

Farnaz Sadat Mirnezami

+989360557341 | farnaz.mirnezami@gmail.com | farnaz-mirnezami | farnazmnz
farnazmnz.github.io Iran

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
- Deep Learning
- Computational Linguistic
- Computer Vision
- Natural Language Processing
- Large Language model

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

<ul style="list-style-type: none"> Top 1% among 164,278 participants in the Iranian University Entrance Exam for undergraduate program, Iran 	2019
<ul style="list-style-type: none"> Receiving full scholarship from University of Guilan for the undergraduate program (Tuition Waiver) 	2019
<ul style="list-style-type: none"> Accepted in first round of the Khwarizmi Youth Festival 	2018
<ul style="list-style-type: none"> Attending in 2nd National Scholastic Festival of Ibn Sina for creating line follower robot 	2017

SKILLS

<ul style="list-style-type: none"> 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 	
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CERTIFICATES

<ul style="list-style-type: none"> 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 	
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SELECTED COURSES

<ul style="list-style-type: none"> Advanced Programming: 20, Engineering Probability and Statistics: 20, Algorithm Design: 19.25, Database: 20, Software Testing: 20, Artificial Intelligence and Expert Systems: 20 	
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LANGUAGES

<ul style="list-style-type: none"> English: Fluent (IELTS Score : Overall 7 - L : 8.5 , S : 7, R : 6.5 , W : 6) 	<ul style="list-style-type: none"> Persian: Native
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REFERENCES

<ul style="list-style-type: none"> 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 	
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