

Farnaz Sadat Mirnezami

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EDUCATION

B.Sc in Computer Engineering

Sep 2019 – Aug 2023

University of Guilan, Rasht, Iran

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

Diploma in Mathematics and Physics

Sep 2016 – Jun 2019

Fateme Alzahra High School

- GPA: 4/4 (19.75/20)

RESEARCH INTERESTS

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

RESEARCH PAPERS

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

Aug 2024

MA Abbasi, FS Mirnezami, H Naderi

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

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.

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

TEACHING ASSISTANT EXPERIENCE

Advanced Programming University of Guilan Instructor: Dr. A. Khozaei	Fall 2021
<ul style="list-style-type: none">Designing programming assignments and projects	
Algorithm Design University of Guilan Instructor: Dr. A. Khozaei	Fall 2021
<ul style="list-style-type: none">Preparing assignments and projects , assessing assignments, grading students' performance	
Formal Languages and Automata University of Guilan Instructor: Dr. S. M. Shekarian	Spring 2022
<ul style="list-style-type: none">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,	

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](#)

HONORS AND AWARDS

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

WORK EXPERIENCE

Machine Learning Researcher	Dec 2023 – Apr 2024
ISACO (Iran Khodro Spare Parts and After-Sale Services Co), Tehran, Iran	
<ul style="list-style-type: none">I worked on analyzing time series data using Machine Learning methods.	

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