



JaeyoonKIM

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"To Make Each Day Count"

Education

Kwangwoon University

B.S. IN INFORMATION CONVERGENCE, MAJOR IN DATA SCIENCE

• Major GPA : 3.82 / 4.5 | Total GPA of 3.71 / 4.5 (Credits taken : 117/133)

Mar. 2018 - Feb. 2024 (Expected)

Seoul, S.Korea

Publications

DOMESTIC

2022 **CALS/ES2022**, Backhyun Kim, Jaeyoon Kim, Minjung Kang, Sangmin Lee, DaeEun Lim, Haejoong Kim
Path Selection Based on Machine Learning for Congestion Avoidance of Autonomous Mobile Robot

JSEBS

PATTENT

2022 Seongjin Bang, Sangmin Lee, Jaeyoon Kim
Rehabilitation exercise monitoring apparatus based on pose estimation and method thereof

Internships

Undergraduate Research, AI as a Service Lab

UNDERGRADUATE RESEARCHER

- Studied Data Mining, AI applied to industry.
- Reviewed papers related to Pathology.
- Participated in Industry – Lab cooperation projects.

July. 2022 - Jan. 2023

Kwangwoon University, Seoul

Project Experience

Industry-University Cooperation Project (with Hyundai-Transys)

TEAM LEADER

- Collaborative project of my "Samiyongdu" Team and Hyundai Transys ICT Division
- Project to create images of defective Hyundai Motor transmission parts
- Studied and implementing various GAN Framework-based models
- Studied Image processing using OpenCV
- Dealt with tasks related to images (Object Detection, Classification)

July. 2022 - Feb. 2023

Seoul, S.Korea

BITAmin Conference Project

TEAM LEADER

- Dealt with datasets related to the Manufacturing Process
- Analyzed sensor and sound data generated in the hot air drying process using Python
- Studied Time Series Anomaly Detection (LSTM-AE)

Nov. 2022 - Jan. 2023

Seoul, S.Korea

Prediction of defective injection products based on Anomaly Detection

TEAM LEADER

- Term project for course *AI application* of 2022-Fall semester
- Analyzed injection process dataset using Python
- Studied various ML based Anomaly Detection models. (Isolation-Forest, MOG, OCSVM, LOF, KNN..)
- Wrote a Short paper on this project

Oct. 2022 - Nov. 2022

Kwangwoon University, Seoul

Process Mining Project for bank log data

INDIVIDUAL

- Term project for course *Data Analysis* of 2022-Fall semester
- Analyzed actual extracted log data extracted from a Dutch bank using Python
- Analyzed with Disco and PM4PY Library
- Analyzed by applying various algorithms such as Heuristic mining and DFG mining
- Wrote a perfect report on this project

Oct. 2022 - Nov. 2022

Kwangwoon University, Seoul

Development of AI service platform for rehabilitation exercise of disabled people

July. 2022 - Oct. 2022

CONTRIBUTOR

AlaaS Lab, Seoul

- Project of the National Rehabilitation Center conducted in the AlaaS Lab
- Studied and contributed to Android app development using Kotlin
- Collected physical data from disabled patients by wearables devices and analyzed
- Tried to find Insights through DTW time series clustering

Path selection based on Machine Learning for Mobile Robot Project

Aug. 2022 - Oct. 2022

MAIN CONTRIBUTOR

AlaaS Lab, Seoul

- Project of the Korea Railroad Research Institute conducted in the AlaaS Lab
- Collected data related robot movement using Anylogic simulation tool
- Classification modeling for path selection with Ensemble model (Xgboost, LightGBM, RandomForest..)
- Wrote thesis and submitted to The Journal of Society for e-Business Studies (JSEBS)

Prediction of the Company's bankruptcy risk Project

Mar. 2022 - June. 2022

CONTRIBUTOR

Kwangwoon University, Seoul

- Term project for course Machine Learning of 2022-Spring semester
- Analyzed Polish corporate financial statement data provided by UCI using Python
- Studied overall flow of Machine Learning and applied various techniques (Supervised Learning, Unsupervised Learning)

Topic Modeling by rating for [Today's house] review for self-employed students Project

Mar. 2022 - June. 2022

CONTRIBUTOR

Kwangwoon University, Seoul

- Term project for course Text Mining of 2022-Spring semester
- Collected review data by crawling with BeautifulSoup Library
- Applied Sentiment Analysis for rescoring review rates
- Applied Topic Modeling with Latent Dirichlet Allocation (LDA)

Mobile Programming Project

Oct. 2021 - Dec. 2021

INDIVIDUAL

Kwangwoon University, Seoul

- Term project for course *Mobile Programming* of 2021-Fall semester
- Used Android Studio for developing
- Developed Linux and Git bash command dictionary and got good result
- Fun fact : object oriented programming still difficult

Awards & Honors

AWARDS

2022 **2nd Place**, Kwangwoon AI Hackathon (Computer Vision)

Kwangwoon Univ.

HONORS

2022 **Top 9%**, Classification Machinery Oil condition Competition

DACON.

2021 **FastAPI Contributor**, worked on translating Korean documents

Github.

Teaching

Bigdata Language

Sep. 2022 - Dec. 2022

TEACHING ASSISTANT

Kwangwoon University, Seoul

- Course in Department of Information Convergence for sophomore
- Marked python programming assignments and proctored exam

Golden Bell School (Samsung Card Data Mining Education Program)

Mar. 2021 - Dec. 2021

INSTRUCTOR, ASSISTANT

Seoul, S.Korea

- Taught middle school students the notion of big data and data mining

External Activity

Kwangwoon University Student Council

Mar. 2018 - July. 2018

MEMBER

Kwangwoon University, Seoul

- Planned an event for the Information Convergence

International Center of Youth (ICY)

Mar. 2021 - Feb. 2022

MEMBER

Seoul

- Met university students in Seoul and discussed various social topics
- Planned a "World Culture Experience Class" and volunteered for a local children's center in Seoul

BITAmin (Big Data & AI student club)

Feb. 2022 - Feb. 2023

LEADER

Seoul

- Studied Big Data and AI with people from various majors
- Planned the overall activities and managed all dues
- Invited senior members who Data Scientist and PhD for lecture

Skills

Programming Python, R, C, Java, Android

Deep Learning Pytorch

Data Analysis Numpy, Pandas, scikit-learn, Matplotlib, seaborn