

Sumin Baek

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location : Busan, Korea

Education	Dong-A University(DAU), Busan, Korea <i>Artificial Intelligence</i>	March 2021 - Present
Research Experience	DAU Data Science Labs <i>Undergraduate Research Intern</i> <ul style="list-style-type: none">• Conducting and assisting research with Prof.Jungkyu Han and Prof.Sejin Chun• Published some paper that named Handling Missing Data with Graph Representation Learning	December 2021 - Present
Activities	AI and Big Data Practical Training <ul style="list-style-type: none">• Analyzed Knowledge Graph-based data and Domain Knowledge modeling• Predicted values by regressing the public data (Machine Learning) AI theory and practice using Python <ul style="list-style-type: none">• Basic theories of energy and power, Concepts and Big data analysis, and power energy prediction AI Big Data Grand Challenge Education <ul style="list-style-type: none">• Basic theory and formula for reinforcement learning based on reward training, MDP (Markov Decision Process), Bellman expectation equation, Bellman optimal equation• Object recognition and object classification using drones	October 2021 - December 2021 June 2022 - August 2022 June 2023 - August 2023
Award	MOTIE Open Data-Based Business Idea Competition (Development) Achievement : <i>Encouragement Award</i> <ul style="list-style-type: none">• Developed and presented Electricity bill that how much energy you use and when you use it• Created a customer database to connect server and resulting in calculation Time of use plan Donga Univ. Dev Day Competition (idea planning) Achievement : <i>Track Grand Award</i> <ul style="list-style-type: none">• In collaboration with the Department of Electrical Engineering, we presented an idea plan on the topic of net-zero that the campus lecture scheduling through real-time tracking of carbon footprints.	August 2022 August 2023
Presentation	Handling Missing Data <ul style="list-style-type: none">• Defined Missing data domains and classification according to the cause of missing values	February 2022

- Introduced to the solve Model that use Mean and Multivariate Imputation by chained equations

RNN-Based Data Interpolation Reliable TOU plan Service

August 2022

- Announced the recurrent neural network model used for energy/power big data analysis through the grand challenge

Towards Missing Electric power data Imputation for energy management systems
September 2022

- Presented to use missing data that Linear Interpolation and support vector regression method

Major Skills

Programming : Python, C, C++, Latex
ML/DL : PyTorch, Scikit-Learn
Data skill : SQL, GraphDB, Numpy, Pandas, Matplotlib
SW Dev : Flask, MongoDB

References

Prof. Jungkyu Han

- Professor at DAU, Dept. of Computer Science and Artificial Intelligence
- Email:jkhan@dau.ac.kr

Prof. Sejin Chun

- Professor at DAU, Dept. of Computer Science and Artificial Intelligence
- Email:sjchun@dau.ac.kr