Mohammadali Sefidi Esfahani

Master of Artificial Intelligence from AmirKabir University of Technology

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Education

Master of Science in Computer Science   *Sep. 2021 - Sep. 2023*

Amirkabir University of Technology (AUT)   *Tehran, Iran*

- **Cumulative GPA:** 19.62 out of 20
- **Master's Thesis:** Identification of Unspecified Events from Twitter
- **Supervisor:** Dr. Mohammad Akbari
- *Graduated as a 1st-ranked student*

Bachelor of Science in Computer Science   *Sep. 2017 - Jul. 2021*

Kharazmi University (KHU)   *Tehran, Iran*

- **Cumulative GPA:** 18.26 out of 20
- **Bachelor's Thesis:** Comparative study on the performance of ML models for fall detection in older people
- **Supervisor:** Dr. Mohammad Soltanian
- *Graduated as a 1st-ranked student*

Research Interest

- Code Reviewer Recommendation
- AI/ML/LLMs for Software Engineering
- Explainable AI
- Computational Social Science
- Representation Learning
- Conversational AI

Publications

The Cost vs the Benefit of Adding an Extra Code Reviewer to Mitigate Developer Turnover through Reviewer Recommenders

Mohammadali Sefidi Esfahani & Fahimeh Hajari & Peter C. Rigby, Accepted in ICSE'26, 2025

- **My Contribution:** Coding, simulation and writing of the paper

Mitigating the Risk of Defects and Improving Knowledge Distribution with Code Reviewer Recommenders

Mohammadali Sefidi Esfahani & Peter C. Rigby, Submitted to FSE'26, 2025

- **My Contribution:** Coding, simulation and writing of the paper

EnrichEvent: Enriching Social Data with Contextual Information for Emerging Event Extraction   Link: *Springer* & *Arxiv*

Mohammadali Sefidi Esfahani & Mohammad Akbari, Iran Journal of Computer Science, 2025

- **My Contribution:** Coding and writing of the whole paper

Comparative Study on Performance of ML Models for Fall Detection in Older People   Link: *Preprints.org*

Mohammadali Sefidi Esfahani & Mohammad Fattahian, Preprints.org, 2025

- **My Contribution:** Coding and writing of the whole paper

Feature Learning for Identification of Persian Events from Twitter   Link: *Civilica* & *PDF*

Mohammadali Sefidi Esfahani & Mohammad Akbari, CSICC'23, 2023

- **My Contribution:** Coding and writing of the whole paper
- Note: This paper is written in Persian Language

Experience

Graduate Research Assistant in Data Science Innovation Center   *Nov. 2021 - Sep. 2024*

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)

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

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 Standford

- 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

Hobbies

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