

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

2018 **Membership** In Iran's National Elites Foundation

Iran

2018 **Rank 51st** Mathematics and Physics B.Sc. entrance exam among more than 144,000 participants

Iran

Research Interests

🗉 **Natural Language Processing (NLP)**

🧠 **Machine Learning**

🖼️ **Computer Vision**

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 AACL 2023 (Asia-Pacific ACL), Accepted

Linguistic Resources and Transformer-based Models for the Machine Translations between Luri and Yazdi Dialects versus Standard Persian

Iran

M. AMANI, M. NOURI, Z. BAHMANI, M. MIRBEYGI, N. HASHEMI, E. ASGARI, M. SOLEYMANI BAGHSHAH, H. BEIGY, A. MOVAGHAR

Oct. 2022

- Journal of the Linguistics Society of Iran, Under Revision

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

SEM EVAL2024

Iran

Ongoing

Development of automatic systems to identify machine-generated text with the goal of mitigating its potential misuse
- Pipelines for low-resource Iranian Languages

RESEARCH ASSISTANT

Iran

Ongoing

Developing pipelines for low-resource languages such as Azerbaijani, Luri, Yazdi, and Kurdi
- A Large Language Model for Persian

RESEARCH ASSISTANT

Iran

Oct. 2023

Development of a multilingual large language model fine-tuned for Persian
- Explainable Detection of Online Sexism

SEM EVAL2023

Iran

Feb. 2023

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

Work Experience

- Junior Data Scientist

ZAREBIN

Tehran, Iran

Oct. 2022 - Apr. 2023

Developing a Shopping Information Retrieval System using Deep Learning Methods
- Teaching Assistant

SHARIF UNIVERSITY OF TECHNOLOGY (SUT)

Tehran, Iran

Sep. 2020 - Jul. 2023

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
- Junior Data Analyst

VIVETENNIS

Tehran, Iran

Jun. 2022 - Aug. 2022

Developing and Analysing Robot Monitoring System
- Undergraduate Student Internship

AIMEDIC

Tehran, Iran

Jul. 2021 - Sep. 2021

Eye Disease Diagnosis using Artificial Intelligence

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