Amir Mohammad Ezzati

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EDUCATION	
Sharif University of Technology M.S. in Computer Engineering, Minor in Artificial Intelligen	Tehran, Iran nce and Bioinformatics Sep 2023 – Present
• GPA: 18.82/20 (4.0/4.0)	
University of Guilan B.S. in Computer Engineering	Rasht, Iran Sep 2019 – Aug 2023
 GPA: 19.26/20 (3.91/4.0) Rank 2 among 68 students of the 2019 computer engin 	eering entries.
Research Interest	
 Machine Learning Deep Learning Computer Vision Medical Image Analysis 	 > OOD Generalization > Self Supervised Learning > Machine Learning Safety
 Relevant Coursework Deep Learning Machine Learning Natural Language Processing 	Intelligent Analysis of Biomedical ImagesSecurity and Privacy of Machine LearningArtificial Intelligence
Research Experience	
Graduate Research Assistant Robust and Interpretable Machine Learning lab(RIML lab) Superviser: Dr. MH Rohban	Sharif University of Technology Sep 2023 - Present
Out-of-Distribution generalization in histopathology inOsteoporosis risk factors estimationRenal cancer detection and classifying type of tumors	nages Collaboration with Tehran University of Medical Sciences Collaboration with Iran University of Medical Sciences
Undergraduate Research Assistant Machine Learning reseaarcher Supervisor: Dr. SA Mirroshandel	University of Guilan Oct 2022 - Oct 2023
Data-Efficient human sperm abnormality detection usinHuman sperm abnormality detection using Meta-LearnProducing the plural of Arabic singular words	ng Uncertainty Sampling(Active Learning) ing(MAML approach)
Teaching Experience	
Sharif University of Technology <i>Teaching Assistant</i>	
Machine LearningIntelligent Analysis of Biomedical Images	Dr. Sharifi Zarchi — Fall 2024 Dr. Rohban — Fall 2024
University of Guilan Teaching Assistant	

- Microelectronic Circuits
- Artificial Intelligence
- Digital Circuits
- Advanced Programming (in Java)

Dr. Aminian — Winter 2023 Dr. Boreshban — Fall 2022 Dr. Aminian — Fall 2022 Dr. Mirroshandel — Winter 2022

Projects	
 Data-Efficient human sperm abnormality detection using Uncertainty Sampling (Active Learning) GitHub 	May 2024 - Sep 2024
 Retrieval Augmented Generation with LLMs to Detect DSM-5 Disorders The project focuses on improving LLM models to accurately detect psychological disorders (Retrieval-Augmented Generation) pipeline, with the DSM-5 as the reference for retrieval. ♥ GitHub 	July 2024 s by using a RAG
 Brain MRI Segmentation using Diffusion Probabilistic Model This project implements a DPM-based model for brain tumor segmentation over MRI image "MedSegDiff: Medical Image Segmentation with Diffusion Probabilistic Model" paper. ♥ GitHub 	Feb 2024 ges based on
 Graph-Level Classification of Histopathology Images using Graph Neural Network This project implements nuclei extraction from histopathology images, a GCN model for n GCN-based graph prediction model with global pooling for graph-level embeddings. G GitHub 	Dec 2023 ode embeddings, and a
 Breast Cancer Classification using Multiple Instance Learning This project employs an attention-based deep multiple instance learning architecture to cla histopathology images at different magnification levels as benign or malignant tumors. ♥ GitHub 	Dec 2023 assify and localize
 Human Sperm Abnormality Detection using Meta-Learning This project uses the MAML algorithm with Learn2Learn and PyTorch to create a meta-leaperforms well on three tasks: sperm head, acrosome, and vacuole abnormality detection. GitHub 	Jun 2023 - Dec 2023 earning model that

July 2023

Apr 2023

Sep 2019

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, PHP, SQL (Postgres) ML Frameworks: PyTorch, TensorFlow, Scikit-learn, Keras Libraries: Pandas, NumPy, Matplotlib, Seaborn, OpenCV, librosa, Hugging Face Developer Tools: Git, Github, VS Code, Google Colab, Kaggle, Visual Studio, PyCharm, IntelliJ Web Development: Django, Laravel, React, HTML/CSS, JavaScript

HONORS AND AWARDS

Highly Ranked in Bachelor of Computer Engineering

• Highly ranked among 68 students of the 2019 computer engineering entries at University of Guilan

Highly Talented Student Admission

• I was admitted to the Master's degree program in Computer Engineering with a focus on Artificial Intelligence and Bioinformatics at Sharif University of Technology. I was also accepted into other programs and universities but withdrew due to my strong passion for this field.

Tuition Waiver, B.Sc, University of Guilan

CERTIFICATIONS

Deep Learning Stanford University and DeepLearning.AI \mathcal{O} Verification	Nov 2022
• Instructor: Andrew Ng	
Reinforcement Learning University of Alberta 🔗 Verification	$\mathrm{Sep}\ 2022$
• Instructor: Martha White, Adam White	
Machine Learning DeepLearning.AI 🔗 Verification	$\mathrm{Sep}\ 2022$

• Instructor: Andrew Ng