Jaeseong **Son**

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"Acta Non Verba."

Education

Kwangwoon University   *Seoul, S.Korea*

B.S. IN INFORMATION CONVERGENCE, MAJOR IN DATA SCIENCE   *Mar. 2018 - Feb. 2024*

- Total GPA:3.82/4.5 (Credits taken : 146/133)

Publication

INTERNATIONAL (JOURNAL)

2024	**Appl. Sci.**, Jae-seong Son, Jae-sung Park. *Channel State Information (CSI) Amplitude Coloring Scheme for Enhancing Accuracy of an Indoor Occupancy Detection System Using Wi-Fi Sensing*	*SCIE*

INTERNATIONAL (CONFERENCES)

2024	**IEA2024**, Jae-seong Son, Ju-hyeon Kim, Ho-joon Kim, Hyeon Sim, Gyu-Min Hwang, Jae-sung Park and Kyu-dong Park. *Towards Non-Invasive Tongue Movement Detection: Leveraging Wi-Fi Signal.*	*IEA*

DOMESTIC (CONFERENCES)

2024	**KIIE2024**, Jae-seong Son, Ju-hyeon Kim, Ho-joon Kim, Hyeon Sim, Gyu-Min Hwang, Jae-sung Park, Kyu-dong Park. *A Comparative Study on Data Preprocessing Techniques for Wi-Fi Signal-Based Tongue Movement Recognition.*	*KIIE*
2023	**ACK2023**, Jae-seong Son, Jae-sung Park. *A study on crowd counting by using commodity WLAN devices.*	*KIPS*
2023	**ACK2023**, Jae-seong Son, Jong-Min Jeong, Jae-sung Park, Sang-Min Lee. *A study on random dilated shapelet transform for classifying multivariate signal data.*	*KIPS*
2023	**ICROS2023**, Jae-seong Son, Dae-hyun Kim, Hong-seob Bae, Jae-sung Park. *Study on a self-driving service through a MEC server.*	*ICROS*
2022	**HCI2022**, Jae-seong Son, Jun-hyuk Kwon, Hyun-soo So, Seok-won Jang, Kyu-dong Park. *Design and development of applications for music cover video production.*	*HCIKOREA*

Research Experience

Undergraduate Research   *Seoul, S.Korea*

UNDERGRADUATE RESEARCHER IN INTELLIGENT DATA, NETWORK, AND AI LAB OF PROF. JAE-SUNG PARK   *Sep. 2022 - Jul. 2024*

- Research on Developing AI-enabled networked systems and services.
- Research on WiFi Sensing.

Project Experience

Defective image generation system for learning/verification using AI model   *Seoul, S.Korea*

TEAM MEMBER   *Jul. 2022 - Jan. 2023*

- Collaboration project with 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)

Prediction of defective injection products based on Anomaly Detection   *Seoul, S.Korea*

TEAM MEMBER   *Sep. 2022 - Dec. 2022*

- Analyzed injection process data set using Python.
- Studied various ML based Anomaly Detection models.(MOG, OCSVM, LOF, KNN etc)
- Wrote a Short paper on this project

Mail analysis and deletion mail recommendation service based on user mails   *Seoul, S.Korea*

TEAM MEMBER   *Aug. 2022 - Sep. 2022*

- Using IMAP to gather data.
- Apply the Naïve Bayes model to classify advertising, subscription mail.
- Recommendation of emails to delete by assigning weights based on whether they have been read or not.
- Providing adashboard by analyzing the user's mailbox

Predicting emergency patients using medical data   *Seoul, S.Korea*

TEAM MEMBER   *Mar. 2022 - Jun. 2022*

- Using Mimic-iv data.
- Apply various Machine Learning model to predict emergency patients.
- Interpreting Results with XAI.

Awards & Honors

AWARDS

2022	**Encouragement Award**, Kwangwoon AI Hackathon (Computer Vision)	*Kwangwoon Univ.*
2021	**Dean's List**, for Academic Excellence	*Kwangwoon Univ.*
2021	**Excellence Award**, Chambit design semester	*Kwangwoon Univ.*

HONORS

2023	**Micro Module Excellence Scholarships**, awarded to students with excellence in micro module	*Kwangwoon Univ.*
2022	**Software Excellence Scholarships**, awarded to students with excellence in software	*Kwangwoon Univ.*
2021	**Semester High Honors**, awarded to students with high achievements throughout the semester	*Kwangwoon Univ.*

Teaching

Data Structure   *Kwangwoon University, Seoul*

TEACHING ASSISTANTSHIPS   *Sep. 2023 - Dec. 2023*

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

Computer Network   *Kwangwoon University, Seoul*

TEACHING ASSISTANTSHIPS   *Mar. 2023 - Jun. 2023*

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

Internet of Things System Design and Experiment   *Kwangwoon University, Seoul*

TEACHING ASSISTANTSHIPS   *Mar. 2023 - Jun. 2023*

- Course in Department of Information Convergence for Junior
- Marked self-driving car programming assignments and proctored exam

Extracurricular Activity

Venture Startup Academy   *Kwangwoon University, Seoul*

PARTICIPANT   *Mar. 2023 - Dec. 2023*

- Participated in Venture Startup Academy an intelligent Back-End training course.

Kwangwoon University's Alumni Association   *Kwangwoon University, Seoul*

MEMBER   *Nov. 2021 - Feb. 2022*

- Construction and management of Kwangwoon University's Alumni Association Server & Web.

2018 Hello, Kaggler (Open Seminar)   *Jongno, Seoul*

PARTICIPANT   *Oct. 2018*

- Participated off-line workshop on Kaggle and AI techniques managed by DataBreak

Certificates

2023	**National Science and Technology Big Data Analysis Article**,	Korea Data Agency
2023	**Engineer Information Processing**,	Human Resources Development Service of Korea
2023	**SQL Developer**,	Korea Data Agency

Skills

Programming Python, R, C, C++, Java, MySQL, Spark, Android
Deep Learning Pytorch, Keras, Tensorflow
Data Analysis Numpy, Pandas, scikit-learn, Matplotlib, seaborn, Pm4py