Ali Nabipour

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EXPERIENCE

Machine Learning Engineer　　　　　　　　　　　　　　　　　2022 – Present
FANAP Advanced Technology Lab (ZLab)

- ***Persian Automatic Speech Recognition***: Enhanced the Word/Character Error Rate of a Persian ASR system from 15 to 9 using language decoder models.
- ***Content-based Music Recommender***: Implemented a novel recommender system using waveform data exclusively, employing unsupervised contrastive learning.
- ***Banking Conversational Chatbot***: Boosted intent recognition module accuracy by 11% through the implementation of a RoBERTa classifier, replacing the classical model.
- ***Multi-purpose Generative Chatbot***: Developed entreprise chatbots using LLMs, solving hellucination with RAG and finetuning.

Teaching and Research Assistant　　　　　　　　　　　　　　　2022 – 2024
University of Guilan

- Designed/evaluated course projects, created educational videos, and guided students on assignments.
- Developed unsupervised anomaly detection model for sperm morphology, published in a journal.

EDUCATION

Politecnico di Milano　　　　　　　　　　　　　　　　　　　　2024 – Now
M.Sc. in Computer Science (Artificial Intelligence) — GPA: -　　　　*Milan, Italy*

University of Guilan　　　　　　　　　　　　　　　　　　　　　2019 – 2023
B.Sc. in Computer Engineering — GPA: 3.86/4　　　　　　　　　　*Rasht, Guilan*

PUBLICATIONS

- **Nabipour, A.**, Shams Nejati, M. J., Boreshban, Y., & Mirroshandel, S. A. (2024). **Less-supervised learning with knowledge distillation for sperm morphology analysis.** *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization.* DOI — Code

KEY SKILLS

Programming Languages	Python, C++, Java
AI Tools	PyTorch, Huggingface, LangChain, OpenAI
Deployment	AWS, Azure, Docker
Development	PostgreSQL, MongoDB, Chroma, FastAPI, Git
Technical	LLMs, PEFT, RAG, Computer Vision

ACHIEVEMENTS

- **Full Scholarship**, B.Sc, University of Guilan
- **Member of Scientific Association of Computer Engineering**, University of Guilan
- Ranked **10th** in **Regional ACM/ICPC 2020** certificate
- **Natural Language Processing Specialization**, *Coursera, DeepLearning.AI.* certificate
- **Introduction to Data Science in Python**, *Coursera, University of Michigan.* certificate
- **Machine learning**, *Coursera, Andrew Ng.* certificate