

Farnaz Sadat Mirnezami

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EDUCATION

B.Sc in Computer Engineering

University of Guilan, Rasht, Iran

- GPA: 3.68/4 (17.69/20)
- Last two years GPA: 3.8/4

Sep 2019 – Aug 2023

Diploma in Mathematics and Physics

Fateme Alzahra High School

- GPA: 4/4 (19.75/20)

Sep 2016 – Jun 2019

RESEARCH INTERESTS

- Machine Learning
- Natural Language Processing
- Deep Learning
- Computational Linguistic
- Computer Vision

RESEARCH PAPERS

PsychoLex: Unveiling the Psychological Mind of Large Language Models (Accepted) | [Pre-print](#)

MA Abbasi, FS Mirnezami, H Naderi

Aug 2024

WORK EXPERIENCE

Machine Learning Researcher

ISACO, Tehran, Iran

- I worked on analyzing time series data using Machine Learning methods.

Dec 2023 – Apr 2024

SELECTED PROJECTS ([More Projects on GitHub](#))

Brain Tumor Detection and Classification | [GitHub](#)

- This project, consists of a deep learning models to identify multiclass (meningioma, glioma, and pituitary) brain tumors, and an U-Net model for image segmentation.

Sentence Similarity Classification | [GitHub](#)

- Using RNNs, we developed a model that can determine similarity between two sentences and deal with Data Labeling, Text Processing and Classification Networks.

Multi-Class Weather Classification | [GitHub](#)

- In this project, we have trained a CNN model that can classify image into sunrise, cloudy, shiny and rainy categories based on the weather.

Students' Academic Performance | [GitHub](#)

- In this project, I developed a custom Neural Network from scratch and with ML frameworks to predict whether a student - based on educational characteristics - will fail or pass.

Time Series Forecasting | [GitHub](#)

- Using DL and ML models, I analyzed multivariate time series data and predicted future demand for the next months based on historical data from several months prior.

TEACHING ASSISTANT EXPERIENCE

Advanced Programming | University of Guilan | Instructor: Dr. A. Khozaei

Fall 2021

- Designing programming assignments and projects

Algorithm Design | University of Guilan | Instructor: Dr. A. Khozaei

Fall 2021

- Preparing assignments and projects, assessing assignments, grading students' performance

Formal Languages and Automata | University of Guilan | Instructor: Dr. S. M. Shekarian

Spring 2022

- Preparing assignments, grading students' assignments

Computer Architecture University of Guilan Instructor: Dr. H. Ahmadifar	Spring 2022
<ul style="list-style-type: none"> Assessing assignments, grading students' project 	
Digital System Design Teaching Assistant University of Guilan Instructor: Dr. M. Aminian	Fall 2022
<ul style="list-style-type: none"> Solving students' problem, grading students' project 	
Artificial Intelligence Teaching Assistant University of Guilan Instructor: Dr. Y. Boreshban	Fall 2022
<ul style="list-style-type: none"> Grading students' project, providing feedback on assignments 	
System Analysis and Design Teaching Assistant University of Guilan Instructor: Dr. F. Feyzi	Fall 2022
<ul style="list-style-type: none"> Guiding students throughout the project, grading students' project, 	

HONORS AND AWARDS

Top 1% among 164,278 participants in the Iranian University Entrance Exam for undergraduate program, Iran	2019
Receiving full scholarship from University of Guilan for the undergraduate program (Tuition Waiver)	2019
Accepted in first round of the Khwarizmi Youth Festival	2018
Attending in 2 nd National Scholastic Festival of Ibn Sina for creating line follower robot	2017

SKILLS

- Programming Languages:** Python, Java, C++, VHDL
- Machine Learning Frameworks:** TensorFlow, Keras, Pytorch, Huggingface
- Data Visualization:** Pandas, Numpy, Seaborn, Matplotlib, Scikit-learn
- Web Development:** HTML, CSS, MySQL
- Extra Tools:** Git, Latex
- Others:** Problem Solving, Teamworking, Teaching

CERTIFICATES

- Neural Network and Deep Learning** | Instructor: Andrew Ng | [Certificate](#)
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization** | Instructor: Andrew Ng | [Certificate](#)
- Structuring Machine Learning Projects** | Instructor: Andrew Ng | [Certificate](#)
- Supervised Machine Learning : Regression and Classification** | Instructor: Andrew Ng | [Certificate](#)
- Advanced Learning Algorithms** | Instructor: Andrew Ng | [Certificate](#)
- Unsupervised Learning, Recommenders, Reinforcement Learning** | Instructor: Andrew Ng | [Certificate](#)
- Convolutional Neural Networks** | Instructor: Andrew Ng | [Certificate](#)
- Sequence Models** | Instructor: Andrew Ng | [Certificate](#)

SELECTED COURSES

- Advanced Programming: 20, Engineering Probability and Statistics: 20, Algorithm Design: 19.25, Database: 20, Software Testing: 20, Artificial Intelligence and Expert Systems: 20

LANGUAGES

- English:** Fluent (IELTS : To be taken on October 2024)
- Persian:** Native

REFERENCES

- Dr. Mahdi Aminian** | Email: mahdi.aminian@guilan.ac.ir | ([Google scholar](#))
Assistant Professor, Department of Computer Engineering, University of Guilan, Rasht, Iran
- Dr. Hassan Naderi** | Email: naderi@iust.ac.ir | ([Google scholar](#))
Assistant Professor, Department of Computer Engineering, Iran University of Science and Technology, Tehran, Iran
- Dr. Farid Feyzi** | Email: feizi@guilan.ac.ir | ([Google scholar](#))
Assistant Professor, Department of Computer Engineering, University of Guilan, Rasht, Iran
- Dr. Seyed Mohammadhossein Shekarian** | Email: shekarian@guilan.ac.ir | ([Google scholar](#))
Assistant Professor, Department of Computer Engineering, University of Guilan, Rasht, Iran