**
- ❑ **Host University/Institute: UNIST**
- ❑ **Participating Program: UGP - Aalto University**
- ❑ **Program Period: 2023-01-15~2023-01-27**

The final day of the program, im writing this report feeling glad and grateful.

Finland was really impressive country becaues of it's beautiful winter landscape and people who look little aloof but nice actually. And not only traveling the finland, we could learn AI and big data concepts as well as finnish and finland culture. These following pictures are the most favoiрте place I've been in finland.





I've never seen frozen sea and this large birch wood. They were beautiful and also hard to see in my country so that I felt the true vibe of the Finland and so pleased. And the people I got to know through this program are also really valuable. The experience is our own common memory and will be never forgotten. I want to share some of my experience. The exhibition at gallery amos rex was really impressive.



The theme seemed to be 'monochrome' there was no color but just gray, every sculpture and the lights were gray. It felt weird being surrounded by 'monochrome' but so nice.

The class was so fun, the most interesting part was psychology trick class, I learned some tricks to relax myself in front of public like touching myself and hold contact.

The field trip was so nice, we visited national museum and we could see the long whole history of the finland with a lot of monument and totem. And the trip to nuxio national park was so good because we could see the wood and country life there. We saw the outdoor life such as cooking and survival skill. I couldn't help buying the flint they use.

The exotic food was so good. I tried reindeer, wild pig and slamon soup. They were expensive but worth trying.

I did ice skate here, visited old fortress and boarded on ferry which go through the frozen-broken ocean.

Everything i did here, everyone i met here, i really want to say thank you to all. And also our instructor Sim, i really thank you for your support and care for us.

Thank you.

- ❑ **Name: DOKYOUNG KIM**
- ❑ **Host University/Institute: UNIST**
- ❑ **Participating Program: UGP - Aalto University**
- ❑ **Program Period: 2023-01-15~2023-01-28**

Unforgettable Memories in Finland

1. Introduction

The two-week UGP program at Aalto University is about AI and Big data. During the two-week class, I was able to take classes on AI and big data, conduct team projects, develop ideas, and practice the process of cooperating with team members. In addition, I could learn Finnish history, culture and language by going to museums and national parks.

2. Memorable activities

(1) welcome dinner (traditional Finnish foods)



The picture above is a welcome dinner picture on the first day. It was awkward to me

et everyone for the first time, but we had a time to get close at a restaurant with good atmosphere, eating reindeer meat and traditional Finnish food with wine. I tend to be a bit introverted, so I had a little fear of meeting new people before the program, but they were all really good people and I could get along with them easily.

(2) Nukksio Park (Finnish Nature)



Before coming to Finland, the most anticipated activity was Nuuksio National Park. This line appears in one of my favorite movies, "the Kamome restaurant", "Why are Finnish people so relaxed?" "This is because of forest". This line was very memorable and I wanted to go to the forest if I came to Finland. Nuuksio Park, which I went to as a program activity, was also more than expected. Grilled salmon, warm coffee, and pancakes were enough to withstand the cold weather. The forest I saw from this park was really amazing. It will be hard to forget the scene of snow blooming on the branches that have fallen out of leaves. Also, the forest from above was really magnificent. As in the movie line, I thought that the magnificent nature could give people relaxation, and if I had a chance, I really wanted to visit again in the summer of Finland.

3. Memorable Lectures

Actually, I expected to travel rather than class before coming to Helsinki. I thought it would not be easy to learn complex fields such as AI and big data for two weeks. But the class was more fruitful than I thought and I learned a lot. It was a class content that was not too theoretical, was able to get to know trends in AI and big data, and give sufficient interest in the field.

(1) AI lecture



The most memorable class is AI. We used a program which AI draws pictures and a tool called chat GPT. At first, I was worried about the need for coding, but AI drew pictures, told me information through chat, or even wrote personal reports when I just entered keywords in human language. I couldn't help but be surprised by AI's technology when I saw this. Even if you don't know how to code, you can get the image or information you want if you enter the keyword properly. This class was enough to arouse interest in AI.

(2) Imposter syndrome



In addition to AI and big data-related subjects, imposter syndrome and presentation skills classes are memorable. In particular, I realized that I had a lot of doubts about myself during the Imposter Syndrome class and thought I could trust myself more or move forward.

orward with confidence.

(3) Team Project



Previously, there was no opportunity to work on team projects or make new items while attending engineering school. It was my first time to try make a product such as brainstorming and identification with team members of various majors. Doing this, I was able to know the process of producing a creative product, and learn how to cooperate with team members and how to come up with ideas. It was a fresh experience, and it was an activity that seemed to be helpful in any field afterwards.

4. Impression of program



On Saturday, January 21, I saw the sun for the first time in a week since I came here. It was cloudy all week, and the first time I saw the sun in a clear sky, my feelings were indescribably good. After returning to school after serving in the military, I studied my major and prepared for a job for a year without a break. For me, who was tired of repetitive daily life, the meaning of this program is similar to my feelings when I saw the sun in a week.

Before coming to Finland, expectations for travel after the program were much higher than expectations for the program. However, I felt and learned a lot from the program. The best thing was the people. Of course, the Finns were all kind, but the people who came to the program together were really perfect. I was afraid of meeting new people because I liked being alone and I was introverted, but everyone was so kind and approached me first without hesitation. I was more impressed by people than by cities or activities. Everyone had various experiences and thoughts, and I was able to think and get inspiration by sharing them.

The only regret was not being able to make friends with more people. Two weeks felt too short, and I was so sorry that I couldn't approach first.

Overall, the whole program was good. The class was interesting, and it was also good to visit downtown Helsinki and surrounding cities in the middle of the program. Above all, it is good to meet many good people, and I think this program will be hard to forget for the rest of my life.

- ☐ **Name: Kim Dowon**
- ☐ **Host University/Institute: UNIST**
- ☐ **Participating Program: UGP - Aalto University**
- ☐ **Program Period: 2023-01-15~2023-01-28**

Facing special winter in Helsinki

I tried to use an overseas scholarship and finally participated in UGP after the time when I couldn't use it because of Corona. I wondered Finland as the first country on my first trip to Europe. I was a little worried about meeting people, who were at the same school but would never have encountered them, for two weeks of the program and staying together in a completely new environment, but I left Korea with excitement. In fact, my close friends participated in the program together, so I thought it was okay not to get close to new people. Indeed, I got along pretty well with other people and became quite close. However, I was a little distracted without feeling that I had arrived in a new country. The immigration process took a lot longer than I thought, and I had a friend waiting for me at the airport for three hours, so I only thought I should get out of it quickly. Most of the time, I thought it was too late on my way to the hotel by taxi with my friend from the airport. Still, what I felt while taking a taxi was that it was a country where communication was good in English, so I had to somehow speak with my short English skills. That alone made me feel like I was abroad enough. The time has finally come for me to be in the minority position. I didn't feel anything special because I just looked at the road while riding a taxi, but English and Finnish signs, low buildings, and piles of snow collected in one place were indicating Finland. When I arrived at the hotel, got the key, and entered the room, there is not a roommate, so I took a shower and went out for dinner. It turns out that Minsu, my roommate, was a friend who is fellow colleague and was undergoing immigration right in front of me. Minsu took the subway and I took a taxi and arrived earlier.

I participated in the program with Joochan and Changjun, and I found out that Minjeong, who I knew before, also participated. Changjun, who arrived before me, became close to Yejin and Hanjoo, who are other fellow colleague, and naturally, six colleagues went out to have dinner together. The first dinner I had was reindeer steak across from Helsinki Cathedral.



To be exact, I chose it as a course, and among them, reindeer steak came out. The name of the store is 'Restaurant Savotta'. I chose everything from starter to wine because I want to eat nicely when choosing course. I also ordered bear meat because I was curious, and it came out like jangjorim, but the strong bear scent was enough to get tired of eating it, but the reindeer steak was quite delicious. The most delicious food I had in Finland was this reindeer steak. The taste was different from pork and beef to me, and the mashed potato served with it was delicious with plenty of butter.

Before going to dinner and on the way back to the hotel after dinner, I took the subway comfortably, and the street felt like a mixture of medieval and modern times, so I felt like I really came to Europe. It was a fairly calm and easy place to use public transportation. The transportation card we used was pretty good. To talk more about public transportation, Finland was a place where transportation was quite convenient and a trust-based society. The transportation cards I received were two 1-week passes, and once the pass was opened, there was no need to show my pass whenever I used any transportation. Ordinary citizens seemed to be able to use these passes. As a result, I saw more than half of people not showing traffic passes, paying tickets, and paying money at subways, buses, and trams. We used it fairly but I thought no one would know if someone rode it without using these tickets. In fact, I have never seen anyone look strange or check if there are actually valid tickets even if they just pass the subway ticket gate or get on the bus without doing anything. The train to the airport was completely unavailable with the transportation card we received, so we should have bought an extra ticket, but we couldn't see any staff or machines checking even the tickets. When I saw it, I thought it was a very trust-based society.

While doing UGP, I took several classes and presented a project, but I want to highlight the outside of the class more than the class. The theme of class was AI, and it was interesting because I did not take it well in my major, chemistry, but it was not easy. Since UGP was a free atmosphere I was much more impressed by the aspects outside

the class. Since UGP basically took classes, it was difficult to go out together after class at 4 p.m. if you don't come forward and talk to others. Fortunately, I had friends I knew before and luckily I had a group to play with a day before the program's start date, but I thought that two weeks in Finland could be just a class and pass by for those who participated in UGP alone, especially those who didn't like to talk to others first. So, when the UGP is held later, I hope that each participant will have a chance to talk about themselves and get close to each other within three days of the start of the program. Of course, I think it would be good to encourage participants to make such time on their own even if they don't set a time so forcibly. In fact, that was the case this time, UGP supporters suggested having a proper self-introduction time in the social room to get closer together. Thanks to that time, I got to know people who had passed by and I felt an atmosphere that became more comfortable to talk to other people. However, it was a little late for the first Friday, and it was a bit disappointing because it was the day before teacher Shim, who played the role of guidance, left. Still, such a time was very fun and enjoyable.

I went to the National Museum and then to Nuuksio National Park. The National Museum was conducted as a guided tour, but it was also difficult to understand because it was conducted in English, and it was not explaining the entire museum, so there was not enough time to look around. That part was a bit disappointing. Nuuksio Park was also a guided tour, but it was much more relaxed. I liked to take pictures of the scenery and wanted to take pictures of the scenery without people if possible, so I followed the group slowly at the end of the line, and the guide who manages the back waited for it and sometimes kindly talked to me and added explanations. So I could enjoy the scenery slowly at my own pace. I remember walking slowly in admiration of the scenery that was hard to see in my hometown in Korea, such as snow falling between the snow mountains, snow on trees, and frozen snow crystals in the shape of leaves. The specialties made with local ingredients and the food provided were all good, but it was a really good memory to enjoy the park while walking slowly. As I walked out of the park, I wanted to look around more.



Finland belongs to Europe, but how much does it mention Finland when people ask which of Europe they want to travel to? As one of those people, I might not have come to Finland without this program. However, I came to Finland and visited a new university called Aalto University, learned Finnish culture and language, and ate traditional dishes. After gathered people to go to a more northerly area to see the aurora, eventually we were able to see the aurora. There is a lot to say about the aurora, but to put it simply due to the circumstances, it was so beautiful and unbelievable that the short time I saw the aurora was like a dream. It was so fantastic that sometimes I saw the aurora because it was unrealistic that I thought it was a dream or an illusion. I think it's probably the first group in the UGP to go to see aurora, and since it cost 300,000 won to 400,000 won, I'd like to recommend it to students who want to have a fantastic dream that can only be experienced in low latitude.



On the last day, I presented a group project, and my group, Salmiakki, presented to build a new building to increase self-sufficiency. The team members were always active, but the more we prepared for the presentation, the more immersed we were, so I modeled the building by the modeling site, and Jaehyuk even made the logo and QR of the building in the ppt. It was a proud time because I prepared hard and presented it. After the presentation, we all had lunch together and broke up but it was a bit disappointing because it ended with no impact, so I felt like the end was ambiguous. I guess that means it's not the end of the relationship. I experienced so many different things and it was a lot more fun, informative and happy two weeks than I expected. So I would like to recommend it to all students.

- ☐ **Name: Kim Dongkyu**
- ☐ **Host University/Institute: UNIST**
- ☐ **Participating Program: UGP - Aalto University**
- ☐ **Program Period: 2023-01-15~2023-01-28**

At Jan.14 I got on the plane to Helsinki. I was so excited for the next few weeks in Finland and Unist global program. The first day in Aalto university was Jan.16. At that day, we introduced ourselves at class and 2 Aalto students gave us a campus tour. Aalto university was quite large and built with artistic sense. Aalto stands for a architect Aalto and also the student said it means wave.



The program in Aalto university was good. Especially, Digital twin and Energy storage system lectures were the most interesting classes for me. Because I was interested in those topics already, I felt the quality of lectures were good and it was helpful for me. I could learn so many things and knowledges from that.



