

Mohammadali Sefidi Esfahani

Master of Artificial Intelligence from AmirKabir University of Technology

✉ mohammadali.esfahani@aut.ac.ir | 📄 github.com/mojtabaSefidi | 🔗 linkedin.com/in/mohammadali-esfahani | 📍 Mohammadali Sefidi Esfahani

Education

Master of Science in Computer Science

Amirkabir University of Technology (AUT)

Sep 2021 - Sep 2023

Tehran, Iran

- **Cumulative GPA:** 19.62 out of 20
- **Master's Thesis:** Identification of Unspecified Events from Twitter
- **Supervisor:** Dr. Mohammad Akbari
- *Research Assistant at Data Science Innovation Center*

Bachelor of Science in Computer Science

Kharazmi University (KHU)

Sep 2017 - Jul 2021

Tehran, Iran

- **Cumulative GPA:** 18.26 out of 20
- **Bachelor's Thesis:** Comparative study on performance of ML models for fall detection in older people
- **Supervisor:** Dr. Mohammad Soltanian
- *Member of ACM Association*

Research Interest

- Computational Social Science
- Conversational AI
- Explainable AI
- Representation Learning
- Trajectory Data Mining
- ML for Software Engineering

Publications

Feature Learning for Identification of Persian Events from Twitter ([Civilica](#))([PDF](#))

Published in CSICC 2023

A component from my master's thesis

- **My Contribution:** coding and preparation of the whole paper
- **Language:** Persian

EnrichEvent: Enriching Social Data with Contextual Information for Emerging Event Extraction ([Arxiv](#))([PDF](#))

Submitted to IEEE Transactions on Computational Social Systems

Based on my master's thesis

- **My Contribution:** coding and preparation of the whole paper

Comparative Study on Performance of ML Models for Fall Detection in Older People ([Preprints](#))([PDF](#))

Available on Preprints.org

Based on my bachelor's thesis

- **My Contribution:** coding and preparation of the whole paper

Applications of Large Language Models in Healthcare: Challenges and Opportunities

In preparation: Expected to be finished by 29 Feb

A paper prepared in Data Science Innovation Center

- **My Contribution:** Writing of Clinical Documentation & Medical Research sections and preparation of tables

Experience

Graduate Research Assistant in Data Science Innovation Center

Nov 2021 - present

Supervisor: Dr. Mohammad Akbari

- **Duties:** Research, Management of Data Science Innovation Center weekly meetings, Mentoring undergraduate members

Teaching Assistant (Machine Learning)

Sep 2023 - Feb 2024

Lecturer: Dr. Ali Mohades

- **Duties:** Programming assignments, Grades of programming assignments, Troubleshooting sessions

Lead Teaching Assistant (Machine Learning)

Sep 2022 - Feb 2023

Lecturer: Dr. Mohammad Akbari

- **Duties:** Assignments, Grades of assignments and final project, Troubleshooting sessions

Graduate Research Assistant in NLPIC

Nov 2021 - Aug 2022

Supervisors: Dr. Ali Mohades/ Dr. Mohammad Akbari/ Dr. Mohammad Ebrahim Shiri

- **Duties:** Research

Member of ACM association

March 2021 - Aug 2021

Supervisor: Dr. Bardia Panahbehagh

- **Duties:** Event planing

Projects

EnrichEvent (GitHub)

Nov 2021 - Oct 2023

My Master Thesis

- An end-to-end framework for identifying unknown events from Twitter in an unsupervised setting.

Comparative Study on Performance of ML Models for Fall Detection in Older People (GitHub)

Feb 2021 - Dec 2023

My Bachelor Thesis

- This project aimed to implement and evaluate the efficiency of ML models for fall detection mechanisms in older people.

No-Show Appointments Prediction

Sep 2022 - Feb 2023

Real-World Project (Private-Access)

- This project aimed to implement an end-to-end framework for no-show appointment prediction based on patient history.

Data Generator for Comparative Opinion Summarization using Chat-GPT (GitHub)

May 2023 - Dec 2023

Data Science Innovation Center Project

- The implemented tool scrapes users' reviews for hotels from Eghamat24.com and builds a synthetic dataset for comparative opinion summarization.

Small Projects in AI (GitHub) / Small GNN-based Projects (GitHub)

May 2020 - present

Self-Study

- Collection of small projects in various fields like ML, Data Mining, DeepLearning, NLP, and GNNs

Honors and Awards

- Ranked 1st among the MSc. computer science students (2021 entrance, Department of Mathematics and Computer Science, AUT)
- Ranked 1st among the BSc. computer science students (2017 entrance, Department of Mathematics and Computer Science, KHU)

Certificates

Deep Learning Specialization (Credential link)

Nov 2023

Issued by Coursera: DeepLearning.AI

- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models

Natural Language Processing Specialization (Credential link)

Nov 2023

Issued by Coursera: DeepLearning.AI

- Natural Language Processing with Classification and Vector Spaces
- Natural Language Processing with Probabilistic Models
- Natural Language Processing with Sequence Models
- Natural Language Processing with Attention Models

Machine Learning Specialization (Credential link)

Oct 2023

Issued by Coursera: DeepLearning.AI and Stanford

- Supervised Machine Learning: Regression and Classification
- Advanced Learning Algorithms
- Unsupervised Learning, Recommenders, Reinforcement Learning

Task-oriented course in artificial intelligence and machine learning (Credential link)

Nov 2021

Issued by Quera

Skills

Programming Languages Python, Java
Libraries and Frameworks TensorFlow, Pytorch, Pytorch-Geometric, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn
Tools Git, Latex, Adobe Photoshop, Search Engine Optimization (SEO)

Languages

English TOEFL iBT (Overall: 98/ Reading : 24/ Listening : 26/ Speaking : 22/ Writing : 26/ Test Date: 18 Nov 2023)

Persian Native

Hobbies

- Futsal
- Volleyball
- Photography
- Mountain Climbing
- Ping-Pong
- Swimming
- Video Games
- Camping