

# 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
- *Research Assistant at Data Science Innovation Center*

### 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
- *Member of ACM Association*

## Research Interest

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

## 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](#))

Available on Arxiv

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 31 Dec.

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 - 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

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### 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

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- 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

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### 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

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

## Languages

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

## Hobbies

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