There are lots of activities we did in Finland. Among them, my favorite spot was Nukksio national park. We went there at 1/23, Monday afternoon. The forest covered with snow was wonderful. I have never seen landscape like that in my life. Since I love snow and forest also, I really liked Nukksio national park and also lunch with a cup of coffee in the tent.



My second favorite activity was sauna. We went Loyly sauna located in Helsinki at Sunday. In there, we can pour water on the rocks then water vaporize and we can feel hot heat. At there, when we got heated, we dived into the iced sea which is Baltic sea. It was very cold so that we couldn't wait even 30 seconds in the water. However it was very special experience for me so we enjoyed it 5 times.



It was my first time to visit Europe. For that reason, everything was new for me and especially all buildings in Helsinki was fantastic. So I went outside everyday after the class over. And I have new experience there. I went an exhibition held in Amos Rex one day with my friends. To enjoy the exhibition deeply, we had an appreciation of displays individually. When I was enjoying exhibition alone, a Colombian girl request me to take a short video to post on instagram. And then we started to talk about the exhibition. English was hard for me but we talked about 20 minutes, it was great experience to talk with new person.



One interesting thing was whenever I thought 'Ah, there are no rest spots or activities any more:(', some new spots or activities are discovered or created. And Turku was one of that cases. One day before the last day in Finland, Thursday, I and my friends got on the bus to Turku with no plan. The bottom line is, it was great. First, the whether was sunny with blue sky. The last thing was, beer was perfect.



In conclusion, my UGP was perfect. I appreciate all people with me and related to this program. Before register this program, I felt little bit afraid because I was alone and it was Europe. But after this program, I gained confidence. And everybody around me were kind and helpful.



☐ **Name: Kim minwoo**

☐ **Host University/Institute: UNIST**

☐ **Participating Program: UGP - Aalto University**

☐ **Program Period: 2023-01-15~2023-01-28**

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It is always great luck to have access to a new culture. While studying with a laboratory intern in 2022, I decided to gain a lot of experience through taking a leave of absence before going to graduate school. Based on this opportunity, I applied for UGP to help me in the future.

It was a very mysterious experience to adapt to an unfamiliar culture through the UGP program. I adjusted to the time difference of more than half a day, and it was an opportunity to take a closer look at the university culture in Northern Europe. I was able to think about what we're focusing on especially at Aalto University, what we're curious about in the upcoming society, and what values we're going to value.

What was planned in this program was related to artificial intelligence and big data. My major is Material Science and Engineering, so I was worried if I could combine it well. Fortunately, I was able to understand a lot of things by taking a course that incorporates analysis using code into the major field I am learning in the previous semester. In particular, I liked the AI lecture the most, and we know that the rapid development of artificial intelligence is progressing much faster than our society expected. Three days before I left for Finland, I saw the code content and developer interviews about Chat GPT on YouTube through algorithms, and I was very interested in the ethical issues and the impact on society in the future.

Therefore, I was able to listen to lectures on AI more interestingly and get a lot of other contents. However, what was unfortunate was that UNIST is an engineer, so I think scientific and engineering knowledge has risen to the level. Therefore, I think it would have been better if we also dealt with ethical issues related to this. I don't think the development of science is going to be decided, so if you give students who will contribute to the development of science and engineering in Korea, I think it will be a better program and leave a lot of lingering feelings.

Also, I was very interested in the lecture that helped me to get to know the language and culture of Finland. In particular, I think language contains the spirit of the people who use it, so I think it was an opportunity to take a step closer to the national spirit that constitutes Finland, not just teaching language.

Overall, I think this UGP program has dealt with enough important contemporary issues (artificial intelligence, big data) and is organized so that students can take a lot of memories of Finland apart from it. In the last team project presentation, I am sure that Aalto Univ. teachers' advice was helpful at the same time as it was a

valuable opportunity for many students to present in the future. As many students find it difficult to present and speak in front of others, I think this experience has also given them confidence.

Once again, I'm really grateful for everything to get this opportunity. Perhaps this experience will remain a precious memory until I die and make me stand.



- ☐ **Name: Minjeong Kim**
☐ **Host University/Institute: UNIST**
☐ **Participating Program: UGP - Aalto University**
☐ **Program Period: 2023-01-15~2023-01-28**

In fact, I had a lot of worries before I applied for the UGP program. There are many things that I'll get a lot from the program, but it was my first time going abroad, and I hesitated to apply to the program because I was afraid that my English would not be enough to communicate with the locals. However, I participated in UGP for two weeks and had a valuable experience that I couldn't do easily, and I thought it was fortunate to have this opportunity.

UGP conducts many classes on various topics including AI and Big Data and group projects for two weeks at Aalto University. There are many indoor and outdoor activities and Finnish culture & language classes where we can find out various aspects of Finland. There were many impressive things while taking these various classes.

First of all, there was a team project to think about and present how to solve one of UNESCO's Sustainable Development Goals. The ideation process was impressive. No matter how foolish and unrealistic a story was, I felt that it was very important to say it out loud first. To this end, the class created an environment where we can pour out everything that comes to our mind using various assistive tools such as post-its, time limits, and special or extreme situations. I used to specify my ideas in my head for a long time and give an opinion only when it was convincing enough, because I was worried that the opinion would be easily refuted or that there would be any errors. However, when I talked about my opinion during this brainstorming process, I felt that it could be an opportunity for others to think from a new perspective, even if it was not the answer. The team members all accepted each other's opinions positively and made much greater synergy by reinforcing the other's opinions. So I realized that I had been too negative and afraid to express my thoughts. This experience will allow myself to communicate with my team members more comfortably.

I learned more about Finland by some lessons and activities include Finnish language and culture classes, Finnish dinners, The National Museum of Finland, and Nuukio trip. Especially, I got to know Finland better by hearing about Finland's historical background at the National Museum. After the class, I used to visit various places in Helsinki, such as Suomenlinna, which was used as a fortress. It helped me understand what these places would have looked like in the past. Finnish language and culture classes took place on the second day. We study how to say basic conversation like hello, thank you, and number. It was very helpful for me to live

in Finland for two weeks by learning Finnish expressions that I use a lot on a daily basis. In Finnish culture classes, I learned that Finns are basically independent and shy, so I was careful to talk to Finns. But when I asked them politely, there were many Finns who did their best to inform me.

In addition, among various special lectures, classes on imposter syndrome was also impressive. I didn't know there would be a psychology class in this program, but it was a very interesting class. Imposter syndrome is a phenomenon that attributes my success to luck and believes that my skills are not that great. Others think that I have a high level of skills because they see my achievement, but I am also worried that I will be found out my low level because I am lucky to have achieved it and I don't think I can succeed that much again with my skills. There was a time when I thought I had low self-esteem and didn't trust myself well, but it was interesting to be able to define such a figure through the word 'imposter syndrome'. In addition, other students also have that aspect, and they shared the experience of overcoming it. During this class, I thought I could overcome the imposter syndrome.

What was impressive about AI & Big data was the AI art generator and chatGPT covered in the AI class. AI art generator creates a picture that fits the sentence by entering several variables, including the sentence I want, the element I want to enter, and the element I don't want to enter. A task was given to make a picture expressing the meeting between Finland and Korea. It is a hard process that AI recreating the image I imagined into a picture by expressing it in text. It was more difficult than I thought. ChatGPT is an Open AI chatbot that is much more intelligent than Simsimi in Korea or Siri in iPhone. Interestingly, chatGPT can write essays and make some codes. We also asked chatGPT about where to go to play when there is no place to go in Helsinki anymore, and what are the problems of the current city to create a sustainable city. ChatGPT gave high-quality answers for both of questions. On the recommendation of ChatGPT, we visited to the trampoline park and had fun.

We used to learn various fields at university from 9 to 4, but we were not only at Aalto University all day. After the class, we traveled around Helsinki's various tourist attractions and restaurants. We also went to pubs with UGP team members. In fact, I haven't enjoyed traveling so far, and I like to spend time with a few close friends. In addition, after entering university in 2020, I have not been able to experience club activities and MT due to the influence of COVID-19. There was also a view that it's too bad for graduating without having the precious experiences I could have in college, but I thought I wasn't that upset because I wasn't such an extrovert. However, the time of getting to know each with many people through this UGP was quite new and enjoyable. The time to travel with new friends, talk to each other, share special experiences, listen to the stories of the other person's life, and learn new things was very precious, and I thought that

youth was like this. Also, experience by spending money and time and going through trial and error, I learned a little more about my taste in what I like or dislike. Previously, I didn't feel bad for the times I lost due to Covid-19. But after the UGP program, I realized that I was turning a blind eye to those precious times like soar graph. Until now, I have been living a stable life without variables, and I have been guessing that traveling will only be tiring. Of course, meeting people and going to new places use a lot of energy, but it's well worth it. It was a precious time to develop not only my knowledge but also my social aspect.



Picture 1) Group Presentation : Team Tyrni



Picture 2) At Nuuksio trip



Picture 3) Group photos of 2022-Winter UGP

- ❑ **Name:** Sumin Kim
- ❑ **Host University/Institute:** UNIST
- ❑ **Participating Program:** UGP - Aalto University
- ❑ **Program Period:** 2023-01-15~2023-01-28



On the first day of the UGP program, after the Welcome dinner, I went for a night walk with other people. After having time to get to know each other over dinner, we felt closer and looked forward to the next day's class.



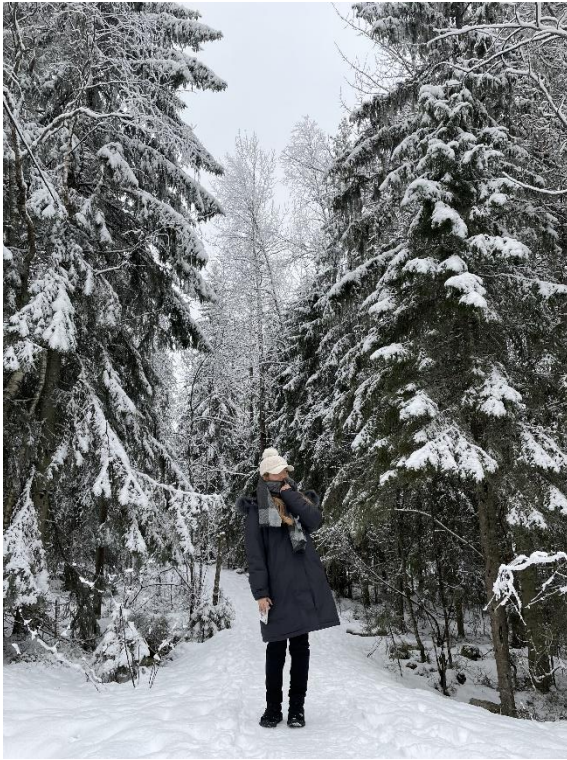
It was the coldest day with a lot of snow and strong wind during two weeks I stayed in Finland. Through this, I realized that I was in Finland.

After classes, UGP friends and I went to see the Helsinki Cathedral and it was a very fun experience because of the weather.



A friend said that he wanted to see the sea, so UGP friends and I went to see the sea. Even when I saw it with my own eyes, I couldn't believe that the sea was frozen. I stood on the ice and tried walking and tapping it with my hands. I think that seeing the frozen sea is the only experience that can be done in Northern Europe, so it was very impressive.

It was the last day of Teacher Da-yeon Shim. UGP students gathered in one place and wrote a rolling paper for the teacher and delivered it to her. Then, the teacher gave each of her student warm words of encouragement and she really made our heart warm.



Nuukio National Park was the most fun and most Finnish place I've been in for two weeks. I climbed the mountain for about an hour, and the scenery was so beautiful that it was full of snow everywhere I could see. And we ate grilled salmon and potatoes for lunch, which was really tasty. I was excited and happy all day. On the last day of UGP, our team thought how to make drug addicts voluntarily and easily accessible to



treatment from a negative view of drugs with SDG3. As a result, a QR code was printed on the package box using the Coupang distribution network, and when the QR code was taken, a link to the treatment manual was linked, and furthermore, a system that ensured anonymity for AI doctor to treat was

announced. It was the first time I had a group presentation. So, I think it was a good experience to listen to the presentations of other groups and to improve my presentation skills while watching our group member's presentations.

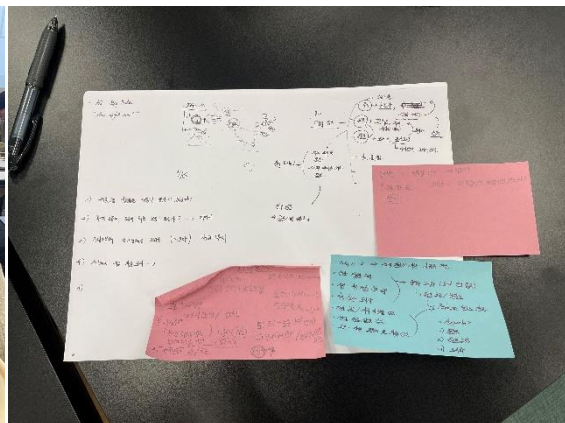
- ❑ **Name: Siyeon Kim**
- ❑ **Host University/Institute: UNIST**
- ❑ **Participating Program: UGP - Aalto University**
- ❑ **Program Period: 2023-01-15~2023-01-28**

When I first arrived in Finland, I was afraid of the unfamiliar weather and the dark sky. While looking forward to the two-week program, I was a bit worried at the same time.

