

Zahra Habibzadeh

GRADUATE STUDENT · RESEARCH ASSISTANT

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“Be the change that you want to see in the world.”

Education

University of Tehran

M.SC. IN ARTIFICIAL INTELLIGENCE AND ROBOTICS

- Overall GPA: 18.64/20 (4/4)

Tehran, Iran

2020 - present

University of Mazandaran

B.S. IN COMPUTER ENGINEERING

- Thesis: Desining new Article site by using PHP and SQL
- Overall GPA (Last two years): 4/4 last two years
- 2nd Rank among Graduated Bachelor Students based on Overall GPA among 70 students

Babolsar, Iran

2012 - 2016

Research Interests

Social Networks Behavioral Analysis

Machine Learning Predictive Analysis

Data science Exploratory Data Analysis

Deep Learning RNNs in Finance ML

Research Experience

Research Assistant

SOCIAL NETWORKS LAB, UNIVERSITY OF TEHRAN

- Compared different methods of Influence Maximization Problem in Social Networks in a systematic review. (Link)
- Working on predicting social indexes from twitter.

Tehran, Iran

2021 - present

Teaching Experience

Mentor

UNIVERSITY OF TEHRAN, TEHRAN, IRAN

- Data Analytics and Machine Learning
- Group collaboration with 7 other mentors for educating 80 students during 14 workshops on Data Analytics and Machine Learning.

HooshBuz Summer School

2022

Statistical Inference Teaching Assistant

SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING, COLLEGE OF ENGINEERING, UNIVERSITY OF TEHRAN, TEHRAN, IRAN

- Defining an advanced project for more than 70 students.

Dr. Behnam Bahrak

2022

Machine Learning Teaching Assistant

SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING, COLLEGE OF ENGINEERING, UNIVERSITY OF TEHRAN, TEHRAN, IRAN

- Defining an advanced project for more than 100 students.

Dr. Mohammad Reza Abolghasemi

2022

Data Analysis Teaching Assistant

SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING, COLLEGE OF ENGINEERING, UNIVERSITY OF TEHRAN, TEHRAN, IRAN

- Defining 3 advanced projects and 3 quizzes for more than 70 students.

Dr. Mohammad Amin Sadeghi

2021-2022

Projects

Big Data and Data Analytics Projects

- Launching a real time Big Data system for analysis of online Persian Twitter data
- Using Apache Spark for NLP, Log mining, Graph mining and Stock Market tasks
- Analyzing a real dataset with R programming language
- Investigating the main reason for sales decline in a wood industry factory

2020-2021

Social Networks Projects

2021-2022

- Examining the effect of the combination of economic and social analysis on the prediction of stock price fluctuations
- An analysis of Telegram channels related to the dollar and its price

Deep Learning & Machine Learning Projects

2020-2022

- Deep Reinforcement Learning for Cartpole Environment
- Generating music using LSTMs
- Classifying images using Convolutional Neural Networks
- Detecting Parkinson disease using signals of speech data with ensemble learning

Bio Inspired Computing Projects

2022

- Developing L-System Grammar
- Implementing Bio-Inspired Optimization methods

Skills

Theoretical Experience

Machine learning, Data Analytics, Deep learning, Design of Algorithms, Big Data, Data structures and Databases

Programming Languages

Python, R, HTML, CSS, JavaScript and C++

Libraries and Frameworks

PyTorch, Tensorflow, Keras, Numpy, Scipy, Scikit-learn, Pandas, BeautifulSoup and NetworkX

Databases, Datastores, and Tools

MongoDB, Apache Cassandra, Elasticsearch, ClickHouse, Neo4j, SERVERSQL

Big Data Platforms and Tools

Apache Spark, Apache Superset, Apache Hadoop, Apache Kafka, Apache hive, Kibana, DBeaver

Visualization Tools

Matplotlib, Seaborn, Plotly, Gephi, Geoplotlib and Houdini

CI/CD Tools

Git

Container Platforms

Docker

Other Tools and Skills

LATEX, MS Office and Adobe Photoshop

Languages

English (December 2022 will be the date of the TOEFL test)

Fluent

Persian

Native

Academic Courses

Bio Inspired Computing, 19.4/20

2022

Advanced Robotics, 18.77/20

2022

Social Networks, 18/20

2021

Neural Networks and Deep Learning, 18.06/20

2021

Massive Data Analysis and Systems (Big Data), 19.5/20

2021

Statistical Inference, 17.8/20

2021

Machine Learning, 19.3/20

2020

Data Analysis, 17.75/20

2020