

TAHA MOUSAVI

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EDUCATION

Shahid Beheshti University, Tehran, Iran

Bachelor of Science (BSc.), Computer Engineering

Sep. 2019 - Present

GPA: 3.83/4

National Organization for Development of Exceptional Talents

High School Diploma in Mathematics and Physics

Sep 2016 - Sep 2019

GPA: 19.9/20 (3.98/4)

RESEARCH INTERESTS

- Artificial Intelligence
- Machine Learning
- Natural language processing
- Computer vision
- Algorithms analysis
- Database Management

HONORS & AWARDS

4th place at Amirkabir Artificial Intelligence Competitions (AAIC)

Achieved 4th place for intent detection in complex queries in Hamrah-e-Aval chatbots

Mar. 2023 - Apr. 2023

6th place, out of 110 undergraduate students in Computer Engineering

At Shahid Beheshti University

Oct. 2019 - Oct. 2023

RESEARCH EXPERIENCES

Research Assistant, Natural Language Processing Lab

Contributed to a project focused on complex query intent detection in chatbots

Mar. 2023 – Present

- Performed data pre-processing tasks, including tokenization, stemming, and data normalization
- Implemented noise removal, TF-IDF, data augmentation, and learning rate scheduling techniques
- Utilized various machine learning and deep learning models, including ParsBERT, RoBERTa, XGBoost, SVM, and Random Forest, achieving an accuracy of 93%

B.Sc. Thesis

A Deep Learning-Based Method for Parkinson's Disease Diagnosis from EEG Signals

Jun. 2023 - Present

- Enhanced an existing CNN model with the SincNet architecture, resulting in an accuracy of 99%

PROJECTS

User Audience Prediction using NLP Approaches - AI course | Python, Pandas, Numpy, scikit-learn, Parsivar

Jan. 2022

- Developed an end-to-end model for predicting user audience questions using Naive Bayes algorithm and achieved an accuracy of 0.83
- Contributed to the development of the faculty chatbot and intelligent student assistant system, Soha (Intelligent Communication System)

Face Verification System | Python, Keras, TensorFlow, OpenCV, NumPy, Pandas

Jan. 2023

- Implemented a face verification system using FaceNet and achieved face feature extraction from images
- Computer Vision Course

Anomaly Detection in a Security Camera System | Python, scikit-learn, NumPy, Pandas, Matplotlib

Jul. 2023

- Performed data preprocessing, feature extraction, and implemented unsupervised machine learning techniques for anomaly detection
- Utilized techniques like PCA, feature selection based on normal distribution, Gaussian method, DBSCAN, and Isolation Forest
- Machine Learning Course Final Project

Software Testing using Selenium | Python, Selenium

Jul. 2023

- Developed automated testing scenarios using Selenium to validate functionality and report bugs for improved product quality
- Software Testing Course Final Project

Shopping Search Engine, Torob | ReactJS, NodeJS

Jul. 2022

- Built a shopping website for browsing and purchasing products using ReactJS for frontend and NodeJS for backend
- Internet Engineering Course Final Project

Game & Entertainment Network, Plato) | Java, Android

Jul. 2020

- Implemented a game and entertainment network using sockets to send and receive data between the server and clients in an Android application
- Advanced Programming Course Final Project

TEACHING EXPERIENCES

Advanced programming | Head TA

Sep. 2021 – Jun. 2022

By Dr. Vahidi Asl

- Leading and managing a group of 5 TAs
- Mentoring students to build a mobile application
- Designer and grader of final project and assignments
- Conducted TA classes to assist students
- +50 students

Advanced programming | TA

Feb. 2021 – Jan. 2022

By Dr. Vahidi Asl

- Designer and grader of final project and assignments
- Conducted TA classes to assist students
- +50 students

Basic Programming | TA

Sep. 2020 – Jun. 2021

By Dr. AliAkbari

- Designer and grader of the assignments
- Conducted TA classes to assist students
- +80 students

Advanced programming | TA

Sep. 2021 – Jan. 2022

By Dr. AliAkbari

- Designer and grader of final project and assignments
- Conducted TA classes to assist students
- +50 students

Software Engineering | TA

Sep. 2023 – Present

By Dr. Alidoost Nia

- Designer and grader of final project and assignments
- Conducted TA classes to assist students
- +50 students

Operating Systems | TA

Sep. 2022 – Jun. 2023

By Dr. Ebrahimi Moghadam

- Designer and grader of assignments
- Conducted TA classes to assist students
- +50 students

WORK EXPERIENCES

Faranegar Company. IT, Software and Internet Services

Feb. 2021 – Present

Developer and Tester

Tehran, Iran

- Designed efficient algorithms for coding, decoding, and compressing barcode, text, and JSON files
- Developed mobile applications and web apps, including online check-in systems for travelers
- Contributed to software test design and execution, ensuring software quality

Mohaymen ICT

Jul. 2021 – Sep. 2021

Intern

Tehran, Iran

- Acquired knowledge in inverted index algorithms, code review, and unit testing
- Gained expertise in data binding, multi-threading, networks, services, and SQL in Android programming

TECHNICAL SKILLS

Languages: Python, Java, Dart, C++, SQL

Frameworks: Numpy, Pandas, OpenCV, PyTorch, Tensorflow, Scikit-learn

Developer Tools: Jupyter, VS Code, MongoDB Compass, Selenium, and Android studio

Other Technologies/Frameworks: Linux, Git, GitHub, Gira

RELEVANT COURSES

Machine learning Specialization - Coursera