

Afshin Shahrestani

COMPUTER ENGINEER

Mashhad, Iran

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Research Interests

- Machine Learning - Data Mining
- Deep Learning - NLP
- Information Retrieval - Recommender Systems - Social Media Analysis

Education

Ferdowsi University of Mashhad

B.S. IN COMPUTER ENGINEERING

Mashhad, Iran

Sep. 2016 - PRESENT

- Total GPA 17.31 out of 20 (GPA 3.58 in 4.0 scale)
- Last Semester GPA 19.56 (GPA 4.0 in 4.0 scale)
- Related Courses: Data Mining - Computer Vision - Database - Artificial Intelligence & Expert systems - Computational Intelligence - Information Retrieval and Web Searching

Shahid Beheshti High School(NODET)

HIGH & MIDDLE SCHOOL DIPLOMA

Sabzevar, Iran

2012 - 2016

- Total GPA 19.16 out of 20

Selected Projects

Behamjar - Anomaly Detection in Power Consumption Data

RESEARCH ASSISTANT

Mashhad, Iran

Dec. 2020 - PRESENT

- Developed a platform to detect anomalies in electricity usage data of real users
- This project is being developed using Python, Spark and Machine Learning
- **1 conference paper has been submitted to the SCIoT 2021 based on this project, which was accepted**

Multilingual Hate Speech Detection

RESEARCH ASSISTANT

Mashhad, Iran

Nov. 2020 - PRESENT

- Testing different language models and techniques in order to detect hateful language
- The project is being developed using transformers such as mBERT and XLM-RoBERTa
- The code for this project is written in Python

Semantic Clustering of Students' research fields

RESEARCH ASSISTANT

Mashhad, Iran

Nov. 2020

- Clustering university students based on their fields of work and their semantic relation to one another
- The code for this project was written in Python

Analysing E-commerce Website Data

COURSE PROJECT

Mashhad, Iran

Oct. 2020 - Dec. 2020

- Reprocessing, clustering and classifying users' and transactions' data on Digikala's dataset
- This project was done as the course project of Fundamentals of Data Mining course in the university using Python

Better Exam

MEMBER OF THE DEVELOPMENT TEAM (AZURE AI HACKATHON 2021)

Mashhad, Iran

Mar. 2021

- An exam hosting service for the visually impaired
- We used Azure Cognitive Services to create a fully audio-based exam hosting platform
- Azure's Text-to-Speech and Speech-to-Text services were used in the process
- The project was developed mainly with Python

Work Experience

FUM Software Quality Lab

UNDERGRADUATE RESEARCH ASSISTANT

May. 2019 - Apr. 2021

- Worked on Microservice architecture
- Worked on Microservice design patterns and their relation to Object Oriented GoF design patterns
- Worked with Java, Spring, Spring Boot and UML Diagrams

*Under supervision of Doctor
Rasoolzadegan
Mashhad, Iran*

Teaching Experience

FOR MASTER STUDENTS

Object Oriented Designs of Systems by Prof. A. Rasoolzadegan, FUM

Fall 2019

FOR BACHELOR STUDENTS

Object Oriented Design by Prof.A.Rasoolzadegan, FUM

Spring 2020

Languages and Machines Theory(4 Semesters) by Prof.A.Savadi, FUM

Fall 2018 - Spring 2020

Languages and Machines Theory by Prof.A.Abrishami, FUM

Spring 2020

Data Structures by Prof.M.Allahbakhsh, FUM

Fall 2019

Design & Analysis of Software Systems(2 Semesters) by Prof.A.Rasoolzadegan, FUM

Fall 2018 - Spring 2019

Software Engineering Lab(2 Semesters) by Prof.A.Rasoolzadegan, FUM

Fall 2018 - Spring 2019

Database(2 Classes) by Prof.F.Ensan, FUM

Fall 2020

Skills

Programming Languages Python, C, Java, JavaScript, Dart

Technologies and Frameworks NumPy, Pandas, NLTK, Transformers, Statsmodels, PyTorch, TensorFlow, scikit-learn, Pyspark, Matplotlib

Database MySQL, MongoDB, SQL Server, SQLite

Languages Persian: Native

English: Fluent (Toefl score: 116 (Reading 30 Listening 27 Speaking 29 Writing 30) - Duolingo english test score: 140)

References

Dr. Abbas Rasoolzadegan Associate Professor, Computer Eng. Department.Ferdowsi University Of Mashhad , rasoolzadegan@um.ac.ir

Dr. Mohammad Hossein Yaghmaee Moghaddam Professor, Computer Eng. Department.Ferdowsi University Of Mashhad , hyaghmae@ferdowsi.um.ac.ir

Dr. Faezeh Ensan Assistant Professor, Department of Electrical and Computer Engineering.Ryerson University , fensan@ee.ryerson.ca