On the first day of the program, I went to Aalto University, participated in the welcome session, and took a tour of the campus, listening to how the school building is structured and what it means. It was interesting that the design



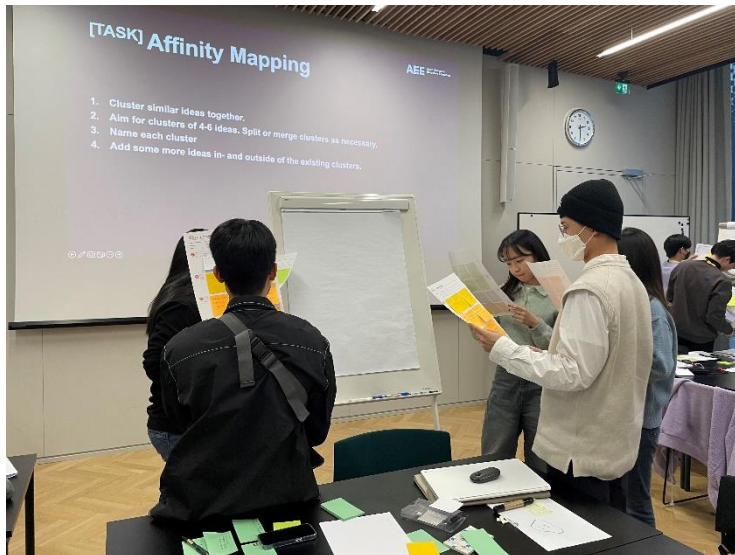
building, business building, and engineering building had completely different feelings, and it was fun to find out the difference. Small-scale



exhibitions in the corners of the university also brought life.

Until I participated in the Introduction to team projects class, I had no idea what SDG was. It was a truly meaningful experience to find out what a sustainable city is, what efforts must be made to achieve it, and what efforts

different countries are actually making.



The ideation lecture was really a fresh shock. I always prioritized taking a long time to understand accurately when I was studying, but I found that if other ideas were added based on ideas that came to

my mind quickly, I could make them attractive enough. In addition, I realized that the more I share my ideas with as many diverse people as possible, not just my own ideas, the more others can fill in the gaps I missed and create more solid ideas. The phrase “kill your darling” left an impression. This is



because it was the first time I heard someone say to boldly throw away what they thought was a valuable idea. Thanks to this, I was able to successfully finish our team project presentation based on the ideas that came out in this class.



The class where I was able to learn the Finnish language and culture was a very valuable experience. Thanks to this, I was able to know the culture of the Finnish people, and it was nice to be able to experience it firsthand while touring other

cities in my free time. Whenever I shouted "kittos" to say thank you in Finnish at the market, I felt happy to see people responding brightly, and sometimes, when I paid, I felt proud when I understood the number the clerk said.



It was a pleasure to eat reindeer meat and salmon soup, a traditional Finnish food, at the welcome party on the first day. I kept feeling like I was taking an English level test because it was unfamiliar to communicate with Finnish teachers in English, but I

kept trying to get used to it. Still, it was fortunate that we were able to gather up the courage and communicate in the latter half of the program.



The experience of seeing snow at nuuksio national park is also unforgettable. I think it was the best opportunity to experience Finnish culture. It was wonderful to see the whole world covered in white with so much snow. While following the guide, listening to explanations about the park and various animals, and eating salmon steak and potatoes, it seemed that I had experienced camping even for a short time.



I am also very grateful to teacher Da yeon, who took care of many UGP students during the first week and continued to notify and take pictures. Although it was a pity that we couldn't do all the programs together, we were lucky to be together even for a short time.

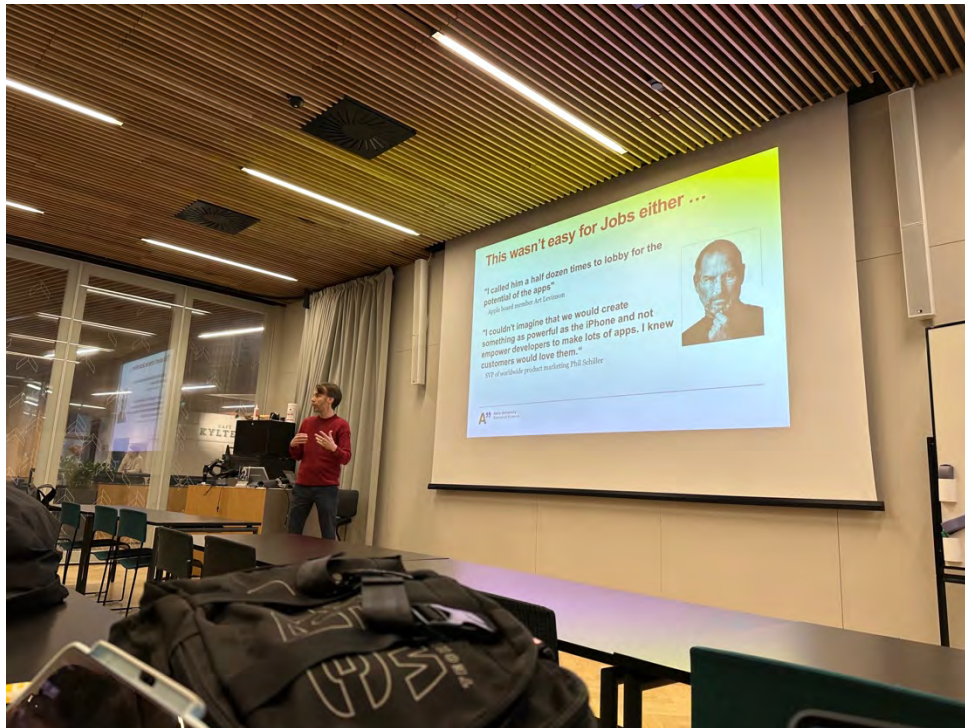
□ Name: Younguk Kim

□ Host University/Institute: UNIST

□ Participating Program: UGP - Aalto University

□ Program Period: 2023-01-15~2023-01-28

The reason why I first applied for this program was just to meet many people and learn about the culture of other countries. I applied without hesitation for this experience to be of help to me. Not only it was thankful to pass these programs, but also I got more intense impressions and feelings than I thought. Furthermore it was a great opportunity to learn about AI and big data while learning a lot of new friends. I will explain how it was good to me and some feelings as my opinions.

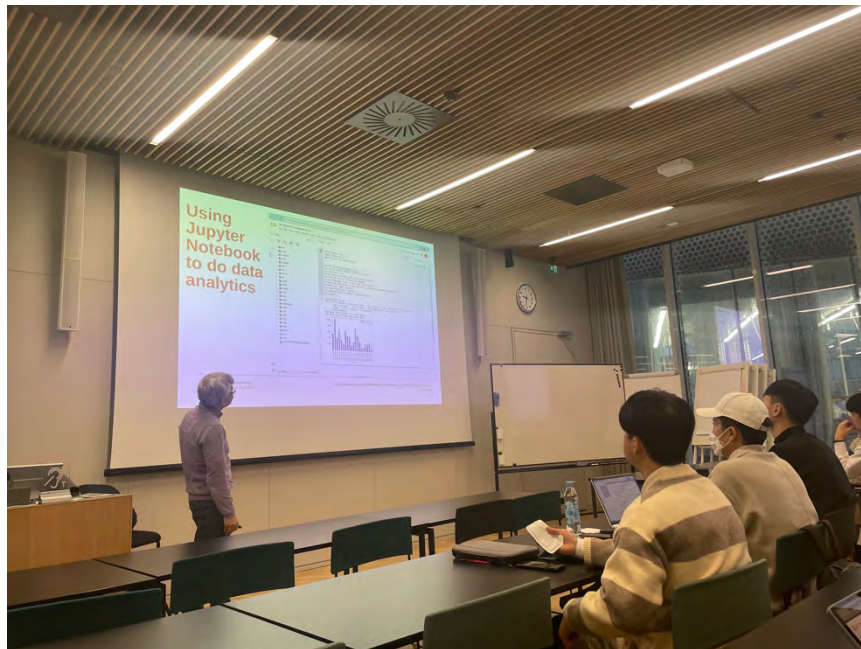


On the class of data, we learned more detail about digital twins and strategic management of technological innovations. Business is still worked with physical skills, so we need to combine digital and physical method. They interact with data, control, etc. From sensor technology and control systems. One of the common examples of connecting between digital and physical system, is that artificial intelligence of the robot which has arms and the brains. And the IoT and smart connected products could also be examples. We studied an example about Boeing 737 MAX crashes. What's the reason? It was the system which just relied on two sensors (angle of attack sensor). And one of the sensors had broken, which we could called as physical fault had made an error to the airplane system and finally caused crash of airplanes. Other examples of the digital error causes problems are the digital dependence could make a prejudice of information and they bring us a non-necessary information. Furthermore, when the server attacked by or make an error, it could cause a huge chaos of all the field we have worked in, played in and so on. In fact, in 2022, the kakaotalk server has crashed by physical burning of the

building made a huge impact on Korean in many ways. In this lecture, we learned about how the digital related to our lives in terms of physical system, and platforms.

In two classes of Finnish culture and the language, we have learned about how Finnish people lives and how they communicate, and where they live. From the first class about the lecture, professor told how to speak the Finnish words, for examples, there are two same alphabets coming right next to the first words such as number 5 as 'viisi'. It has two linked words of 'i'. It was surprised to me because I had never heard about it and little bit difficult to pronounce Finnish words. Moreover, we could receive information about the history about Finland. They are conquered by the Swedish Emperor for a long time ago, and they also conquered by Russia. This situation is little bit similar with Korea and I can feel how the Finnish people felt like. And also, we learned about the big cities in Finland such as Turku, the previous capital city of Finland when they are under control of Swedish Emperor. The Rovaniemi is famous city of Santa, and it has Santa Claus village.

And at second lecture of the Finnish Language, we learned more detail about how to read the number in the range of 10 to 100. And she showed the Finnish favorite cultural food and snack. Otherwise, it was interesting to me because I always dream and want to know how the foreigner lives, what cultures they have, which food do they eat. These lectures are meaningful to me, and this is why I wanted to go UGP program.



In the class of big data and its platform, we learned how the data comes from all our lives process, store and finally how we could use these big data. To put it in simply, there are two models of how to process a lot of data. They are

divided into the place where data are processing like center or peripheral. From this class, even though it is not my major or interesting field to me, but I could experience about the big data, how they processed, and lastly when I realized these kinds of data processing are applied in my real life, I was really surprised to the advanced technologies. It was a great experience to me.



Many students mentioned at the feedback that they could feel funny when we went to the Nuuksio National Park at Espoo. I also think agree to these friends. The activity we had contained lunch and walk around the national park. Whole trees and the whole land are covered with snow that I could felt I actually went to the Northern Europe. And the roasted salmon and potatoes made from wildfire tasted great to me. I ate a lot of menus of salmon, but it was better than before. I think that this activity program is great to us because we could learn and do how the Finnish people live. It was impressive moment to me, too.



And my best of the best travel was traveling to catch the aurora in Ivalo. I hesitated to decide that it is fine to go there because there are some condition that we could see aurora. We also have to consider about the money. But this is the chance to go to catch the aurora I think and we were planning to go Ivalo. I



could feel more free and exciting that I could travel to another city. When we arrived at Ivalo, it looks quite cold and quiet. The village we lived was inside the forest thought that we could watch the aurora. But it is really hard to catch it. The weather and the solar wind index, and the light of moon and peripheral are important factor to watch aurora. And all the conditions are perfectly matched to us. We could feel the wonder of nature, and we were so excited that we enjoyed the aurora by taking pictures of each other. About 10 minutes later, Aurora disappeared, and I was grateful that I had seen it. Also, we went grocery shopping on the Ivalo, cooked rice, grilled barbecue, and played really well among ourselves. On the second day, how lucky we were, we could see the aurora more clearly and in layers. I was also grateful to Unist for allowing me to see this scene. It was one of the best scenes in my life. If there are people who participate in the next program, I would like to recommend it.

There were so many good things about this program, and it was good for me. However, there were some improvements needed. I thought I would learn contents such as computer programming or coding and how to apply them to my major because it was a class about AI and big data, but I felt that was a little

insufficient. In addition, as the professors continued to change, I felt like I was learning only shallowly separately. I felt that liberal arts classes, Finnish culture classes, or active classes in between were really good. I wish if there's a chance to talk to students at Alto University, it would be great. And I thought that I wanted to make foreign friends, but I was a little disappointed that I didn't have such a time.

To summarize all the contents, I was able to learn a lot from this UGP program. First of all, I was able to learn some things about artificial intelligence programming, and I was happy to learn Finnish culture, and it was good to have active classes in the middle. In addition, these programs were not just aimed at learning, but were able to get close to UNIST students from various departments, and learn a lot from the group activities by helping each other.

I am very thankful which gave me this chance to learn a lot. And I really, really want to recommend that please apply to these programs.

