

# Farnaz Sadat Mirnezami

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farnazmnz.github.io Iran

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

## RESEARCH PAPERS

### PsychoLex: Unveiling the Psychological Mind of Large Language Models (Published)

Nov 2024

MA Abbasi, FS Mirnezami, H Naderi

## WORK EXPERIENCE

### Machine Learning Researcher

Dec 2023 – Apr 2024

ISACO, Tehran, Iran

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

## 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

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

## HONORS AND AWARDS

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

## SKILLS

<ul style="list-style-type: none"> <li><b>Programming Languages:</b> Python, Java, C++, VHDL</li> <li><b>Machine Learning Frameworks:</b> TensorFlow, Keras, Pytorch, Huggingface</li> <li><b>Data Visualization:</b> Pandas, Numpy, Seaborn, Matplotlib, Scikit-learn</li> <li><b>Web Development:</b> HTML, CSS, MySQL</li> <li><b>Extra Tools:</b> Git, Latex</li> <li><b>Others:</b> Problem Solving, Teamworking, Teaching</li> </ul>	
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## CERTIFICATES

<ul style="list-style-type: none"> <li><b>Neural Network and Deep Learning</b>   Instructor: Andrew Ng   <a href="#">Certificate</a></li> <li><b>Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization</b>   Instructor: Andrew Ng   <a href="#">Certificate</a></li> <li><b>Structuring Machine Learning Projects</b>   Instructor: Andrew Ng   <a href="#">Certificate</a></li> <li><b>Supervised Machine Learning : Regression and Classification</b>   Instructor: Andrew Ng   <a href="#">Certificate</a></li> <li><b>Advanced Learning Algorithms</b>   Instructor: Andrew Ng   <a href="#">Certificate</a></li> <li><b>Unsupervised Learning, Recommenders, Reinforcement Learning</b>   Instructor: Andrew Ng   <a href="#">Certificate</a></li> <li><b>Convolutional Neural Networks</b>   Instructor: Andrew Ng   <a href="#">Certificate</a></li> <li><b>Sequence Models</b>   Instructor: Andrew Ng   <a href="#">Certificate</a></li> </ul>	
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## SELECTED COURSES

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

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

<ul style="list-style-type: none"> <li><b>Dr. Mahdi Aminian</b>   Email: mahdi.aminian@guilan.ac.ir   (<a href="#">Google scholar</a>) Assistant Professor, Department of Computer Engineering, University of Guilan, Rasht, Iran</li> <li><b>Dr. Hassan Naderi</b>   Email: naderi@iust.ac.ir   (<a href="#">Google scholar</a>) Associate Professor, Department of Computer Engineering, Iran University of Science and Technology, Tehran, Iran</li> <li><b>Dr. Farid Feyzi</b>   Email: feizi@guilan.ac.ir   (<a href="#">Google scholar</a>) Assistant Professor, Department of Computer Engineering, University of Guilan, Rasht, Iran</li> <li><b>Dr. Seyed Mohammadhossein Shekarian</b>   Email: shekarian@guilan.ac.ir   (<a href="#">Google scholar</a>) Assistant Professor, Department of Computer Engineering, University of Guilan, Rasht, Iran</li> </ul>	
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