

COMPUTER ENGINEERING

Tehran, Iran

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Education **Sharif University of Technology (SUT)** B.Sc. IN COMPUTER ENGINEERING Sep. 2018 - Feb. 2023 • GPA: 18.03/20 Farzanegan High School (National Organization for Development of Exceptional Talents Tabriz, Iran (NODET)) DIPLOMA IN MATHEMATICS AND PHYSICS Sep. 2011 - Jun. 2018 GPA: 19.97/20 Academic Honors __ 2018 **Membership** In Iran's National Elites Foundation Rank 51st Mathematics and Physics B.Sc. entrance exam among more than 144,000 participants 2018 Research Interests Natural Language Processing (NLP) 4 **Machine Learning** 2 **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 2**023 **Generative AI with Large Language Models,** Andrew NG. DeepLearning.Al **2**2022 **Deep Learning Specialization,** Andrew NG. DeepLearning.Al **2**021 Introduction to Computer Vision and Image Processing, IBM **2**021 **Machine Learning,** Andrew NG. Stanford University **2**021 **Introduction to Git and GitHub,** Google **2**2021 **Natural Language Processing in TensorFlow,** Laurence Moroney DeepLearning.Al **2**2021 **Web Application Technologies and Django,** Charles Severance University of Michigan **2**020 Advanced Python Programming and Object-Oriented Thinking, Quera **Quera Publications** The Language Model, Resources, and Computational Pipelines for the Under-Resourced Iranian Azerbaijani M. Amani, M. Nouri, R. Zohrabi, E. Asgari Sep. 2023 • In Proceedings of AACL 2023 (Asia-Pacific ACL), Accepted

OCTOBER 7, 2023 MAHSA AMANI · RÉSUMÉ

Oct. 2022

Linguistic Resources and Transformer-based Models for the Machine Translations between

M. Amani, M. Nouri, Z. Bahmani, M. Mirbeygi, N. Hashemi, E. Asgari, M. Soleymani Baghshah, H. Beigy, A. Movaghar

Luri and Yazdi Dialects versus Standard Persian

· Journal of the Linguistics Society of Iran, Accepted



Programming </>
Python, R, C/C++, JAVA, SQL, ŁTFX

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

Research Experience _

A Large Language Model for Persian

RESEARCH ASSISTANT

Ongoing

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

Pipelines for low-resource Iranian Languages

RESEARCH ASSISTANT

Ongoing

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

Explainable Detection of Online Sexism

SEMEVAL2023

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

Tehran, Iran

ZAREBIN

Oct. 2022 - Apr. 2023

• Developing a Shopping Information Retrieval System using Deep Learning Methods

Teaching Assistant

SHARIF UNIVERSITY OF TECHNOLOGY (SUT)

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

Tehran, Iran

VIVETENNIS

Jun. 2022 - Aug. 2022

• Developing and Analysing Robot Monitoring System

Undergraduate Student Internship

Tehran, Iran

AIMEDIC

Jul. 2021 - Sep. 2021

• Eye Disease Diagnosis using Artificial Intelligence

Projects

3D Vision Transformers and Convolutional Models for Segmentation Tasks

Jan. 2022 - Jan. 2023

BACHELOR'S THESIS ON 3D MRI BRAIN TUMOR SEGMENTATION

Azerbaijani to Farsi Translation

Persian NER and Spell Corrector

Modern Information Retrieval

Persian QA Extractor

Iran

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

May. 2022 - Jun. 2022

EXTRACTING QUESTIONS AND RESPECTIVE ANSWERS FROM A TEXT USING REGULAR EXPRESSIONS

April 2022

Turkish Preprocessing Pipeline

April 2022

DEVELOPING A PREPROCESSING PIPELINE FOR TURKISH LANGUAGE

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

DEVELOPING JOEYNMT FRAMEWORK FOR TRANSLATING AZERBAIJANI TO FARSI USING TRANSFORMERS AND SEO2SEO MODELS

Feb. 2021

TeleNurse

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

Nov. 2022

Eye Disease Recognition

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

Sep. 2021

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