Farnaz Sadat Mirnezami

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farnazmnz.github.io

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

RESEARCH PAPERS

PsychoLex: Unveiling the Psychological Mind of Large Language Models (Under Review) **|** Pre-print **Aug 2024**
MA Abbasi, FS Mirnezami, H Naderi

HONORS AND AWARD

- 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 graduate 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

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**
- 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**
- Assessing assignments, grading students' project

Digital System Design Teaching Assistant | University of Guilan | Instructor: Dr. M. Aminian **Fall 2022**
- Solving students' problem, grading students' project

Artificial Intelligence Teaching Assistant | University of Guilan | Instructor: Dr. Y. Boreshban **Fall 2022**
- Grading students' project, providing feedback on assignments

System Analysis and Design Teaching Assistant | University of Guilan | Instructor: Dr. F. Feyzi **Fall 2022**
- Guiding students throughout the project, grading students' project,

CERTIFICATES

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

WORK EXPERIENCE

Machine Learning Researcher **Dec 2023 – Apr 2024**
ISACO (Iran Khodro Spare Parts and After-Sale Services Co), Tehran, Iran
- 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**
  Assistant Professor, Department of Computer Engineering, University of Guilan, Rasht, Iran
  Email: mahdi.aminian@guilan.ac.ir | (Google scholar)
- **Dr. Seyed Mohammadhossein Shekarian**
  Assistant Professor, Department of Computer Engineering, University of Guilan, Rasht, Iran
  Email: shekarian@guilan.ac.ir | (Google scholar)
- **Dr. Farid Feyzi**
  Assistant Professor, Department of Computer Engineering, University of Guilan, Rasht, Iran
  Email: feizi@guilan.ac.ir | (Google scholar)
- **Dr. Hassan Naderi**
  Assistant Professor, Department of Computer Engineering, Iran University of Science and Technology, Tehran, Iran
  Email: naderi@iust.ac.ir | (Google scholar)