- **Name: Jeean Kim**
- **Host University/Institute: UNIST**
- **Participating Program: UGP - Aalto University**
- **Program Period: 2023-01-15~2023-01-28**



I remember the first time I told you that I was going to participate in a program at Aalto University in Helsinki. Over the smartphone, my parents congratulated me on my success. At the same time, he asked what Aalto University is doing and what you are going there to learn. Before applying for the program, I scraped together the memories I asked around. I had a clear aim of experiencing the different cultures of the people of Europe with this programmer. However, I did not apply for the program with the idea of learning

something. That's when I came to think that I should get anything from this program.



I can't say that the content of my classes at Alto University has always been fun and exciting. Some classes actively participated in each other, while others were sleepy and could not hear English. There were familiar classes like big data and AI, but there were also unfamiliar lectures such as energy and idea design. Under the firm will to learn something, I tried to listen while enduring the pouring drowsiness.

I don't think my ideas are original and brilliant. Rather, what people around me suggest is more creative and ingenious. The program at Alto University is organized to design projects that achieve the values pursued by SDGs based on the two-week lecture. I tried to

listen to the thoughts around me well based on what I learned.

A good idea was suggested, like friends with outstanding competence. It is much easier for me to accept other people's stories than to ask the other person to listen to my own story. And I find a much better insight in the stories I hear. For a moment, I imagined designing an idea that I thought of as a project. When I first came up with the idea, I might have thought it was fresh, but now that I think about it, it was difficult to raise my head because it was so childish.

I think what I saw as growing up the most on my own in this program was to actively listen to other people's opinions and try to find an arbitration point. I met many new people. I was able to experience a new culture. Crucially, it was a program that I could

learn a lot.



- ☐ **Name:** namgeonwoo
- ☐ **Host University/Institute:** UNIST
- ☐ **Participating Program:** UGP - Aalto University
- ☐ **Program Period:** 2023-01-15~2023-01-27

Three experiences

This ugp activity gave me various experiences in many aspects, including European (Finland) cultural experience, various activities at Alto University, and bonding experience among many senior and junior colleagues.

The UGP program is organized as a program that allows you to travel freely from 9 a.m. to 4 p.m. within Alto University after that, and to experience Finnish culture for a longer time on weekends.

I learned a lot about Finland through this opportunity. This is my second trip to Europe, and through my first trip to Europe, European countries arrived in Finland with the experience of poor security. That's why I went around the street more carefully, keeping things and looking around. However, after living in Finland for two weeks, I broke the idea that all European countries have bad security. The security in Finland was better than I thought, and I could enjoy the trip comfortably.

Also, Finnish language and English coexist in Finland, but I didn't feel much pride in my own language like France. The Finnish people felt like Japanese when they answered comfortably in English.

When I first came to Finland, I participated in the trip thinking that I could see aurora around Helsinki. However, Finland was much bigger than I thought, and I found that the area where the aurora was visible was only visible in the upper part of Finland. It was a moment when I understood why it was hard to see the aurora, and although I didn't go to the barber road, I couldn't see the aurora,

but some of the people who went to the barber road saw the aurora and took pictures, so I was vicariously satisfied.

We stayed around Helsinki, the capital of Finland. Therefore, I thought that I could experience a lot during the period of two weeks, but I realized that Helsinki is a smaller city than I thought. I've been working hard around Helsinki for a week, and since the second week, I've done almost all the activities I've been doing in Helsinki, and I've been to various areas such as Thurk, Suomenlinna Island, and these things have made me experience more.

But there were also some inconveniences in Finland.

Finland is also a European country, so all the food was salty. No matter how delicious the restaurant was, it was hard to enjoy the food properly because it was salty for Koreans. Also, it was burdensome to eat at restaurants because prices in Finland were 1.5 times higher than those in Korea. One of the ways that the maintenance crew came up with was to buy food at the mart and eat it at the accommodation. Unlike restaurants, you could buy simple foods at a cheap price at the mart. It was even less seasoned than a restaurant, so I think it tasted good to Koreans. Fortunately, I have been exposed to Finnish traditional foods such as reindeer meat and cheese, so I ate it cheaply without much dissatisfaction with buying food at the mart.

My activities at Alto University were also very helpful to me. My most memorable activity was the Nuxio Field Trip. It was because it was the first time I rented a bus and visited a natural park to learn about traditional culture and tour.

Also, it was interesting to learn Finlandung language at school. I didn't really have much interest in Finnish language. However, after learning it, I became more interested in greeting the locals in Finnish, and I was able to concentrate more on the second class.

Finally, there are relationships between people.

I was the first person to know everything except one person during this activity. Therefore, I was worried about this activity, and I wondered if I could adapt well. It was awkward at first, but the supporters tried hard to resolve the awkward relationship, and thanks to that, we were able to get along to some extent. And I found out that there is no one I don't like if I try to approach first and get close to them. It was very good to have the experience of getting close to strangers during this week's activities.

It is a great honor to have such various experiences, and I would like to participate again if there is a good program next time.







empty all their coffee, but in Finland, it came to the fact that this system can be established has a very high level of civic awareness.



In addition to the classes, there was a lot to learn in Finland. The most impressive activity was a field trip to Nuuksjon National Park, where we could see the most Nordic sights. The long towering trees, the pure white snow piled up on them, and the endless white sights were enough to impress me and remind me of the fact that I came to Northern Europe once again.



In addition to these classes, I was able to wander around Helsinki in my free time, and I could feel a lot of Finland here as well. First, the Finnish traditional sauna, Löyly, was

the most memorable, and the experience of soaking in the Baltic Sea immediately after enjoying the traditional Finnish sauna seems to be unforgettable. The very fact of immersing oneself in the Baltic Sea was impressive, and the tingling sensation on the skin after entering the water close to 0 degrees was exhilarating.

In addition, eating Salmiakki, a traditional Finnish candy, visiting the Artek store founded by Aalto, visiting Suomenlinna Island, which is registered as a UNESCO cultural heritage, and walking around the Stockmann Department Store with snow that can't even be seen, and the experience of visiting Hans Op De Beeck's art works at Amos Rex, Helsinki's famous art center. All of these were valuable experiences that made Finland unforgettable.



During the two weeks of the UGP program, it was a series of new experiences that I had never experienced in Korea. Snow falling all day, weather changing every moment, the sun that did not rise all day, and the day when the sun rose very rarely and made me feel very good. All these experiences came to me as a precious experience that I will never feel again in my life. Even before I came to Finland, I wondered if I would ever come to Northern Europe in my life, but after a two-week journey, I kept thinking about what Finland would look like in midsummer. Returning to Korea with these precious memories, I will use them as a driving force to move forward.

I would like to express my gratitude to all the people I met in Finland, my friends who did the UGP program together, teachers 심다연 and Sara who supported us throughout the program, and the instructors who gave valuable lectures.

☐ **Name : Jaehyeok Oh**

☐ **Host University/Institute: UNIST**

☐ **Participating Program: UGP - Aalto University**

☐ **Program Period: 2023-01-15~2023-01-28**

My first impression of Aalto University was that the building was aesthetic. Buildings designed by world-renowned architects (Alto), all buildings are aesthetic, worthy of the reputation of one of the world's top 7 design universities. It may be because I am interested in architecture and major in design. That's why I was impressed from the school tour. Looking at the mirrored structure of the design department building or the stairs connecting the floors of the building crossing the space, I thought that it would be more fun to go to school because there were more ways to get around the school. Today, this route, tomorrow, this route, I was very impressed with the scenery of the school, which felt different every time I went to school in various ways. Just the thought of taking classes at a university like this made me feel proud. After the school tour was over, the lecture began. The lectures were mostly about big data and AI, and lectures related to the project were also given. All instructors taught with enthusiasm and encouraged students to participate. The content of the lecture was good, and it was obvious that he prepared with care for our level. And when time passed and Friday came, we went to the Finnish National Museum. It was a meaningful time to see the history of Finland at a glance while looking at the relics. Everything was amazing and I took a lot of pictures. And it was the 2nd week, and on Monday, I went to Nuuksio National Park. The day I went to Nuuksio National Park was cloudy, so I was actually worried. It was because the image of Nuuksio National Park that I found on Google was clear and sunny with a green forest spreading out. However, contrary to expectations, the leaves had fallen off due to the snow that had fallen for several days, and the branches were covered with bright snow, and the snow that had not melted for several days was thickly piled on the ground. The pure white forest created by these two gave me a different impression from the forest I was thinking of. It felt like I was in a frozen wonderland. All of my friends were busy taking pictures, probably seeing this for the first time. In particular, the frozen lake and white forest seen from the observatory were very impressive. It felt like entering a fairy tale. And the last presentation on the 27th was all neatly finished, so I was relieved that it seemed to finish UGP without any problems.



But there were also some things that were disappointing. In the past, other schools have done similar activities, at that time, school students were included in each group and we traveled around the city to find problem and solved it. At that time, it was good to be able to look around every corner of the city, and all the students actively participated in that they could solve realistic problems. In contrast, in the case of this UGP project, activities related to the project were intensively conducted only in the first week, and the rest was conducted in a lecture format, so it is true that student participation was low. In addition, classes such as big data were difficult to understand due to their high level of difficulty. From now on, it would be better if it was a project-oriented program.



So, the experience of taking classes in a new environment in another country was new and good. It was very awkward at first to talk, get to know each other, and travel together with strangers, but now we've become so close that it's regrettable to break up. The UGP is an opportunity that I only get once in UNIST, but it was completed without any problems from beginning to end, and I think it will be a meaningful and memorable memory for me.

- ☐ **Name: LEE GEONMOK**
- ☐ **Host University/Institute: UNIST**
- ☐ **Participating Program: UGP - Aalto University**
- ☐ **Program Period: 2023-01-15~2023-01-28**

Finland with everyone

I entered Finland on January 15. The sky was full of clouds and it rained. I took a rest at the hotel to participate in the program the next day without thinking of leaving the city.

On Monday, January 16, the program began. I looked around aalto University with explanations from the staff. The school was beautiful as it had the name of a famous architect. Buildings were separated by departments, and the colors and designs set for each department were impressive. After looking around the school like that, the afternoon class began. It's time to select a team project topic. I received the team name Korvapuusti. It is the name of Finnish bread, but the pronunciation was cute. the topic is 'sustainable economic growth and employment'. It's a difficult content, but i can do it with your team members. For dinner, We went to the restaurant that teachers in the program are reserved. I ate wine and traditional Finnish food. The mood of the restaurant was nice, and I talked a lot with the people of the ugp. Salmon soup, reindeer meat, and traditional cheese were all delicious. After finishing the meal, I felt sorry to go back to the hotel. I walked the streets of Helsinki with people who felt the same feeling as me. We went into a cafe with a few people and felt the night of Finland.



The next day, it snowed in Helsinki. The winter in Finland was wonderful. I went to see Helsinki Cathedral after Finnish lecture and team project class. The extremely tall and white building suited the snowy weather. I took a lot of pictures. The dinner was also good. I went to a restaurant called 'the tray' and ate fried pork ribs and wine sherbet. Even now that the program is over, it was one of the top five foods.

On January 18th. The morning class was interesting. This is because I used an ai picture that draws a picture when I write a sentence that expresses a specific situation. The goal of the class was to draw a picture connecting Korea and Finland. I submitted a painting with an aurora in the night sky of Seoul. Today is the day when there is a get-together between the teacher who teaches the ugp program and the ugp supporters. We went to a restaurant that sells Korean food. The Korean food was so delicious. And we had a deep conversation with the teacher and looking around the city together. She has a lot of affection for programs and ugp students.

On January 19th, I took a big data class in the morning. It was a difficult content, but the professor was passion so he was cool. Today is the last day of Teacher Shim. I bought rolling paper and filled it with all the ugp students. I wrote down the moment I was grateful to teacher. Everyone gathered in the social room of the hotel and talked a lot. The teacher gave advice to each of the 25 students.

Teacher is going back to Korea tomorrow morning. At 11 p.m, everyone went back to their rooms. It's a warm night.

On January 20th, I went to the Finnish National Museum in the afternoon. It was good to learn the history and lifestyle of Finland. The next day is the weekend, so I searched where to travel. I will go to sauna and tampere. I fell asleep expecting it.

On January 21st, there were students who went north to see the aurora. They showed the aurora picture in this morning. I sincerely congratulated it because it was unusual. I booked a train to tampere in the morning. I went to the Moomin Museum. deep, warm and cute Moomin. he was attractive.

On January 22nd. I had a nosebleed. It's because I've been overdoing for the last week. I decided today is my day off. I went to the sauna I reserved on Friday. It is a method of making steam by pouring water into a hot furnace. So I warmed up in the sauna for 30 minutes. And I enter the sea in front of the sauna. I repeated it five times. The body has come alive. I came back to the hotel early and rested for the rest of the week.

On January 23rd, I went to nuksio national park in the afternoon. It is a place with many trees and snow. I could see winter in Northern Europe. We ate grilled salmon and potatoes in a big tent and ate pancakes. It was more delicious to eat in a cold wind. Then I went up the mountain. I saw the forest surrounding the lake. Everything is white. The appearance of nature without any human touch is touching.



