

Valiyev Oybek

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EXPERIENCE

Soft Brains

Project Manager

Apr. 2021 – Mar. 2023

Tashkent, Uzbekistan

- Led end-to-end delivery of software projects across Android, backend, and frontend teams

Juhyang Logistics

Team Manager

Jul. 2023 – Aug. 2024

Seoul, South Korea

- Supervised daily logistics operations and team performance

Kumoh National Institute of Technology

AI Researcher, Artificial Intelligence and Pattern Analytics Lab

Aug. 2024 – Present

Gumi, South Korea

- Researching AI and machine learning methods for medical imaging and multimodal data analysis

PROJECTS

Intelligent Industrial Precision Environmental Control System

- Developed an intelligent environmental control system for industrial settings, achieving **temperature stability of ±0.1°C** and **humidity stability of ±1% RH**
- Designed the system for heavy-use industrial environments requiring high precision and long-term operational stability

Multimodal Deep Learning for ADPKD Classification in Precision Medicine

- Developed a multimodal deep learning framework integrating medical imaging and clinical data for ADPKD genotype classification
- Achieved clinically meaningful classification performance; **resulted in a filed patent application**

Hierarchical Multimodal Stacking for ADPKD Genotype Risk Stratification

- Proposed a hierarchical multimodal stacking framework to address radiological mimicry in ADPKD
- Enabled non-invasive triage of high-risk **PKD1-truncating genotypes**, supporting precision medicine decision-making

AI-Based Neurological Prognosis Prediction After Cardiac Arrest

- Developing an automated AI framework for neurological outcome prediction in post-cardiac arrest patients
- Performed brain tissue segmentation using **CT and MRI** to compute **GrayWhite Ratio (GWR)** as a quantitative prognostic biomarker
- Designed a clinically deployable pipeline utilizing **CT-only inference** for real-world emergency settings

EDUCATION

Kumoh National Institute of Technology

Research Student, Artificial Intelligence and Pattern Analytics Lab

Aug. 2024 – Present

Gumi, South Korea

- **Focus:** Artificial Intelligence, Machine Learning, and Medical Image Analysis

SKILLS

Technical Skills : Python, PyTorch, Machine Learning, Deep Learning, Computer Vision, LLM-based RAG, Generative AI, Medical Image Analysis (CT, MRI)

Tools : GitHub, Notion, Slurm

Languages : Korean, English, Uzbek, Tajik, Russian