

MIRSHOIR RUSTAMALIEV

AI/ML Engineer | Sensors & Multimodal AI | LLM and RAG Systems

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Portfolio: mirshoir.github.io/mirshoir-portfolio | GitHub: github.com/Mirshoir | LinkedIn: [mirshoir](#)

Professional Summary

AI/ML engineer experienced in multimodal models, LLM systems, and sensor-based machine learning. Skilled in building end-to-end pipelines across biosignal analysis, geospatial ML, and embedded AI applications. Currently researching compression-based ML for astrophysical data. Seeking a thesis-based MSc to advance work in intelligent sensing and applied machine learning.

Education

B.Sc. Computer Science and Engineering, Sejong University, Seoul, South Korea (Aug 2021 – Feb 2026)

Research Experience

- Research Assistant — Physics & Astronomy Dept (Oct 2025 – Present): Designed ML pipeline for Galaxy Zoo using gzip-NCD; PCA & t-SNE morphology separation.
- Research Assistant — XR Metaverse Center (Mar 2025 – Oct 2025): Multimodal AI tools for Avicenna; GeoAI urban hazard detection.
- Research Assistant — AI/LLM Lab (Sep 2024 – Mar 2025): LLM development, agentic AI workflows, dataset preparation.

Key Projects

- Avicenna Multimodal Biosensor + LLM Assistant
- Flood Hazard Prediction System (GeoAI)
- Galaxy Zoo ML Pipeline (gzip-NCD + PCA/t-SNE)
- AI Banking Assistant (SQL Generator)
- WebRTC Face Detection (Docker + AWS)
- LLaVA Integration / Image Processor Update

Skills

Machine Learning & AI: ML Modeling, LLM Fine-Tuning, NLP, GeoAI, CV, Multimodal AI
Frameworks: Python, PyTorch, FastAPI, LangChain, LLaVA, OpenCV
Tools: AWS/EC2, Docker, Git, SQL, Streamlit

Software: Backend APIs, Databases, Web & Android Apps

Certification

FreeCodeCamp – Machine Learning with Python

Languages

English (Professional), Uzbek (Native), Korean (Professional)

References (Professors)

Prof. Benjamin Huillier — Physics & Astronomy Dept, Sejong University
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Prof. Abolghasem Sadeghi-Niaraki — XR Metaverse Research Center, Sejong University
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Prof. Jamil Hussain — AI/LLM Research, Sejong University
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