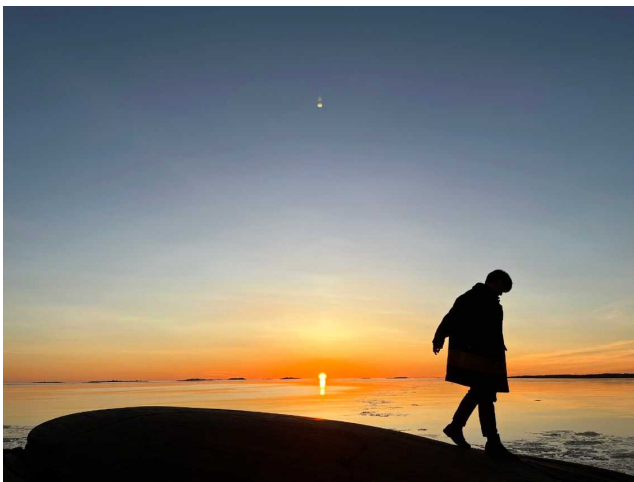
On January 24th. I decided to interview the ugp students because I wanted to record my trip to Finland beautifully. Today, I interviewed four people. "When was the best moment of your trip to Finland? How was the program?" etc, I felt thanks for thier sincere response to the question. I went to Kamome restaurant which was in the movie. It sells Japanese food.

On January 25th. Today is the last day of class. From January 22 to today, all professors gave advice for the team project. I got a lot of help. In the evening, I got together with my teammates to prepare for the presentation on Friday. We planned a program that users can experience a job on Metaverse. When people without jobs gain experience with our programs and get jobs, the number of people working increases. Then it will be leading to economic growth. Each person wrote a script, made a ppt, and prepared a presentation. Thanks to everyone's cooperation, we were able to complete all the preparations.

On January 26, I went to Turku, the old capital of Finland. I arrived at 11 a.m. by double-decker bus. I had lunch at a traditional market. A Finnish grandmother who was eating salmon soup looked at us warmly. The sky was really clear. I went to the cathedral, went to the museum, and went to a beer brewery that sells schweinhaxe. It was a satisfying meal from lunch to dinner. I came back to the hotel and had a rehearsal for tomorrow's presentation.



On January 27, the announcement of the five teams began. Everyone worked hard for two weeks. It was just a great presentation. We evaluated the program and greeted the teachers who have guided us. I was sad that I couldn't see them from tomorrow. The official schedule of the program is over. I bought souvenirs with my friends in Helsinki. I saw the sunset in suomenlinna. The sky was clearer than any other day. Seeing the sunset, I realized that my trip to Finland was over.



The trip to Finland was always with the students(now they are friends) and teachers who came with me. So I wasn't lonely. There are only happy moments left.

- ☐ **Name: JuYeop Lee**
- ☐ **Host University/Institute: UNIST**
- ☐ **Participating Program: UGP - Aalto University**
- ☐ **Program Period: 2023-01-15~2023-01-27**

New experiences and unforgettable memories

I proceeded with my college life to feel and experience as much as possible. It has been three years since I couldn't travel abroad due to COVID-19, so I missed traveling abroad, and now that graduation is just around the corner, I applied to the Aalto University program to make unforgettable memories, and this experience became unforgettable memories.

I was able to learn a lot about Finland's beautiful nature and its culture, and I felt once again that learning a new culture was fun. And I was able to meet new friends, share each other's interests, share new memories, and get to know each other more easily and quickly than in Korea.

When I first came to Europe on the first day, I could feel that I really came to Europe when I saw Finnish people who have a very different building style and average height than Korea. And I went to school, listened to explanations about Aalto University, went around the campus, thought about UNIST and other things, and thought about the advantages of Unist and the advantages of Alto University. In particular, what I felt while listening to Aalto University's class was that students were actively participating in the class by discussing and presenting with their friends through Exercise questions. In fact, there was not much content related to discussion because the main purpose was knowledge transfer rather than participation of students in engineering-related classes in Korean universities, but I learned more about learning in Finland, and I thought it was a method to introduce in my school.

And the food was also very delicious. I knew Finland was famous for reindeer meat, so I really wanted to taste it. And on the first day, I had dinner near Kamppi Station, and at that time, I could taste the Finnish set meal while tasting cheese with salmon soup, reindeer meat, mashed potato, and cloud berry sauce. It was a very precious time to eat reindeer meat, and it was a fun experience. It was also a good time to have lunch every day at the student cafeteria and check what Finns usually eat. I was curious about what other countries usually eat for their food, so I was able to experience the culture of other countries while eating at lunch. And in Finland, there were a lot of potatoes, so I could see that there were a lot of foods using mashed potatoes and potatoes, and I could see that there was a lot of respect for Vegetarian. When I went to many restaurants in Finland, I could see that there was a vegan-only food that was hard to see in Korea, and it was impressive that I always asked if it was Vegetarian or Glutamine free milk.

Also, Finland's natural culture was amazing. On the second day, I went to Helsinki Cathedral on a snowy day, and the snow piled up at night was very beautiful. It was a scene where the word "This is Finland" came out naturally. Also, when I went to Ivalo to see the aurora, I will remember the experience of waiting for the aurora all night and seeing the aurora at 7 a.m. the next day, and seeing the stars together on the roof will remain in my memory for a long time. It was very touching to see the snow-filled forest in Nokshio Park and spread out the vast forest.

The past two weeks have been unforgettable. It was the first time I had traveled this long in one city, so I could know more deeply, a lot. Also, I hope to meet many good friends and continue this relationship for a long time.





- ☐ **Name:** 이주찬
- ☐ **Host University/Institute:** UNIST
- ☐ **Participating Program:** UGP - Aalto University
- ☐ **Program Period:** 2023-01-15~2023-01-27

On the first day, I arrived at the accommodation, left my luggage, and went out to see the scenery of Finland. I went out with anticipation, but I was embarrassed by the worse weather than I thought. Snow fell from many directions, and the surrounding landscape was bleak. However, I quickly adapted to this place and got used to the hotel's vicinity while taking a walk around. There were not many restaurants open on weekends near the hotel, so I took the subway to downtown Helsinki. As I came to Helsinki, I wanted to eat something special, but I searched and went there to find a restaurant that serves delicious reindeer steak. It was my first time experiencing meat, so I wasn't used to the scent, but it was very delicious. It was a unique experience of eating meat. On Monday, I finally went to Alto University. As soon as I got there, I was very surprised. Because the aesthetic design of the building was very pretty. It was new because it was a design that could not be seen in Korea. Later, I heard that Alto was designed by a famous Finnish designer named Alto. There was a campus tour in the morning, and I was very grateful that the guide came and kindly walked around Alto University to explain. There are many private spaces and discussion spaces for students to use freely here. I had a school meal for lunch and it was very new. It was a pity that I could not eat school meals at the student price because I did not have a student ID. I'd like you to issue me a temporary student ID. It occurred to me that There was no student discount and it was over 12 euros when I ate it as an outsider. In other words, he paid 16,000 won per meal. It was such a waste. However, I was satisfied with the food Finnish students ate and thought positively. After taking the class like that, it was 4 o'clock, and I couldn't just stay at the accommodation, so I went out to downtown Helsinki. Helsinki Cathedral was very grandly centered, so it was cool.

Also, I liked this place because the subway was very good. The subway was very clean and the layout time was quick,



so there was no big inconvenience in moving. It took half an hour to travel all parts of Helsinki. The structure inside the subway was also very unique. I was very satisfied because it was a structure where I could sit comfortably and go. Once, I went to the sea of Finland after class. It was quite rough and cold because I got off the subway and took a tram and had to walk a little longer to get there, but I could finally see the frozen sea when I arrived. It was very cool at a glance. It was a very fun and meaningful experience even though I went there with UGP seniors and friends and took pictures. I had never climbed on the sea of the end of my life, but I had a new experience this time.

It was my first weekend in Finland, so I wanted to go to other parts of Finland other than Helsinki. So I gathered people who have the same meaning and went to Tampere together with 6 people. It was a city of attraction different from Helsinki. The structure of the building and the shape of the tram were different. I traveled for two and a half hours by train and arrived there and took pictures of the

surrounding scenery. And I went around many museums there. I went up to the Spy Museum, the Lenin Museum, and the observatory. I was tired from walking there all day, but it was good to have such a wonderful experience. I had dinner at the Tampere restaurant and went to a local pub. I asked for the most famous beer in Finland at the pub, but when I got it and tried it, it wasn't that delicious. The beer tasted salty. However, I thought this was also a new experience and took it positively. And I went to a pizza place in Tampere and there were many different kinds of pizza. I ordered spicy pizza and salmon pizza and it was very delicious but very salty at the first bite. People here seemed to eat food generally salty. I heard a lot of Koreans eat too much sodium, but my thoughts changed when I came to Finland. Koreans eat food blandly. But Finnish bread was delicious. The bread was not salty and cheap, so I bought it a lot while I was in Finland. I heard that Finns also love bread and potatoes. In fact, it seems that all foods are accompanied by potatoes. Two weeks in Finland was romance itself. It was cold but romantic, so I endured it, and I ate it because the food was salty but romantic. However, in the Alto University class, all the teachers took care of us passionately and tried to teach us one more thing, so we were able to take classes passionately and learn a lot. Also, I am very grateful to Shim Da-yeon, who worked so hard for this program and always took care of us in Finland.



- **Name: Chang Jun LEE**
- **Host University/Institute: UNIST**
- **Participating Program: UGP - Aalto University**
- **Program Period: 2023-01-15~2023-01-28**

The winter school at Aalto University is a premier educational institution that provides students with an opportunity to deepen their knowledge and skills in various areas of study. The AI and Big Data class, in particular, is designed to give students an in-depth understanding of these rapidly evolving fields and their impact on society. With the increasing demand for professionals in these fields, the winter school at Aalto University provides students with a unique opportunity to gain a competitive edge in the job market. In this report, we will provide a comprehensive overview of the winter school at Aalto University, with a focus on the AI and Big Data class.

The AI and Big Data class was taught by experienced and knowledgeable instructors who provided students with a comprehensive understanding of these fields. The class covered a range of topics, including artificial intelligence, machine learning, deep learning, big data management, and data visualization. The instructors used real-world examples and case studies to illustrate the concepts being taught, making the material both engaging and relevant.

Artificial intelligence (AI) is a rapidly evolving field that involves the development of algorithms and systems that can perform tasks that typically require human intelligence, such as recognizing patterns, making predictions, and learning from experience. In the AI and Big Data class, students were introduced to the fundamentals of AI and its applications, including expert systems, decision trees, and neural networks. I also learned about the different types of AI, including supervised, unsupervised, and reinforcement learning, and how each type is used in real-world applications.

Machine learning is a subset of AI that focuses on the development of algorithms that enable computers to learn from data and make predictions. In the AI and Big Data class, students were introduced to the basics of machine learning, including supervised and unsupervised learning algorithms, decision trees, and support vector machines. I also learned about more advanced techniques, such as neural networks, deep learning, and convolutional neural networks, and how they are used in real-world applications.

Deep learning is a type of machine learning that uses neural networks with multiple hidden layers to make predictions and decisions. In the AI and Big Data class, students learned about the basics of deep learning and its applications, including image classification, speech recognition, and natural language processing. I also learned about the different types of deep learning algorithms, including convolutional neural networks, recurrent neural networks, and deep belief networks, and how they are used in real-world applications.

Big data management involves the collection, storage, processing, and analysis of large volumes of data. In the AI and Big Data class, students learned about the fundamentals of big data management, including data warehousing, data mining, and data visualization. also

learned about the different tools and technologies used in big data management, including Hadoop, Spark, and NoSQL databases.

The winter school at Alto University is equipped with state-of-the-art facilities and technology, including computer labs, lecture halls, and multimedia equipment. These facilities provided students with a comfortable and well-equipped environment in which to learn and explore the material being taught.

Since this was my first time to travel to Helsinki, Finland, I'd like to write more about my experience and my feeling about it.

I remember the experience in Finnish saunas.

In one evening, I visited a traditional Finnish sauna located in the side of the city. The sauna was simple and unpretentious, with a warm, inviting atmosphere. I was greeted by the sauna attendant, who explained the proper way to use the sauna, and then I undressed and entered the sauna room. The heat in the sauna was intense, but I soon got used to it and began to relax and unwind. The sauna was quiet and peaceful, and I was able to let go of my stress and tensions. After a few minutes, I felt my muscles start to loosen and my skin start to sweat, and I knew that the sauna was having a positive impact on my body. After my time in the sauna, I took a cold shower to refresh and invigorate my skin, and then returned to the sauna for another round. I repeated this process several times, each time feeling more relaxed and rejuvenated.



And also, I remember the Suomenlinna Fortress, a UNESCO World Heritage site located on an island just a short ferry ride from the city center. I arrived at the ferry terminal in the early morning and boarded the ferry to Suomenlinna. As the ferry approached the island, I was struck by the beauty of the fortress, which rose majestically from the water. I

disembarked and began to explore the island, admiring the views of the city and the surrounding sea. I started my tour at the main gate of the fortress, where I was greeted by a friendly guide who explained the history of the fortress and its role in the defense of Helsinki. I was fascinated by the stories of battles and sieges, and was impressed by the strategic importance of the fortress and its strategic location. I continued my tour of the island, exploring the many tunnels and fortifications, and admiring the beautiful views from the ramparts. I was especially struck by the beauty of the King's Gate, with its elegant arches and carved stone work.



