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 — *Tehran, Iran*
M.Sc. in Artificial Intelligence and Robotics — *2020 - present*
- Overall GPA: 18.64/20 (4/4)

University of Mazandaran — *Babolsar, Iran*
B.S. in Computer Engineering — *2012 - 2016*
- 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

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 — *Tehran, Iran*
Social Networks Lab, University of Tehran — *2021 - present*
- Compared different methods of Influence Maximization Problem in Social Networks in a systematic review. (Link)
- Working on predicting social indexes from twitter.

Teaching Experience

Mentor — *HooshBuz Summer School*
University of Tehran, Tehran, Iran — *2022*
- Data Analytics and Machine Learning
- Group collaboration with 7 other mentors for educating 80 students during 14 workshops on Data Analytics and Machine Learning.

Statistical Inference Teaching Assistant — *Dr. Behnam Bahrak*
School of Electrical and Computer Engineering, Collage of Engineering, University of Tehran, Tehran, Iran — *2022*
- Defining an advanced project for more than 70 students.

Machine Learning Teaching Assistant — *Dr. Mohammad Reza Abolghasemi*
School of Electrical and Computer Engineering, Collage of Engineering, University of Tehran, Tehran, Iran — *2022*
- Defining an advanced project for more than 100 students.

Data Analysis Teaching Assistant — *Dr. Mohammad Amin Sadeghi*
School of Electrical and Computer Engineering, Collage of Engineering, University of Tehran, Tehran, Iran — *2021-2022*
- Defining 3 advanced projects and 3 quizzes for more than 70 students.

Projects

Big Data and Data Analytics Projects — *2020-2021*
- 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

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	*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*