

DANIYAL FARHANGI

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📍 Tehran, Iran
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EDUCATION

Bachelor's Degree In Computer Engineering ([See Transcript](#))

📅 Sep. 2019 - Aug. 2023

[University of Tehran](#) (First University Among Universities in Iran and 329th in Global Universities)

📍 Iran

GPA: 3.88/4 (18.23/20)

GPA of last two years: 4/4

Supervisor : [Dr. Kazim Fouladi](#)

RESEARCH INTERESTS

- Artificial Intelligence
- Machine Learning
- Deep Learning
- Natural Language Processing
- Computer Networking
- Communications

AWARDS & ACHIEVEMENTS

- Acknowledged as an exceptionally talented student, placing in the **top 5%** among undergraduates.
- Awarded **Tuition-Waiver** at University of Tehran.
- Ranked **top 1%** in the national university entrance exam (among 150,000 students).

RESEARCH EXPERIENCES

Undergraduate research assistant at the University of Tehran

📅 Jan. 2022 - Jul. 2022

Under Supervision of Dr. Kazim Fouladi

University of Tehran

- Worked on sentiment analysis algorithms such as NB, SVM, LR, CNN, LSTM, CNN-LSTM, and BERT, and evaluating and comparing the performance of these algorithms with each other.

TEACHING EXPERIENCES

Signals and Systems

Dr. Hossein Aghababa

📅 Feb. 2023 - Jul. 2023

University of Tehran

- Responsibilities: Holding Review Sessions, Designing Course Materials and Exams, Grading Assignments

Computer-Aided Digital System Design

Dr. Hossein Aghababa

📅 Feb. 2023 - Jul. 2023

University of Tehran

- Language: Verilog
- Responsibilities: Holding Review Sessions, Helping Students with Coding, Designing Course Materials and Exams, Grading Assignments

Advanced Programming

Dr. Zahra Movahedi

📅 Feb. 2022 - Jul. 2022

University of Tehran

- Language: Java
- Responsibilities: Helping Students with Coding, Grading Projects and Assignments

WORK EXPERIENCES

Research Assistant at the Deep Learning Laboratory of the University of Tehran

Deep Learning Lab

📅 Mar. 2023 - Present

📍 Tehran, Iran

- Working on sentiment analysis on social networks' comments and posts. The project involves scraping social networks' comments related to the "University of Tehran" and building a sentiment analysis system.

Machine Learning Intern

Buyroad - Internship

📅 May. 2022 - Aug. 2022

📍 Tehran, Iran

- Worked on search engines using Elasticsearch and BERT. This research project involves scraping product information, building a search engine with Elasticsearch, building a search engine with BERT algorithm, and evaluating and comparing these two search engines' results. ([Source Code](#))

ACADEMIC PROJECTS

Text Summarization

University of Tehran

📅 Jun. 2023

- An abstractive Text Summarization fine-tuning on the T5 transformer model on the xsum dataset. ([Project link](#))

Chatbot

University of Tehran

📅 Feb. 2023

- An open-domain generation-based chatbot using large language models such as T5, Falcon7B, and Llama7B on the Reddit dataset. ([Project link](#))

Sentiment Analysis

University of Tehran

📅 Jul. 2022

- A sentiment analysis system that can classify the sentiment of customer comments as positive, negative, or neutral. The project involves scraping Amazon product reviews, building sentiment analysis systems with lots of algorithms, and computing their accuracy. ([Project link](#))

Machine Translation

University of Tehran

📅 May. 2022

- A machine translation system that can translate text from Persian to English and English to Persian using attention mechanism and transformers algorithm. ([Project link](#))

News Text Classification

University of Tehran

📅 Feb. 2022

- A Persian news text classification using BiLSTM algorithm on Hamshahri-News dataset. ([Project link](#))

SELECTED COURSE PROJECTS

Finding Lane Lines on the Road

Foundations of Computer Vision

📅 Jul. 2023

University of Tehran

- A Python implementation for lane detection using the OpenCV library. It uses the Hough Transform algorithm to detect lines in video frames and draw the final lane lines on the original frames. ([Project link](#))

Cars Parking AI

Artificial Intelligence and Expert Systems

📅 Jun. 2022

University of Tehran

- Used a* algorithm to automatically find path to control parked cars with AI. ([Project link](#))

OS Scheduling Simulation

Operating Systems

📅 Dec. 2021

University of Tehran

- Simulated CPU scheduling with FCFS, RR and Preemptive/Non-Preemptive Priority/SFJ algorithms.
- Used a graphical interface to work with the program and plotted metrics such as waiting, turnaround and response time of CPU simulation ([Project link](#))

Bank System

Advanced Programming

📅 Jun. 2020

University of Tehran

- This is a Java-based banking system with a GUI developed using JavaFX. It allows users to create accounts, deposit/withdraw money, and view their account information. ([Project link](#))

SKILLS

AI Professional Skills

- Python (TensorFlow, PyTorch, Keras, Scikit-Learn, NumPy, Pandas, Matplotlib)
- Machine Learning
- Deep Learning (ANN, CNN, RNN, LSTM, GAN)
- Natural Language Processing (Transformers, LLMs)

Programming Skills

- C++, Java, JavaScript, TypeScript
- Django, Django Rest Framework
- SQL, MongoDB, Redis, Elasticsearch, Kafka

- Web Scraping (Scrapy, BeautifulSoup)

- Docker, Git, Linux (Ubuntu)

Language Skills:

- Persian (Native)
- English (Fluent)
- Duolingo English Test score (120)

Other Skills:

- Methodologies (Agile, Scrum, Waterfall)
- Product Management Tools (Jira, Trello)
- LaTeX, Word, PowerPoint, Excel

TRAINED COURSES

Deep Learning

- University of Tehran

📅 Jun. 2023

Natural Language Processing with Deep Learning

- Youtube Stanford CS224N

📅 May. 2022

Convolutional Neural Networks

- Coursera

📅 Nov. 2021

Machine Learning, Andrew Ng

- Coursera

📅 Sep. 2021

VOLUNTEER WORKS

IPRIA 2023 Conference Executive Team

📅 Jan. 2023 - Feb. 2023

- The 6th International Conference on Pattern Recognition and Image Analysis (IPRIA 2023) which was Held in the Department of Computer Engineering, University of Tehran ([Certification](#))

REFERENCES

- Dr. Kazim fouladi : kfouladi@ut.ac.ir
- Dr. Hossein Aghababa : aghababa@ut.ac.ir
- Dr. Zahra Movahedi : zmovahedi@ut.ac.ir