Talking about landmarks, I have to say about White Church in Helsinki, a beautiful and distinctive landmark located in the heart of the city. I was struck by the church's unique design, with its stark white exterior and tall, slender tower.

I approached the church from the street, and was immediately impressed by its simple, yet elegant beauty. I walked around the church, admiring its clean lines and classic design, and was struck by the sense of peace and serenity that pervaded the area.

I entered the church and was greeted by the warmth of the interior, with its soft lighting and rich wood paneling. I was struck by the beauty of the stained glass windows, which cast brilliant colors across the interior of the church.

From traditional Finnish restaurants serving reindeer stew and cloudberry pudding, to cozy cafes serving warm drinks and sweet treats, there is something for everyone.

One of the most memorable dining experiences we had during the trip was visiting a local brewery, where we were able to sample a range of Finnish beers and learn about the brewing process. Whether you are a beer lover or simply looking for a unique dining experience, the brewery is definitely worth a visit.



In conclusion, a trip to Helsinki in the winter season is highly recommended for anyone looking to experience the magic of a Finnish winter wonderland. The city offers a range of activities and attractions to suit all interests and budgets, and the local hospitality is second to none.

From its stunning architecture and rich cultural heritage, to its delicious cuisine and vibrant winter activities, Helsinki has something to offer everyone.

- ☐ **Name: Yejin Jeong**
- ☐ **Host University/Institute: UNIST**
- ☐ **Participating Program: UGP - Aalto University**
- ☐ **Program Period: 2023-01-15~2023-01-28**

I went to Aalto University in Espoo, Finland for participating in UGP program. I expected to extend my sight during UGP program and continued travel. And I think it was quite successful.

In Korea, my friends map is so narrow. I didn't intend, but my friends are almost in College in Natural Science. So my sight is naturally focused on one way. But through UGP, I met people who study various majors and became friend. There are so many types of people in our UGP members. Someone have studied hard and decided to study more through graduated course, someone tried various activities which are not related with their own majors, and someone dreamed their afterlife with their lovers, friends and family. Through our team member, I could learn their sight and how to focus on other side of my life.(except studying major!) With UGP members, I could be familiar with them so fastly. It was my first time to be familiar fastly like this time. And this experience gave me self confidence to make my life better way.

Through the UGP official program, I especially enjoyed the AI lecture, Nuksio field trip, and Finnish culture and language class.



Finnish culture & language



AI lecture

I think those lectures provided easy concepts and help us to follow the class activities. Finnish language class is littlebit static, but I quite enjoy it.

And I think it was good to have time to be familiar with other UGP members. The final goal of this program is to finalize a team project. I think it is important to be friend for coworking. So having great time with other members is good for our cooperation experience. After returning to Korea, I think we can do something great with friendly UGP members. For next program, I think it is good to have field trip or ice breaking time for UGP members. And we couldn't because of shortage of participation, it will be great to meet and be friend with Finnish student, too.



Nuksio field trip



Welcome dinner party

For last, it was good experience to learn about SDG of UN.

I vaguely have known about SDG before, but I didn't have opportunity to deeply think about the SDG problem and solution. Because we have majors in mathematics, science, or engineering, we didn't care about those problems, too. But it is an important project for human future, and scientists have to participate in this project, too. I think our UGP goal for SDG was so useful and motivative.

My team considered the drug addiction problem for SDG 3. And I could learn many aspects and tries for curing drug addiction. I didn't realize that there are lots of social stigma for drug addiction and sometimes it

is useless for solving drug addiction problem. I could learn more various aspects for problems in the world through this program.



Group working



Final presentation

- ☐ **Name:** Minsoo Jo
- ☐ **Host University/Institute:** UNIST
- ☐ **Participating Program:** UGP - Aalto University
- ☐ **Program Period:** 2023-01-15~2023-01-27

Day 1.



I went to school for the first time. When I first met people, it was a little awkward and exciting on my way to school.



This is a picture of the welcome session. We talked with Sarah teacher and introduced each other. I could hear many stories about Aalto University and the program.



It was the first session of the team project. A meeting was held to present solutions aimed at reducing the youth unemployment rate and economic growth.

Day 4.



A class on Imposter Syndrome was conducted. It was a time to look into the inner side that had not been important. I could realize how important the environment and people are to myself and learn to acknowledge and accept myself.

Day 6.



I visited Nuuksio National Park in Finland. There were various foods such as salmon steak, potatoes, and pancakes, and I could see the beautiful natural scenery. It was also a good experience to hear the teacher's various ways to survive in nature.

Day 9.



I had time to present the team project task that I had been working on for two

weeks. We presented a solution to our goal of reducing youth unemployment and economic growth. The main idea was to use a vocational education platform using metaverse. Metaverse has the advantage of effectively reducing the time it takes from job preparation to employment by reducing spatial and time limits compared to vocational education where actual encounters have occurred.

- ☐ **Name:** 최혁준
- ☐ **Host University/Institute:** UNIST
- ☐ **Participating Program:** UGP - Aalto University
- ☐ **Program Period:** 2023-01-15~2023-01-28

Introduction:

This report provides a comprehensive summary of the study abroad and tourist experience in Finland, which was held from start date to end date. The objective of the study abroad program was to expand the knowledge and experience of the author in various fields related to design, technology, and innovation, as well as to learn about Finnish culture and heritage. The tourist experience was to explore and appreciate the beauty of Finland and its rich cultural heritage.

Campus Tour:

Aalto University is a school that values design elements, and it shows in its beautiful and aesthetically pleasing building. As I walked through the halls, I couldn't help but feel impressed by the attention to detail in every aspect of the campus. The modern architecture combined with the lush greenery surrounding the building made for a unique and inviting atmosphere.

During my time at the university, I had the chance to meet a Korean international student. This was a special experience for me as it allowed me to understand the diversity of the student body and how Aalto University attracts students from all over the world. This was a significant moment for me as I realized that I was part of a community of students from different cultures, backgrounds, and experiences.

Team Project Workshop:

The team project workshop was a unique and exciting experience for me. The facilitators utilized post-it notes and roadmaps to plan and organize our ideas. This was a new approach for me, and I found it to be very effective in terms of keeping the team focused and on track.

During the workshop, we were able to collaborate and share our thoughts and ideas with each other, which helped us to come up with creative solutions to the challenge we were working on. The workshop was a great opportunity for me to develop my teamwork skills and learn how to effectively communicate with others.

Introduction to AI and AI Workshops:

I was able to attend a series of workshops focused on artificial intelligence (AI) and machine learning, which was fascinating. Professor Arno Solin led the workshops, and his expertise in these areas was evident. He introduced us to the basics of AI and machine learning, and then went on to show us how these technologies can be used in practical applications.

I was particularly impressed by the demonstration of an image generation using a GAN and the currently developed NLP algorithm. It was incredible to see how AI could be used to create realistic images using only text descriptions.



Basics of Big Data Analysis:

The basics of big data analysis workshop was led by Professor Hong-Linh Truong. Although the content was quite specialized, I found the information to be very useful. Professor Truong provided a comprehensive overview of big data analysis, including the various tools and techniques that are used in this field.

Although the subject matter was challenging, I was able to learn a lot about big data analysis and how it can be used in practical applications. I appreciated the opportunity

to learn from such a knowledgeable and experienced professor.

Inposter Syndrome Class:

The Inposter Syndrome class was an eye-opening experience for me. This class gave me an opportunity to reflect on my own experiences and determine if I was experiencing any symptoms of mental health problems. The class was interactive and engaging, and I was able to participate in group discussions and activities.

This class was a great reminder to prioritize my mental health and to seek support if I need it. I feel grateful for the opportunity to learn about this important subject and to gain a better understanding of how to care for my mental well-being.

Strategic Management of Technological Innovations:

I had the opportunity to attend a workshop on the strategic management of technological innovations, which was led by Professor Kimmo Karhu. The workshop covered the various strategies that organizations can use to manage their technological innovations and maximize their impact.

Presentation Skill Workshop:

I also attended a presentation skills workshop led by Professor Rinna Toikka. This workshop was designed to help students develop their presentation skills and become more confident in their public speaking abilities.

During the workshop, we practiced various presentation techniques and received feedback from Professor Toikka.

That day was a day full of learning and exploring new things. I had the opportunity to attend several workshops and classes, including the Team Project Workshop, where we brainstormed and discussed our ideas for a sustainable city project. We used post-it notes and drew roadmaps to help us organize our thoughts. It was an exciting experience to be part of such a creative process.



In the afternoon, I attended a class on the basics of big data analysis, taught by Professor Hong-Linh Truong. It was a challenging class, but I learned a lot of useful

information that I can apply to future projects. The class on Inposter Syndrome also gave me an opportunity to reflect on my own experiences and assess if I was experiencing any mental health issues.

Later in the day, I had the pleasure of attending the Strategic Management of Technological Innovations class, taught by Professor Kimmo Karhu. I also took part in a presentation skills workshop, led by Professor Rinna Toikka, which was very helpful in preparing for our final project presentation.

Day 7 was a day of exploring the city and learning about Finnish culture and history. I had the opportunity to visit the National Museum of Finland, where I learned about the background of Finland's ancient history and how it developed over time.

In the afternoon, I went to Nuukio Park, where I had a nature-friendly experience. I ate grilled salmon and potatoes in a hut and was surrounded by the beautiful snow-covered scenery. This was definitely one of the most memorable moments of my trip.

I also had the chance to visit the Helsinki Central Library, which was a very advanced library for a village public library. I was amazed at the level of Finnish culture, and I was impressed by the amount of resources available to the public.



In the evening, I visited the Helsinki Cathedral, which is Finland's landmark and signature. I took in the magnificence of the cathedral several times, and I was in awe of its beauty and grandeur.



I had the opportunity to visit the EMMA Art Museum on the recommendation of my teacher, Sarah. I was able to see various glass crafts and modern artworks, and I was especially impressed by the three-dimensional works of art that could be appreciated from multiple angles. It was a very meaningful experience, and I came away with a deeper appreciation for the art of glassmaking.



Overall, my trip to Aalto University has been a fantastic experience. I have had the opportunity to learn new things, meet new people, and explore the city. I am grateful for this opportunity and look forward to applying what I have learned in my future studies and career.

☐ **Name: Ha JiSeong**

☐ **Host University/Institute: UNIST**

☐ **Participating Program: UGP - Aalto University**

☐ **Program Period: 2023-01-15~2023-01-28**

During the autumn period of 2022, the notice for UGP is updated. Since I studied in UNIST, I have checked and planned where and when to leave and what to do. Under the support of UNIST, I could anything what I want. However, it was uneasy to conduct all my plans. There was a big problem, COVID-19. Because of it, the time when I conduct my army duty came early than I expected and the air road was blocked.

After a period of duty, I planned again. In fact, I considered two options. One is UGP, this one in this time, and the other is exchange student in 2nd semester in 2023. I always adapt to any situations and environments well. Nevertheless, the problem of listening other language is a big wall to me. Furthermore, I like my country, Korea. Besides, there are many reasons.

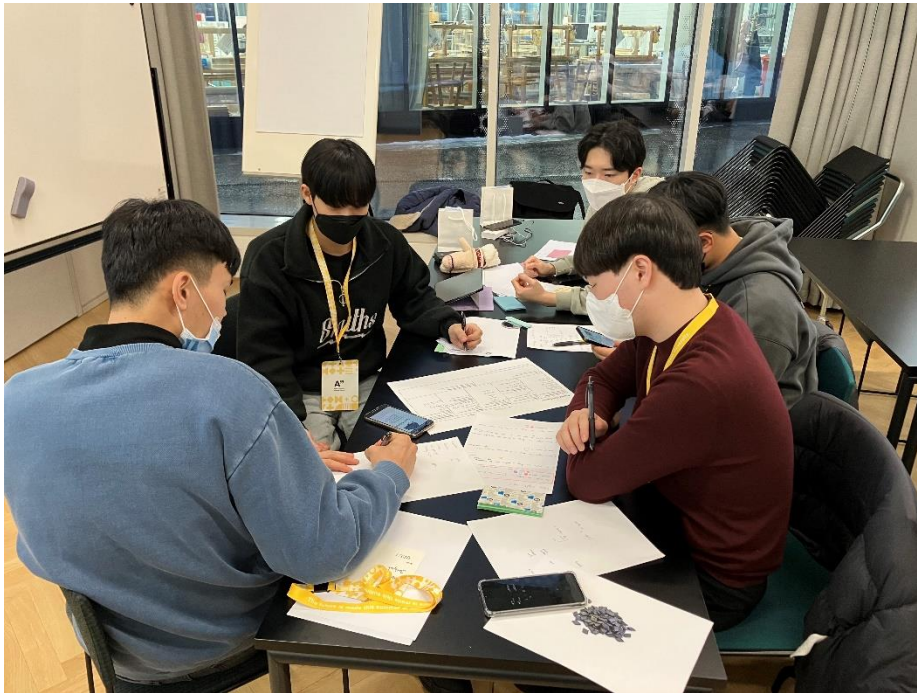
After I checked the join in UGP, I was looking for my friends who joined this program. The number of members is small and I did not know most people. I was nervous and afraid of some points. However, after the beginning UGP, the action of worrying was like fool and stupid. Miss Sim was so kind and helpful for us and Sarah, too. Thanks to their kindness, it was easy to adapt to Finland and Alto university. The members of UGP were so amazing and wonderful. I have never seen kind and smile people like this. I had been busy because of E@U and my personal problem so I do not have hope in Finland. However, thanks to strength of the members, the experiences in this program can be perfect.

