AFSHIN SHAHRESTANI

Ferdowsi University of Mashhad (FUM)

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in afshin-shahrestani ashthefallen

EXPERIENCE

Research Assistant

IP-PBX Lab (FUM)

December 2020 – Present Mashhad, Iran

- Research and development of anomaly detection in power consumption data.
- Working with team on design, development of an anomaly detection platform as a service.
- Experience with machine learning, data mining and big data handling.

Research Assistant

SQLab (FUM)

May 2019 - April 2021 Mashhad, Iran

- Research on microservice architecture design patterns and their relation to Object Oriented GoF patterns
- Working with team on design and development of a benchmark for microservice architecture design pattern detection

Teaching Assistant

Ferdowsi University of Mashhad

Fall 2018 - Fall 2020 Mashhad, Iran

- Object Oriented Designs of Systems (Master's class)
- Object Oriented Designs of Systems (Bachelor's class)
- Languages and Machines Theory (5 Classes)
- Data Structures
- Design & Analysis of Software Systems (2 Semesters)
- Software Engineering Lab (2 Semesters)
- Database (2 Classes)

PUBLICATIONS

Conference Proceedings

- Rahimi, Alireza et al. (2021). "Filter Based Time-Series Anomaly Detection in AMI using AI Approaches". In: *2021 5th International Conference on Internet of Things and Applications (IoT)*, pp. 1–6. DOI: 10.1109/IoT52625.2021.9469717.

SKILLS

- Python, C, Java, JavaScript, Dart
- NumPy, Pandas, Keras, NLTK, Transformers, Statsmodels
- PyTorch,TensorFlow, scikit-learn, Pyspark, Matplotlib
- MySQL, MongoDB, SQL Server, SQLite
- Languages: Persian (Native), English (Toefl: 116 (Reading 30 Listening 27 Speaking 29 Writing 30)

EDUCATION

BCE - 17.31/20 (3.58 GPA)

Ferdowsi University of Mashhad

September 2016 – Currently

- Last Semester GPA 19.56 (GPA 4.0)
- Related Courses: Data Mining - Database - Computer Vision - Artificial Intelligence - Computational Intelligence - Information Retrieval

PROJECTS

Behanjar - Anomaly Detection in Power Consumption Data

- Developed a platform to detect anomalies in power consumption data of real users created using Python, Spark and Machine Learning

Multilingual Hate Speech Detection

- Testing different language models and techniques in order to detect hateful language using transformers such as mBERT& XLM-RoBERTa

Semantic Clustering of Students' research fields

- Clustering university students by their fields and the fields semantic relation to each other

Analysing E-commerce Website Data

- Preprocessing, clustering and classifying users' and transactions' data on Digikala's dataset for Data Mining course

Better Exam

- An exam hosting service for the visually impaired built using Azure Cognitive Services' Text-to-Speech and Speech-to-Text, developed for AZURE AI HACKATHON 2021.

REFEREES

Prof. Mohammad Hossein Yaghmaee Moghaddam
Computer Eng. Department - FUM
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Prof. Abbas Rasoolzadegan
Computer Eng. Department - FUM
@ rasoolzadegan@um.ac.ir

Prof. Faezeh Ensan
Department of Electrical and Computer Engineering - Ryerson University
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