Minhyeok Kim

Dasan-ro, Jung-gu, Seoul, 010-9493-5812, rmeakgo@gamil.com

EDUCATION

Sejong University 2018.02 ~ 2024.02
B.E. in Intelligent Mechatronics Engineering
(Overall GPA: 3.86 / 4.50, Major GPA: 3.91 / 4.50)

PROJECT EXPERIENCE

Autonomous Driving Robot for Night-time Safe 2023.03 ~ 2023.06

- Developed and implemented a YOLOv4-based deep learning model for robust user tracking (50mAP) in night-time autonomous driving scenarios, even in crowded environments.
- Further optimized the model's efficiency by 30% to enable multi-tasking within limited computational resources commonly found in autonomous vehicles.

Embedded System for Road Congestion 2023.03 ~ 2023.06

- Developed and optimized a Mobile-Net based deep learning model for real-time multi-object detection of vehicles on the embedded low light conditions, achieving 70mAP accuracy for both day and night conditions.

Various Kaggle Competition Projects 2022.09 ~ 2022.12

- Sharpened data science skills by tackling 50+ Kaggle challenges in image, NLP, and voice data analysis. Won Bronze medals for top-performing notebooks, proving ability to solve real-world problems with ML/DL.

LEADERSHIIP ACTIVITIES

Calligraphy Club, Sejong univ. (President) 2022.06 ~ 2023.08

- Managed the Calligraphy Club at Sejong University, growing it from 8 to 42 active members. Expanded leadership by restructuring from a single-president system to include a president, vice president, and treasurer. Revitalized the alumni association, boosting engagement and support.

SAI(Sejong AI) Paper review / Vision, Sejong univ. (member) 2022.06 ~ 2023.03

- Led the SAI paper review team, proposing papers to review and facilitating reviews of codes on git of a wide range of AI domains.
- Posted trending computer vision algorithms and papers on a regular basis for other SAI members.

Undergrad researcher in IVPL(Intelligent Vehicle Perception Lab) 2022.06 ~ 2023.06

- contributed to projects on precise car localization using YOLO models. This involved analyzing research, coding, and preprocessing vehicle data specifically focusing on underbody features.

LG Aimers 4th 2024.01 ~

- Extracting key features from real-world, multilingual MQL data (10+ languages) for B2B sales prediction (ongoing). Applying data analysis expertise to enhance model accuracy and effectiveness.

SKILLS & CERTIFICATIONS

- Programming Skills: Python, C, Pytorch, Tensorflow, Scikit-Learn, MATLAB, Ubuntu, ROS
- MS PowerPoint, Excel
- OPIC(Intermediate High), TOEIC(880)
- Native in Korean, Intermediate in English

AWARDS

- **15th Capstone Design Fair 3rd place**(Autonomous Driving Robot), Sejong University