In the lessons in Alto University, I think three ways in large. First is about Finland, second is about AI & Big data, and third is the idea to earth problem. In my thought, the last lecture in winter was in 2018, when I became 3rd grade in high school. Two weeks could be an enormous problem to me and AI & Big data is my weak part in UNIST. However, it was fine. Especially, the activities about Finland made us fall in love to Finland. Many of us were happy and interested by seeing Nooksio, including me.

Of course, the AI & Big data was hard to understand, especially Big data lesson. There were many reasons. Most of all, the speed was too fast and the directions of the lecture were too hard for beginners to follow. In the third part, new idea, I was worried about hard to think new things. Following the lessons, the fracture was structured and my team members were so good to make idea and communicate each other. Our final presentation was best of us and the chemistry of us made me feel amazed. Although it was short term, it was enough to be kindly and it was pity for short period.

Thanks to new experiences and studies, I can take many memories and knowledges during this program. I was surprised because the reason I can do like this is I am a UNISTAR

and fortune help me. With many unknown people and places, I am happy that I can take all pleasure memories. Thank you.







- ☐ **Name: Han Ilkyu**
- ☐ **Host University/Institute: UNIST**
- ☐ **Participating Program: UGP - Aalto University**
- ☐ **Program Period: 2023-01-15~2023-01-28**

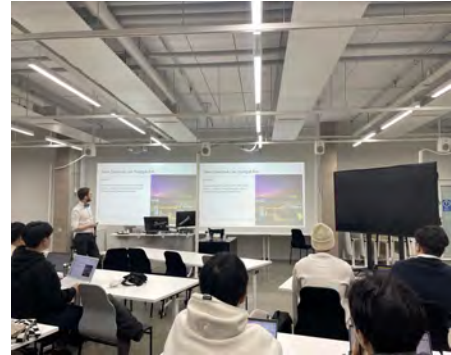
The two-weeks of UGP program was an invaluable experience. It was a rare opportunity to interact with various UNIST students as well as big data and artificial intelligence classes at Aalto University. Every day is still memorable even now, the last day of this program. The campus tour and welcome dinner in the awkward atmosphere of the first day were enough time to get to know each



other. The campus of Aalto University was special in many ways. It was amazing that even though the Business building and the Art building were connected, the lighting color and space were designed completely different, depending on the characteristics of the department. In the case of Welcome Dinner, it was a meaningful time to experience traditional Finnish food. The Finnish language and culture lecture on the second day was a time to learn Finnish, which I could not learn anywhere else. I also improved my understanding by learning in-depth content such as history and grammar. It was especially interesting that Finnish has a completely different language system from the rest of the Scandinavian Peninsula. Ideation Workshop that went in afternoon was also a very interesting lecture, and I was able to know how to create ideas or brainstorm the process and how to have an efficient meeting. In



addition, by relating this to the Sustainable Development Goals (SDGs), we were able to find various global issues and solutions. On the 18th and 19th, we took artificial intelligence and big data classes one after another. Due to my major's characteristics, I didn't have many opportunities to access these subjects, but I was able to grasp the overall contents of the subject through the class. ChatGPT, which I learned at AI workshop, soon became a big topic in Korea, and I was surprised by the timeliness of this subject. Also, for big data lecture, it was first time for me to learn how data are treated systemically.



The product development on Friday focused on finding solutions based on ideas from the idea workshop and was the day when team's ideas



developed the most. The afternoon tour of the National Museum was also very memorable. It was a rare opportunity to see Finland's history with curation, and after the curation was finished, I looked around other exhibition halls in the museum with other friends.

Even on weekends, I toured various tourist attractions and experience places in Finland with my friends. With visiting Turku, which served as the capital under Swedish rule, we also visited the birthplace of architect Alva Aalto. Unlike Helsinki, which is very modern, Turku was a quiet and cozy city and has a lot of attractions, so it remains as a pleasant memory.

The second week of the program went on in a similar way. Nuuksio National Park, which was held on Monday afternoon, was a place that matched the representative image of Northern Europe. We were able to hear explanations about Finland's natural environment and culture while



hiking for about an hour, and I remember it was a time that many students were satisfied with.



On the 24th and 25th, similar to the first week, we took a class to help figuring out problems and solutions based on SDG issues for the final presentation. In particular, the lecture on presentation skill was very helpful because it could be applied not only to

this program, but also to other situations. On Thursday, the day before the final presentation, our team members gathered at the hotel to make presentation materials. We went through the process of cooperating with each other by choosing parts to take charge of, making presentation materials and scripts, and we toured downtown Helsinki together in the remaining time.

On the last day of the program, the official schedule was completed with the final presentation. Studying through many SDG topics of other teams, it was useful to have wider perspective about global



issues, not just superficially, but with deep understanding. After having lunch together, we had individual tour for the last schedule. Me and some of the students went to Suomen Linna Island and watched the fortress that was built in the Sweden empire era, for defending against Russian empire. As we gathered in the lobby in the evening to talk and



greet each other, I noticed that we made a lot of amazing memories in a short time. Through this program, I made many friends and had a special experience than I first expected. I think I'm able to finish the two-week program happily.

- ☐ **Name: Jeong-in Heo**
- ☐ **Host University/Institute: UNIST**
- ☐ **Participating Program: UGP - Aalto University**
- ☐ **Program Period: 2023-01-15~2023-01-28**

Before Departure

I was excited to go to Finland due to the three reasons.

First, it was almost my first trip abroad. Since it was my first overseas trip that I could travel in person and remember, I wanted to try many things that I could only do abroad. I searched the famous things of Finland and studied a little basic Finnish. It has different pronunciation with English in j and y. There was a thing where the pronunciation was changed by attaching a different mark to the vowel. And It has no articles such as a and the. It felt interesting. I imagined having a short conversation with a Finnish person when buying some chocolate in market.

Second, I had a fantasy of northern Europe. The expectation of a quiet and calm snowfield made me excited. I had not seen a lot of snow piled thick in my life. The coldness was worried, but I wanted to see snow covering everywhere.

And finally, Aalto University was heard that it is famous for design. I am majoring in Human Factor engineering, but also have an interest in the design field, so it made me more excited.

In Aalto University

The class was too long. Because I came all the way to Finland, I have to visit a lot, but the schedule seemed to be a schedule that I can digest when I rest at a hotel after class and focus only on school.



AI class in Aalto University

So the bad thing was that even with great professors, I was not able to absorb what they were delivering, and it is hard to keep the will gradually as I took the class.

Nevertheless, classes at Aalto University were helpful for me. The best thing is that I could easily listen to basic concepts that were inaccessible unless I looked them up. There were many things to learn about AI and big data that were difficult to hear because I am not a

major. I reflected on the fact that I was turning a blind eye to these fields because my major was different as an engineering student.

Also, it was good that there were many classes that helped me become a healthy person in society even if it was not a computer science class. When I heard how to



Ideation class in Aalto university

develop ideas, I remembered a time when I was working on a start-up team. There were many overlapping contents with what I studied on my own, and the memories of that time and the passion I had were recalled. I realized that I lived my life wasting my thoughts on the pretext of not having to work, and I became greedy to be more productive and develop myself. The class about Imposter Syndrome was also helpful. I

didn't know the exact term, but I was realizing that concept. I was trying to acknowledge myself and accept it as it is. I could feel the bright and energetic professor cheering for us with her whole body, and I also thought that I wanted to learn such sincerity.

Outside of Aalto University

The best place in Finland was Nuukio National Park during the program. I could see



Nuukio National Park

a dense forest in the distance, and each tree holding the snow was beautiful. It was fascinating when I went in and passed between the thick, white, and clean snow and trees. I experienced an experience that I would never experience again in my life, and I felt an emotion that I would never feel again in my life. The assigned time was short. However, it was a good thing that I have been lain in the snow. While lying down, I could see the sparkling snowflakes sprinkled

from the white sky, and I could feel big happiness. The time in the forest was too short. I really want to go there again in my life.

For my personal trip, Turku, which I went to alone, was the best. It was cold and hard to come back because I lost my way to the bus stop, but empty trees were covered with snow flowers, the streets were cozy, and there were many things to see.

I have been to Espoo, where the university and hotels are located, Helsinki, the center of Finland, and Turku, which was like Gyeongju in Korea. There were many art museums. It was regrettable that the time was short to fully appreciate and look. It was good to have many opportunities to see works that contain messages and intentions across the ages. I could get a glimpse of the Finnish people's thoughts and culture through the museums.



Turku Art Museum

The end of journey

Finnish food was generally salty but to my taste. The most delicious food was salmon soup. In Finnish, it is 'Lohikeitto'. In Finland in Northern Europe, there were many



Finnish salmon soup

'Lohikeitto'

salmon-related dishes, but the soup was not salty, so it was delicious wherever I bought it. It tastes like soup with salmon oil and cream, and it was soft, moderately creamy, and flavorful. It was fun to learn Finnish while

ordering food. I wanted to try the food that Finnish people like and eat a lot. I tried cinnamon roll 'Korvapuustit', reindeer meat 'Poronkärstys', cheese dessert with cloudberry, 'Leipäjuusto', nut tart with raspberry jam 'Runeberg torte', a donut with cream and raspberry cream, and meatballs with the sauce that has cream 'Lihapyrykoita'. It was exciting and fun to learn Finnish, a new language while belonging to Finland. I wanted to speak Finnish better, but I could not speak either English or Finnish properly due to my lack of English skills. I realized why I should learn

English, and how important language is, and I regretted not studying hard.

Finland was an environmental country. The hotel limited the water pressure of the shower in consideration of the environment, and the room cleaning service was carried out only on request. The most interesting thing was that there were towels in the restroom that we could wipe off our hands. Korea is mainly equipped with disposable tissues, but Finland's restrooms had strong towels that could be turned around and reused. It was fun to find such an environmentally friendly culture in a country that blends with the natural environment, and I thought it would be nice if environmental issues were considered important in Korea.



Senate Square in Helsinki

It was winter in Finland while we were there, so the night was very long. The sun rose at the beginning of the class and set at the end of the class. There were many places I wanted to go, but I could not go because they closed early. So I felt that the time I could be active was short but it was such a pretty place and everyone was gentle and kind. I kept thinking that it would be nice to live here for the rest of my life. Finland was a quiet but vibrant, and dark but beautiful country.

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- ☐ **Participating Program: UGP - Aalto University**
- ☐ **Program Period: 2023-01-15~2023-01-27**

I traveled a total of 20 hours to Aalto University in Helsinki, Finland. It took 150 minutes from Gimpo Airport to Tokyo Haneda Airport, stay for five hours from Tokyo Haneda Airport, and took 13 hours from Tokyo Haneda Airport to Helsinki Vantaa Airport. I met supporters of the UGP program and students participating in the program at Vantaa Airport. I took a taxi to go to Heymo1 Hotel, where I would stay during the two-week UGP program. Checking in at the hotel was a problem. Because I arrived at the hotel at 5 a.m. There was a security staff, not a hotel staff. The employee didn't speak English. So I used a translator to communicate in Finnish. After many twists and turns, I finished checking in the hotel. After a short rest, I heard that a Korean teacher had arrived at the hotel lobby. Also, the hotel staff came to work. After that, all students finished checking in the hotel completely. I went out with UGP students to look around the hotel, but it was raining and windy. Despite the use of an umbrella, it was good for nothing. The wind blew so dynamically that the umbrella flipped over and broke. The sea was frozen solid. It was the first day I experienced the bitter cold of Finland.



