

Ali Nabipour

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EDUCATION

University of Guilan

Bachelor of Science in Computer Engineering

2019 – 2023

Rasht, Iran

- GPA: 3.86/4
- Relevant Course Work: Advanced Programming, Data Structure, Algorithm Design, Artificial Intelligence, Fundamentals of Speech and Language Processing, Deep Learning.

RESEARCH INTERESTS

- Machine Learning
- Natural Language Processing
- Computer Vision
- Deep Learning
- Large Language Models
- Biomedical Engineering

PUBLICATION

- **A. Nabipour, M.J. Shams Nejati, Y. Boreshban, S.A. Mirroshandel. Less-Supervised Learning with Knowledge Distillation for Sperm Morphology Analysis** in Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization

EXPERIENCE

Machine Learning Engineer

FANAP Advanced Technology Lab (ZLab)

2022 – Present

- **Persian Automatic Speech Recognition:** Developed a speech-to-text system using transfer learning with Wav2Vec2, and enhanced context accuracy with language models.
- **Content-based Music Recommender:** Developed a novel recommender system using waveform data exclusively, employing unsupervised contrastive learning based on SimCLR.
- **Banking Conversational Chatbot:** Implemented Rasa Core for dialogue management, employed FastText and RoBERTa for intent recognition and language modeling.

Research Assistant

University of Guilan

2022 – 2024

Advisor: Dr. S. A. Mirroshandel

- Developed a **deep learning-based less-supervised approach** for sperm morphology analysis using **knowledge distillation** from pre-trained models, enabling efficient fine-tuning on limited labeled data.
- implemented data augmentation techniques, **adversarial attacks**, and custom loss functions to enhance the robustness and generalization of the model and overcome data scarcity challenges.
- This project's findings were shared through publication in a peer-reviewed academic journal.

Teaching Assistant

University of Guilan

2021 – 2023

- As the head teaching assistant, my role involved designing and evaluating comprehensive course projects, producing educational videos, and providing guidance on student assignments.
- Courses: Artificial Intelligence (Dr. Boreshban), Digital Circuit (Dr. Aminian), Advanced Programming (Dr. Mirroshandel), Principles of Computer & Programming (Dr. Shekarian)

AWARDS AND ACHIEVEMENTS

- **Full Scholarship**, B.Sc, University of Guilan
- **Ranked 4th among B.Sc Computer Engineering Students**, University of Guilan
- **Member of Scientific Association of Computer Engineering**, University of Guilan

KEY SKILLS

Programming Languages	Python, C++, Java
ML Framework	PyTorch, TensorFlow, Huggingface, LangChain
Data Science Tools	Numpy, Pandas, Scikit-Learn
Additional Skills	Linux, Git, Docker, Latex
Technical Expertise	Machine Learning, Deep Learning, Natural Language Processing, Data Structures, Algorithms

CERTIFICATIONS

- **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](#)