Youngeun Yoon

Profile

Biomedical Engineering student with hands-on expertise in sensor design, signal processing, and algorithm development. With a 1.5-year internship experience at Gangdong Kyunghee University Hospital Radiology, I bring valuable clinical insights and a passion for advancing brain mechanism research.

Education

Kyung Hee University

March 2020 — Present

Department of Biomedical Engineering (GPA of 3.20 / 4.5)

Internships

Undergraduate Researcher at Prof. Geon-ho Jahng

January 2023 — June 2024

Radiology Lab

- Published a research paper in a leading scientific journal describing the results of the experiment
- Used statistical analysis to draw meaningful conclusions from the data collected from the experiment

Project Experience

Classification of Brain Tumor, Side project

March 2024 — June 2024

Term project for course Machine Learning & Pattern Recognition of 2024-Spring semester

- Developed a deep learning-based CNN model to detect and classify brain tumors using MRI scans.
- Trained and evaluated the model on a dataset with four categories: Glioma, Meningioma, Pituitary Tumor, and No Tumor.

Real-time Gait Measurement Device, Team leader

September 2023 — December 2023

Term project for course Capstone Design in BME of 2023-Fall semester

- Developed a lightweight, portable gait measurement device with pressure sensors attached to shoes.
- Utilized AVR and Bluetooth communication to transmit real-time foot pressure data to a PC.
- Implemented a Python-based software for real-time graphical visualization and color-mapped foot pressure analysis.

Details

Seoul, 01411
Korea, Republic of
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dms90904@gmail.com

Skills

Adaptability

Communication

Computer Skills

Problem Solving

Bio signal Based Stress Monitoring system, Team member

September 2023 — December 2023

Term project for course Bio-signal Measurement and Experimentation Project of 2023-Fall semester

- Measured and analyzed multiple bio-signals to detect stress and relaxation states.
- Developed a real-time stress detection system