Figure 1 Frozen Sea and Raining Day

I came into the hotel for a while and warmed up. I went to a restaurant near the hotel to have lunch. I ordered and ate Minced meat sauce (11 euros) at a Katriina restaurant. I experienced Finnish food for the first time. The first impression was very "salty". Generally, Finnish food had a strong seasoning. I means, the seasoning of the dish is too strong. And because Finland's staple food was "potatoes," more than half of the food was full of potatoes. The owner of the restaurant in Katriina didn't know how to speak English. However, I communicated completely using a translator because I had already experienced it. I went to Alepa, which is 5 minutes away from the hotel for dinner. Alepa is a supermarket in Finland. I think Alepa is the representative mart in Finland. I bought a bagel and a large bottle of carbonated water. I bought it because I thought it was water, but it was carbonated water. Who knew to sell sparkling water in a 1.5 litre PET bottle? UGP students and Korean teachers also bought carbonated water because they thought it was water. I searched on the Internet and found that Mineral is written on carbonated water. Also, water is Vesi in Finnish. Another tip is that sparkling water has Mineralvatten on the plastic bottle label and just water has Kallvatten on the plastic bottle label. The hotel breakfast was not bad enough. Every morning, I could choose one drink, one hamburger, one fruit, and one yogurt. There were oranges and

apples for drinks. The hamburgers were prepared in a separate vegan way. The fruits were oranges, tangerines, bananas, and apples. Yogurt had blueberries, peaches, and plain. There was something unusual about the Heymo1 hotel. You have to pay 15 euros in advance to open the refrigerator except for the breakfast refrigerator. It is a system in which when you take out an item in the refrigerator, you pay back to your account after excluding the price of the item from 15 euros. It was very uncomfortable. It's been almost 20 days since I used the refrigerator, but I still haven't gotten a refund. I paid 30 euros in advance because I used the refrigerator twice that day. I actually used item is about 10 euros. I finished the night without a problem. Monday, January 16, was the first day to head to Aalto University. Everyone gathered in the hotel lobby at 8:30 a.m. I couldn't sleep well because I wasn't fully adjusted to the time difference. Nevertheless, everyone safely finished their attendance check. We headed to a subway station called Keilaniemi, 5 minutes away from the hotel. I headed to Aalto-yliopisto, one stop away. This is Aalto University. It was a strange school, but I saw many internal structures on the Internet, so I was friendly and glad. I headed to a classroom called T003. There was a foreign teacher, Kuikka Saara. She did presentation which is "Welcome to Finland and Aalto University (Digital Business, Advanced Technologies and Innovation)". On the first day, there was an overall introduction to the program. And there was an overall self-introduction of UGP students I saw for the first time. Everyone was embarrassed, but they successfully finished introducing themselves. To relieve the hard atmosphere, I solved the episode of rain and wind the day before. Everyone laughed. It seemed to help the class atmosphere even a little bit. In the morning, I went on a campus tour with a guide. The guide's explanation was excellent, but it seemed to proceed a little faster because there was not enough time to introduce the entire school. It was a shame that Aalto University only introduced buildings that looked like the main building, even though there were many buildings like UNIST. However, the size of one building was great enough to run out of time even though it was explained for an hour. There were a lot of work spaces at Aalto University where many good works could be produced. And there were many places for students to sit and relax. There were also many places to sit and discuss. When we were given a short break, we took great pictures of each other. Personally, I like my picture taken on the first day. This is a picture of me doing a "V" while sitting on the stairs where anyone can see the Aalto University logo.



Figure 2 Minced meat sauce and me with Aalto on stair of Aalto University

On the first day, I went to the student cafeteria for lunch. I got a student discount, so I got a discount of about 3 euros for a meal equivalent to 8 euros which is corresponding to non-discount price. Finnish food doesn't suit me. I ate lunch to live. After lunch, I stopped by the Aalto University Shop. There were T-shirts, hats, postcards,

water bottles, and personal items made by Aalto students. Regardless of your willingness to buy, it is also good to stop by and take a look. In addition, I was able to get a discount on Aalto University students, so I was able to buy it at a lower price than the actual price. In the afternoon class, Laura Kitinoja gave a presentation called Introduction to Team Projects. It was the first start for a two-week Team Project. On this day, our team took on the theme of Sustainable Consumption and Production, which corresponds to Sustainable Development Goals 12 (SDG12). Our team's name was Salmiakki. Salmiakki is a Finnish "national food". It tastes salty and bitter at the same time. Salmiakki, the main ingredient of western licorice, has a completely different taste from oriental licorice and has a unique taste with salt and ammonium chloride. There was no UGP team member who liked this Salmiakki. However, Saara teacher said she liked it very much. In fact, I could see Salmiakki in candy, jelly, gum, ice cream, and chocolate at the mart. In the afternoon, I had sufficient discussion with my team members about the project to be carried out. By 16 o'clock we had finished our class. And on the first day, we headed to Kamppi station to have dinner together. After passing the European-inspired street, we arrived at Kultra Kitchen & Bar. The mood of this restaurant was very good. It was subtle and the best comfort I could feel in Europe. As soon as I arrived, I ate rye bread and champagne. Soon after, I ate salmon soup, reindeer meat, mashed potatoes, and red wine. Finally, I ate cheese bread with cinnamon and fresh fruit. Before going back to the hotel, I took a tram and felt the night view of Europe. The first day ended safely with a great photo taken at the National Theater of Suomen Kansallisteatteri. On the second day, I could learn Finnish. Kiitos means thank you. For lunch, I ate sushi and fruit at Konichiwa in Aalto University. In the afternoon class, I was able to develop the team project further. Thanks to the instructor's excellent diction and delivery, the class was not boring, but lively and energetic. After finishing the afternoon class that day, I once again wandered the streets of Helsinki at night. However, there were many twists and turns because of the snow and wind. In particular, I visited Helsinki Cathedral called Helsinki Tuomikirkko. It is a representative landmark of Helsinki. The panoramic view of Helsinki Senate Square in front of this place was art. I took good pictures with my UGP friends and even took a group picture. I had dinner at Helsinki Briggeri Brewhouse. Twelve people had dinner together. I had time to talk about myself one by one and it was very good. On this day, I thought it would be nice if all the UGP team members could get together and talk about themselves. So later, everyone gathered in the Social Room on the second basement floor of the hotel and had time to talk about themselves. I think I spent the rest of the week in downtown Helsinki after class. Once, I went to downtown Helsinki with UGP supporters and a Korean teacher. I went to iizip (Korean Restaurant), a Korean restaurant in Finland. I ate Jajangmyeon and Tteokbokki here. I went to Helsinki Cathedral one more time on this day. It was a clear and peaceful day. It was nice even though I went to the same place twice. Finland is dark outside after class at Aalto University because the sun goes down quickly. So it was hard to see downtown Helsinki during the day. However, some afternoon classes ended earlier than usual. So luckily, I could see Helsinki during the day. I went to an old traditional market in Finland called "Vanha Kauppahalli". There are many kinds of salmon and cheese, and the inside is clean. I went to buy souvenirs for my friends and family in Korea. One of the famous things in Finland is Moomin. So I went to Moomin Shop and bought a card wallet, snacks, and mail. At the recommendation of a UGP friend, I went to a pasta restaurant with a good rating in Finland. But the food was very salty, so it was hard to eat. One of the restaurant staff was a very pleasant Italian. Thanks to the humorous man, the food was not a waste. clean.



Figure 3 Downtown of Helsinki street, reindeer with mashed potatoes, Helsinki Cathedral with our UGP tema members, project team's discussion and outcome, pasta restaurant

The weekend travel time is approaching. Five people, including me, had one main purpose of the trip to Finland. We wanted to observe the aurora. We headed further north because we couldn't see the aurora in Helsinki. The name of the area is Ivalo. We arrived at Ivalo Airport on a two-hour flight from Helsinki's Vantaa Airport. As soon as we got off the plane, the incredibly cold air and wind came over us. It was very cold unlike Helsinki, probably because it was certainly north. As soon as we arrived at the airport, we took a taxi. Since the area around the accommodation was surrounded by mountains, many lights in the city were blocked. So I could see the stars very well. Looking at the beautiful sky with both eyes made me feel new. We will stay Friday, Saturday and Sunday at Cottage Village in Ivalo River Camping. As soon as we arrived at the accommodation to observe the aurora which is called Northern Light, the five of us came out without unpacking our luggage. I looked at the sky while walking on the road and the frozen river. It snowed more than I thought, so the cold was considerable. My feet were cold. So, there was a friend who gave up the journey of observing aurora and went back to the accommodation. Later, the friend lost his cell phone. However, we found friend's cell phone safely. We walked outside for three hours to observe the aurora. The aurora of dim light could be seen, but it was a very weak. The weather was cloudy because of the heavy clouds. As soon as I came back to the accommodation, we found the cell phone of my friend who was sitting in despair. The soles of the feet were very painful, but it was worthwhile. Even though everyone was tired, they were determined to see the aurora. I stayed awake even reducing my sleep. Then a friend shouted. "I can see the aurora!" We gasped out of our sleep. We came out, forgetting the cold. Even though the white snow wrapped around my bare feet and it was cold, I forgot the pain when I saw the aurora spread out in the sky. A beautiful green light

greeted us. We took so many pictures. I took a picture with Aurora. As the morning dawned, the aurora disappeared. But we succeeded in observing the aurora. After that, we ate a foods and talked lightly and relaxed in Northern Europe. I enjoyed the activities by riding a snowmobile, ice fishing. We all left Ivalo with light steps. I came back to school. Explaining our long journey to UGP team members and teachers reminded me of pride and emotion once again.

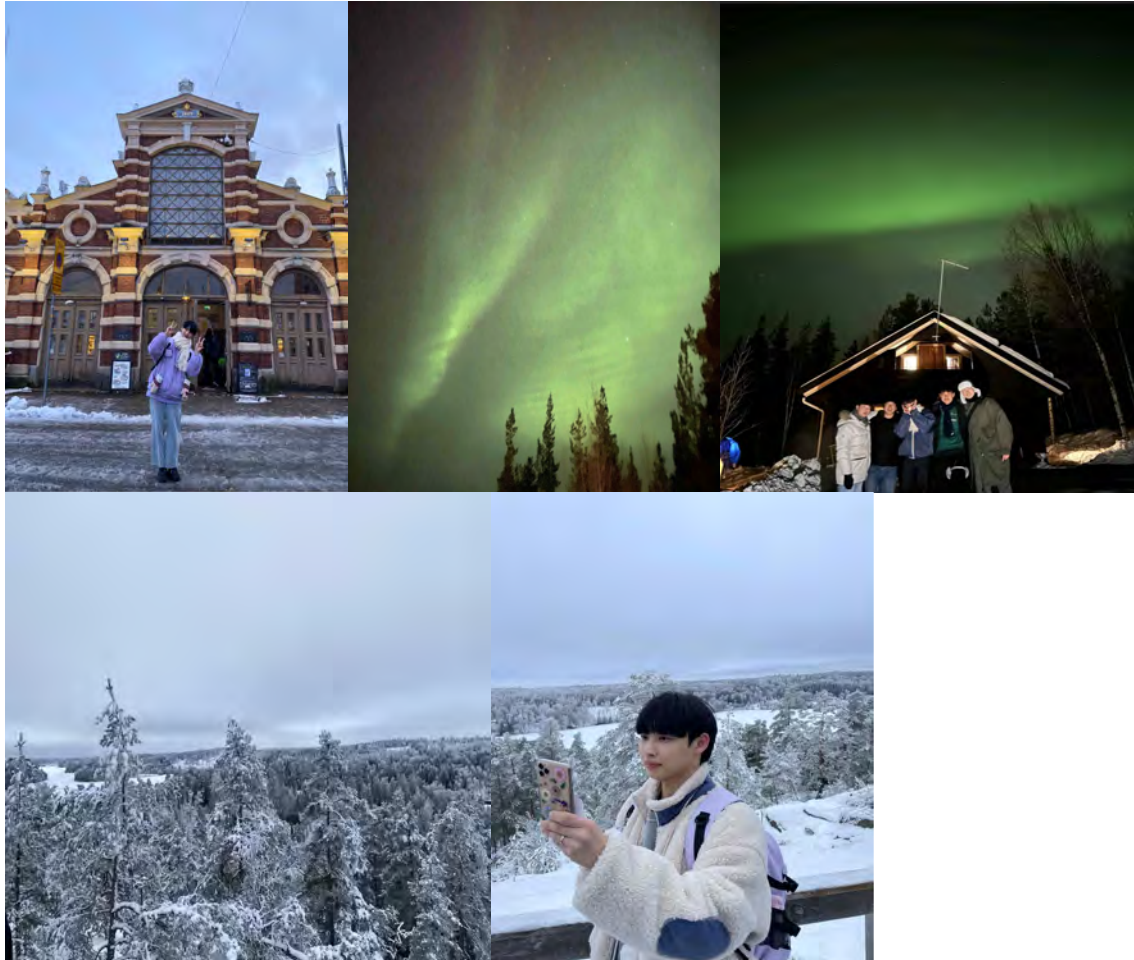


Figure 4 Finland Traditional Market, Aurora, and Nuuksio

It's about time we all left for Nuuksio. I went hiking in Nuuksio. The natural scenery completely covered with snow was art. It was colder than downtown Helsinki, but weaker than the cold felt in Ivalo. After hiking in Nuuksio, we enjoyed Finnish tradition while drinking grilled salmon, potatoes, pancakes and coffee at a place called TP. The time has come to develop the Team Project in earnest. In the meantime, we have been able to grow our project further with the knowledge and background obtained through AI programs and Big Data classes. Through AI and Big Data, the results of the Team Project could be reinforced more stably. The complexity was improved and the deficiencies were filled. Luckily, our team had someone who was competent in design and in modeling programs. Thanks to them, the project results have improved. The presentation was divided into five parts to successfully fill Why, What, How, Where, and Who. It was fun until the moment when I bought bread, food, and snacks from K-market and ate that in Social Room to do the last presentation. Finally, as we finish the short-term overseas training program, I will finish this report with a memory of the

moment Saara calls out the names of 25 members of our UGP team.



Figure 5 Final Presentation and Saara with me at last day for certificated