Shakiba Amirshahi

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Education

B.Sc. in Computer Engineering *Amirkabir University of Technology, Tehran, Iran*
Bachelor's degree program *Sep 2018 - Apr 2023*
GPA: 18.66/20 (4.0/4.0)
Bachelor project: Sentiment Analysis of Tweets about COVID-19 Vaccines using Deep Learning

High School Diploma, Mathematics. *Sianat High School*
High school's diploma program *2014 -2018*
GPA: 19.81/20

Research Interests

- Natural Language Processing
- Machine Learning
- Artificial Intelligence
- Data Mining
- Information Retrieval
- Machine Learning for Healthcare

Work Experience

Data Scientist *January 2023 - September 2023*
IELTS Tehran *Tehran, Iran*

- Skills: Data Mining, Machine Learning, TensorFlow, Python, Google Studio
- Analyzing candidate's data
- Uncovering exciting patterns
- Determining key consumer characteristics and preferences

Junior Python Developer *July 2022 - December 2022*
Institute for Research In Fundamental Science (IPM) *Tehran, Iran*

- Skills: Machine Learning, Python
- Developing a package for Support Vector Machine classifiers with some novel orthogonal kernels
- Provides a complete path of using the SVM classifiers from normalization to calculation and the final evaluation

Frontend Developer Intern *July 2021 - September 2021*
Atrovan *Tehran, Iran*

- Skills: Visual Studio, React.js
- Internship as frontend developer working with ReactJS

Teaching Experience

Winter 2023	**Teaching Assistant**, Compiler Design, Under supervision of Prof. Saeedeh Momtazi
Winter 2023	**Teaching Assistant**, Data Mining, Under supervision of Prof. Ehsan Nazerfard
Winter 2023	**Teaching Assistant**, Principles of Computational Intelligence, Under supervision of Prof. Mohammad Mahdi Ebadzadeh
Fall 2022	**Teaching Assistant**, Principles of Computational Intelligence, Under supervision of Prof. Mohammad Mahdi Ebadzadeh
Winter 2022	**Teaching Assistant**, Principles of Computational Intelligence, Under supervision of Prof. Mohammad Mahdi Ebadzadeh
Winter 2021	**Teaching Assistant**, Principles of Artificial Intelligence, Under supervision of Dr. Behnam Roshanfekr
Fall 2020	**Teaching Assistant**, Advanced Programming, Under supervision of Dr. Ehsan Edalat

Technical Skills

Programming Languages	Python, Java, C, Javascript, HTML, CSS, MySQL
Python Libraries	TensorFlow, Keras, Numpy, Scikit-learn, Pandas, Matplotlib, Gensim, NLTK
Operating Systems	Windows, Linux/Ubuntu
Tools	Google Colab, Visual Studio Code, PyCharm, Git, Android Studio, JupyterLab, IntelliJ, Docker, Minikube, Apache Hadoop, Webstorm

Selected Projects

Sentiment Analysis of Tweets about COVID Vaccines Using Deep Learning *Winter 2023*
(Bachelor Thesis)
Description: Developing a sentiment analysis system using deep learning techniques for COVID-19 vaccine tweets, incorporating convolutional neural networks, long short-term memory neural networks, and word embeddings for accurate sentiment classification. (code)

ORSVM Package *Summer2022- Winter 2022*
(Institute for Research in Fundamental Science)
Description: Developing the ORSVM package in Python, which is a free software package that provides Support Vector Machine classifiers with novel orthogonal polynomial kernels. (code)

Diabetes Detection *Winter 2022*
(Data Mining course project)
Description: Developing a classifier for detecting diabetes and pre-diabetes symptoms in the given dataset. The aim of this project is to utilize the XGBoost algorithm to classify the data and determine the presence/absence of diabetes. (code)

Evolutionary Game *Fall 2021*
(Computational Intelligence course project)
Description: Incorporating an evolutionary algorithm for training a neural network in an environment where sufficient training data is not available. (code)

Inverted Pendulum *Fall 2021*
(Computational Intelligence course project)
Description: Designing and implementing an inverted pendulum with a fuzzy expert system. (code)

Fruit Classifier *Fall 2021*
(Computational Intelligence course project)
Description: Designing and implementing a neural network from scratch for classification based on gradient descent using the Fruit 360 dataset to learn fundamental concepts of image processing. (code)

Information Retrieval System *Fall 2021*
(Information Retrieval course project)
Description: Developing a search engine for retrieving textual documents in a way that allows users to enter their queries and the system to respond with relevant documents. (code)

Find Poets *Fall 2020*
(Principles of Artificial Intelligence course project)
Description: Designing a program that can guess the poet's name by receiving a line of poetry. For this task, a collection of poems by three Iranian poets was provided. (code)

Colored Sudoku *Fall 2020*
(Principles of Artificial Intelligence course project)
Description: This project aims to create an advanced version of the Sudoku game that includes the coloring of cells by employing the Backtracking algorithm along with the MRV (Minimum Remaining Values) and Degree heuristic. (code)

Certificates

- **Natural Language Processing Specialization**, Coursera, Nov 2023, (In Progress)
- **Improving Deep Neural Network**, Coursera, Sep 2022 (certificate)
- **Structuring Machine Learning Projects**, Coursera, Sep 2022 (certificate)
- **Neural Network and Deep Learning**, Coursera, Apr 2022 (certificate)
- **Machine Learning**, Coursera, Feb 2022 (certificate)
- **Artificial Intelligence in Medicine, Applications and Limitations**, Amirkabir Artificial Intelligence Summer Summit of 2020's Workshop, Aug 2020 (certificate)
- **Dive into Deep Learning**, Amirkabir Artificial Intelligence Summer Summit of 2020's Workshop, Aug 2020 (certificate)
- **Basic Web Training**, Students' Scientific Chapter of the Computer Engineering Department, Aug 2020 (certificate)

Languages

Persian	Native
English	IELTS overall band score 7 (Listening: 8.5, Reading:7, Speaking:6.5, Writing:6.5)

References

Mohammad Rahmati, Associate Professor
Member of Artificial Intelligence group, Computer Engineering Dept., AUT, Tehran, Iran
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Ehsan Nazerfard, Assistant Professor
Member of Artificial Intelligence group, Computer Engineering Dept., AUT, Tehran, Iran
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Hamed Farbeh, Assistant Professor
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