Sehee Kim

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EDUCATION

Jeonbuk National University   **Jeonju, S. Korea**
Bachelor of Computer Science and Business Administration   **2016 – Present**
- GPA (Overall): 3.93/4.5; GPA (CS Major): 4.23/4.5
- Relevant Modules:
  Calculus, Linear Algebra, Probability, Machine Learning, C++, Data Structure, Algorithms

PUBLICATIONS

Accuracy improvement of deep learning gender classification model using   **KCC 2022**
retail customer tracking information
Sehee Kim, Tae-Woong Yoo, Minwoo Kim, Il-Seok Oh
- Currently under review

RESEARCH EXPERIENCE

JBNU Computer Vision Lab   **Jeonju, S. Korea**
Student Researcher   **2021 – Present**
- Participated in a research project on gender and age prediction for real-time customer information analysis tracking retail store customers,
- Researched gender classification and experimented YingYang-Net and modified model architecture to perform,
- Analyzed journal articles and past research on 2D human pose estimation and used it to experiment HigherHRNet, HRNet models to test weaknesses,
- Modified HigherHRNet architecture using the transformer model to overcome large-scale performance degradation from an increase in image resolution,
- Implemented CNN models such as ResNet, VGGNet, AlexNet upon in-depth research of past experiment analyses and database,
- Optimized CNN models, MLP, and SLP using MNIST and CIFAR-100 datasets through adjustments of hyper-parameters and modifications,
- Participated and organized weekly seminars to review research analyses and lab output.

Tilon   **Seoul, S. Korea**
Research Intern   **Dec. 2020 – Feb. 2021**
- Participated in research of PE file and Hooking methods upon an in-depth analysis of Windows Internals,
- Successfully pitched new ideas about security file for the company-wide project and applied for patent,
- Attended daily conferences with senior researchers to present lab experiment data,
- Studied to address various research questions in accordance with contexts and to reach conclusions.

PROJECT EXPERIENCE

Autonomous Driving Projects   **May 2022 – Present**
- Conducted research on visual SLAM and devised an autonomous driving experiment for Kookmin University Autonomous Driving Competition,

- Executed a close study on motion planning and reinforcement learning to apply on the autonomous driving experiment,
- Organized a recruitment process to gather team members to participate in the project.

Jeonbuk National University AI Project Group   **Sep. – Dec. 2020**
- Joined the AI project group and studied deep learning solving the Linear regression, Logistic regression problems,
- Implemented YOLOv5 using PyTorch and tested on real-time video,
- Presented the results of a project in front of professors.

WORK EXPERIENCE

Jeonbuk National University Office of International Affairs   **Jeonju, S. Korea**
Academic Assistance Manager   **Mar. – Jun. 2020, Sep. – Dec. 2021**
- Guided international students in the computer science department and the business school to comprehend lecture materials,
- Provided translation services for Korean materials by creating English course materials for several major courses and electives,
- Assisted new-coming international students by participating in the orientation week, guiding them through school facilities and aiding course selection processes.

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

KB Kookmin Bank Software Hackathon   **Seoul, S. Korea**
4th Place Award, Team Leader   **Dec. 2021**
- Placed 4th in the KB Kookmin Bank Hackathon as a team leader,
- Organized team members' tasks based on an analysis of strengths and weaknesses of each member,
- Enthusiastically collaborated with team members to develop an application and design UI,
- Researched waste classification and developed recyclable café cup classification model using ResNet18,
- Created an application to distinguish recyclable cups based on the analysis of labels using AI technology,
- Presented a viable implementation case of the software upon following disposal policies for cafes and restaurants in South Korea,
- Developed a server with Plask and linked application and models in AWS,
- Demonstrated a presentation for the final competition as the speaker.

Konkuk University Medical Hackathon   **Seoul, S. Korea**
4th Place Award, Team Leader   **Oct. 2021**
- Placed 4th in the Konkuk University Medical Hackathon as a team leader,
- Researched medical AI models used in the hospital industry,
- Designated responsibilities for each team members based on their strengths and weaknesses,
- Conducted in-depth research about OCR and trained OCR model provided by NAVER CLOVA by using handwriting datasets,
- Created an AI-based application that can be utilized in medical settings by nurses and other personnel,
- Collected authorized hospital charts to test the technicalities of the application,
- Demonstrated a presentation on behalf of the team members.

ADDITIONAL SKILLS

Certificate   Microsoft Azure AI-900 (verify.certiport.com: RHdy-4wBm)
                    Certificate of Lecture of Deep Learning 1-4 from NAVER (Certificate ID. A20220513-325882)