

Mahsa Amani

COMPUTER SCIENCE

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Education

Sharif University of Technology (SUT)

Tehran, Iran

B.Sc. IN COMPUTER ENGINEERING

Sep. 2018 - Feb. 2023

- GPA: 18.03/20

Farzanegan High School (National Organization for Development of Exceptional Talents (NODET))

Tabriz, Iran

DIPLOMA IN MATHEMATICS AND PHYSICS

Sep. 2011 - Jun. 2018

- GPA: 19.97/20

Academic Honors

- 2022 **Gifted Student Award** Entrance exam waiver for graduate program, Sharif University of Technology
- 2018-2023 **Membership** In Iran's National Elites Foundation
- 2018 **Rank 51st** In Mathematics and Physics B.Sc. entrance exam among more than 144,000 participants
- 2017 **Accepted** In the First Exam of Mathematics Olympiad

Iran

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Research Interests

- 📖 Large Language Models
- 📖 Multi-Modal Models
- 📖 Machine Translation
- 📖 Natural Language Processing
- 📖 Deep Learning
- 📖 Machine Learning

Relevant Courses

- Natural Language Processing 20/20
- Artificial Intelligence 20/20
- Advanced Information Retrieval 19.3/20
- Signals and Systems 20/20
- Probability and Statistics 20/20
- Data Structure and Algorithm 18.4/20

Languages

- English** IELTS Overall Bandscore: 7.5 (🔊 Listening: 9, 📖 Reading: 7, 🗣 Speaking: 6.5, ✍ Writing: 6.5)
- Persian** Native Language
- Azerbaijani** Mother Tongue

Certificates

- 📄 2023 **Generative AI with Large Language Models**, Andrew NG. DeepLearning.AI
- 📄 2022 **Deep Learning Specialization**, Andrew NG. DeepLearning.AI
- 📄 2021 **Introduction to Computer Vision and Image Processing**, IBM IBM
- 📄 2021 **Machine Learning**, Andrew NG. Stanford University
- 📄 2021 **Introduction to Git and GitHub**, Google Google
- 📄 2021 **Natural Language Processing in TensorFlow**, Laurence Moroney DeepLearning.AI
- 📄 2021 **Web Application Technologies and Django**, Charles Severance University of Michigan
- 📄 2020 **Advanced Python Programming and Object-Oriented Thinking**, Quera Quera

Publications

The Language Model, Resources, and Computational Pipelines for the Under-Resourced Iranian Azerbaijani

Iran

M. AMANI, M. NOURI, R. ZOHRABI, E. ASGARI

Sep. 2023

- In Proceedings of ACL 2023 (Asia-Pacific ACL), Published

Skills

Programming

Python, R, C/C++, JAVA, SQL, \LaTeX

ML tools

Pytorch, Tensorflow, Keras, Scikit-learn, Numpy, Pandas

Research Experience

Multigenerator, Multidomain, and Multilingual Black-Box Machine-Generated Text Detection

SEMEVAL2024

Development of automatic systems to identify machine-generated text with the goal of mitigating its potential misuse

Iran

Dec. 2023 - Jan. 2024

Pipelines for low-resource Iranian Languages

RESEARCH ASSISTANT

Developing pipelines for low-resource languages such as Azerbaijani, Luri, Yazdi, and Kurdi

Iran

Sep. 2022 - Now

A Large Language Model for Persian

RESEARCH ASSISTANT

Development of a multilingual large language model fine-tuned for Persian

Iran

Oct. 2023

Explainable Detection of Online Sexism

SEMEVAL2023

Development of English-language models for sexism detection with fine-grained classifications for sexist content from Gab and Reddit

Iran

Feb. 2023

Work Experience

Junior Data Scientist

ZAREBIN

Developing a Shopping Information Retrieval System using Deep Learning Methods

Tehran, Iran

Oct. 2022 - Apr. 2023

Teaching Assistant

SHARIF UNIVERSITY OF TECHNOLOGY (SUT)

Natural Language Processing, Dr. Ehsaneddin Asgari

Probability and Statistics, Dr. Ali Sharifi

Database Design, Dr. Abbas Heydarnoori

Operating Systems, Dr. Hossein Asadi

Python Programming, Dr. Issa Moradnejad

Digital System Design, Dr. Farshad Baharvand

Digital Design, Dr. Laleh Arshadi

Tehran, Iran

Sep. 2020 - Jul. 2023

Junior Data Analyst

VIVETENNIS

Developing and Analysing Robot Monitoring System

Tehran, Iran

Jun. 2022 - Aug. 2022

Undergraduate Student Internship

AIMEDIC

Eye Disease Diagnosis using Artificial Intelligence

Tehran, Iran

Jul. 2021 - Sep. 2021

Projects

Iranian Azerbaijani NLP Pipeline

THE LANGUAGE MODEL, RESOURCES, AND COMPUTATIONAL PIPELINES FOR THE UNDER-RESOURCED IRANIAN AZERBAIJANI

Iran

Jan. 2023 - May. 2023

3D Vision Transformers and Convolutional Models for Segmentation Tasks

BACHELOR'S THESIS ON 3D MRI BRAIN TUMOR SEGMENTATION

Iran

Jan. 2022 - Jan. 2023

Azerbaijani to Farsi Translation

DEVELOPING JOEYNMT FRAMEWORK FOR TRANSLATING AZERBAIJANI TO FARSI USING TRANSFORMERS AND SEQ2SEQ MODELS

Iran

Jun. 2022

Persian NER and Spell Corrector

FINE TUNING BERT MODEL FOR NAME ENTITY RECOGNITION AND LANGUAGE SPELL CORRECTION

Iran

May. 2022 - Jun. 2022

Persian QA Extractor

EXTRACTING QUESTIONS AND RESPECTIVE ANSWERS FROM A TEXT USING REGULAR EXPRESSIONS

Iran

April 2022

Turkish Preprocessing Pipeline

DEVELOPING A PREPROCESSING PIPELINE FOR TURKISH LANGUAGE

Iran

April 2022

Modern Information Retrieval

A PROJECT INCLUDING INDEXING, COMPRESSING, QUERY CORRECTION, LANGUAGE MODELS, CLASSIFIERS, AND CLUSTERING

Iran

Feb. 2021

TeleNurse

A LOGISTIC PROJECT FOR PROVIDING HEALTHCARE AND NURSING IMPLEMENTED USING PYTHON DJANGO, POSTGRESQL, AND DOCKER

Iran

Nov. 2022

Eye Disease Recognition

RECOGNITION OF 7 EYE DISEASES USING TRANSFER LEARNING IMPLEMENTED AS MY INTERNSHIP PROJECT

Iran

Sep. 2021