Beomseo Choi

E-mail: beomseo0707 at gmail.com
Phone: +82 10-8355-0772

Research Interests

- Deep generative model.
- Advanced AI-driven image editing and enhancement.

Education Experiences

- B.S. in Computer Science, Daejeon University (DJU). — Mar. 2019 - Aug. 2024
  - **GPA: 4.5/4.5**

Publications

- **Beomseo Choi**, Hongjun Kim, and Seung Hyun Jeon*, "LSTM-based Time Series Forecasting of Pulmonary Function Test for COPD Early Diagnosis," *The Journal of Korean Institute of Communications and Information Sciences (J-KICS)* (Scopus). — Mar. 2024

Work Experiences

- Undergraduate research student at Computing & Control Laboratory (CNCL) under the advisory of Prof. Hongjun Kim at DJU. — Sep. 2021 - Aug. 2024
- Intern at The Researcher (TR) corporation. — Sep. 2023 - Dec. 2023
  - Developed a pipeline for deploying machine learning models.
  - Represented the team as an exhibitor at CES 2024, demonstrating AI solutions to global audiences.

Project Experiences

- Development of a Machine Learning-Based Precision Pulmonary Function Testing Device for Enhancing the Screening Rate of COPD in Primary Healthcare Institutions in Vietnam. — Apr. 2022 - Dec. 2023
  - Conducted time-series analysis using Python and PyTorch.
  - Developed and validated an LSTM-based AI model, achieving robust and reliable results despite small and imbalanced datasets.
  - Applied data augmentation to enhance model performance and generalizability.

Teaching Experiences

- C++ Tutor, DJU Tutoring Program. — Apr. 2023 - Jun. 2023

Patents

- Prediction system and method for pulmonary function. — Jan. 2023
  - Application Number: 10-2023-0006195

Honors and Awards

- On-campus Autonomous Driving Car Coding Competition. — Oct. 2021 - Nov. 2021
  - Grand Prize Winner.
  - Autonomous driving based on IR sensors for maze escape.
- Tuition Scholarship for Excellent Academic Records.
  - Awarded six times for outstanding academic performance.

Skills

- Programming Lnaguages: Python, C++.
- Frameworks & Libraries: Pytorch, DirectX 12.
- Tools: Git, Docker.

Language

- TOEIC: 780