

Jeonghyeon Park

SITE SELECTION · SITE RECOMMENDATION BASED ON GRAPH STRUCTURE

Data Science Lab, Dong-A University, Busan, S. Korea

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“The deadliest weapon in the world is effort and endurance.”

Education

Dong-A University

Busan, S. Korea

BACHELOR. IN COMPUTER ENGINEERING

Mar. 2018 - Feb. 2024

- Undergraduate researcher at the Data Science Lab, actively from September 2021 to the present.
- Got the university's DECO scholarship for driving innovative ideas and projects.
- Got a scholarship for impactful project work, showcasing innovation and success in challenging semesters.

Skills

Programming Python, C/C++, JAVA, Kotlin, Ruby

Web Django, HTML5, TypeScript, Jekyll

Framework Docker, Apache Spark, Tensorflow

Languages Korean

Experience

Electronics and Telecommunications Research Institute (ETRI)

Daejeon, S. Korea

SUMMER RESEARCH TRAINEE

Jul. 2023 - Aug. 2023

Dong-A University in Computer Engineering & Artificial Intelligence

Busan, S. Korea

DISCRETE MATHEMATICS TEACHING FACILITATOR

Sep. 2022 - Dec. 2022

- Created a task (4 steps) to analyze discrete data using Python's data libraries (Pandas, Matplotlib, NetworkX, etc.).
- Participated in the activity 2 times

Dong-A University in Computer Engineering

Busan, S. Korea

OPEN SOURCE SOFTWARE DEVELOPMENT TEACHING FACILITATOR

Mar. 2022 - Jun. 2022

- Participated in the local issue resolution project hosted by BusanIT and won the 1st prize (BusanMayor Award).

Extracurricular Activity

NVIDIA, Accelerated Computing Education

Virtual space

MEMBER

DEC. 2022

- Machine Learning Fundamentals with GPU Acceleration

Google Developer Student Clubs(GDSC) - DAU

S. Korea

SKILL CORE MEMBER

Sep. 2022 - PRESENT

- The Code Bridge Conference was planned as the Jobs Team.

DAU Computer Engineering Department Academic Club BigDataTeam of CPU

Busan, S. Korea

TEAM LEAD

Sep. 2022 - PRESENT

- Guidance of the project for selecting an appropriate location for the playground for the elderly in Busan with reference to the WHO Age Friendly FrameWork
- Development map of travel destination recommendation application using open data based on matrix factorization algorithm.

BusanIT, AI theory and practice education using Python

MEMBER

- Learned 3D data visualization and practical application methods.
- Learn how to use geospatial data and AI technology.

Busan, S. Korea

Jul 2022 - Aug 2022

NVIDIA, Accelerated Computing Education

MEMBER

- CUDA-Provided Thread Hierarchy Variables and Grid-Stride Loops training.
- Using CUDA to reduce the computational cost of specific code

Virtual space

May, 2022

BusanIT, AI/Big Data Practical Training

MEMBER

- Learning about knowledge graph using Neo4J.
- Deep learning-based computer vision practice and knowledge graph-based data analysis practical training.

Busan, S. Korea

Oct. 2021 - Nov. 2021

Data Science Lab(aka. DSL)

UNDERGRADUATE

- Conducting and assisting research with Prof. Jungkyu Han and Prof. Sejin Chun
- Research on Location Intelligence Application for Finding Optimal Sites of Green-Car Charging Stations Using Bayesian Networks
- Research on finding optimal locations of senior centers in Busan using GIS and open data

Busan, S. Korea

Sep. 2021 - PRESENT

Honors & Awards

DOMESTIC

- | | | |
|------|---|-------------------|
| 2022 | Best Paper Presentation Award , Conference of the Korea Multimedia Society | Daejeon, S. Korea |
| 2022 | Korea Eastern Power President Award , 10th MOTIE Open Data-Based Business Idea Competition (Product and service development) | S. Korea |
| 2022 | Busan Mayor Award , Participated in the local issue resolution project hosted by BusanIT | Busan, S. Korea |
| 2022 | Best Paper Award , Conference of the Korea Multimedia Society | Busan, S. Korea |
| 2021 | 1st Award , Dong-A University DevDay | Busan, S. Korea |

Presentation

2022 Conference of the Korea Multimedia Society

PRESENTER FOR <RESEARCH PAPER>

- Location Intelligence Application for Finding Optimal Sites of Green-Car Charging Stations Using Bayesian Networks

Daejeon, S. Korea

Nov. 2022

10th MOTIE Open Data-Based Business Idea Competition

PRESENTER FOR <LOCATION INTELLIGENCE APPLICATION>

- Location Intelligence Application for Finding Optimal Sites of Green-Car Charging Stations Using Bayesian Networks

Virtual space

Aug. 2022

2022 Conference of the Korea Multimedia Society

PRESENTER FOR <RESEARCH PAPER>

- Finding optimal locations of senior centers in Busan using GIS and open data

Busan, S. Korea

May. 2022

1st Dong-A University Computer Engineering DevDay Competition

PRESENTER FOR <OSMNX BASED LOCATION SELECTION MODEL>

- OSMnx-based Busan Senior Welfare Facility Appropriate Location Selection Model

Busan, S. Korea

Dec. 2021

Publications

Location Intelligence Application for Finding Optimal Sites of Green-Car Charging Stations Using Bayesian Networks

JEONGHYEON PARK, DAERO KIM, AYOUNG KIM, JINYOUNG CHOI, JUNGKYU HAN, SEJIN CHUN

- 2022 the Fall Conference of the Korea Multimedia Society.

Daejeon, S. Korea

Oct. 2022

Finding optimal locations of senior centers in Busan using GIS and open data

Busan, S.Korea

JEONGHYEON PARK, DAERO KIM, JUNGKYU HAN, SEJIN CHUN

May, 2022

- 2022 the Spring Conference of the Korea Multimedia Society.

Project

Location Intelligence Application Development for Finding Optimal Sites of Green-Car Charging Stations Using Bayesian Networks

TEAM LEAD

Jul. 2022 - Sep. 2022

- In order to select the location of the charging station, variables corresponding to environmental/economic/social/technical factors are combined probabilistically to derive the result.
- It has the advantage of considering environmental/economic/social/technological factors at the same time

OSMnx-based Busan Senior Centers Optimal Location Selection Model

TEAM LEAD

Oct. 2021 - PRESENT

- Administrative districts that lack senior centers compared to the elderly are first selected.
- We extracted the Busan Urban Network through OSMnx and visualized it considering the accessibility of the elderly.

References

Prof. Jungku Han

Busan, S. Korea

PROFESSOR AT DAU, DEPT. OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE

EMAIL : JKHAN@DAU.AC.KR

- Recommendation System
- Information Search

Prof. Sejin Chun

Busan, S.Korea

PROFESSOR AT DAU, DEPT. OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE

EMAIL : SJCHUN@DAU.AR.KR

- Knowledge Graphs: Inference, Stream Reasoning
- Big Data Analytics: Streaming Database