DANIYAL FARHANGI

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🌐 danfarh.github.io   ⬡ danfarh   in DaniyalFarhangi

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
- Smart Communication

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 open-domain generation-based dialogue systems.

· 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 against each other.

TEACHING EXPERIENCES

Signals and Systems   📅 Feb. 2023 - Jul. 2023

Dr. Hossein Aghababa   *University of Tehran*

· Responsibilities: Holding Practice Solving Classes, Designing Course Materials and Exams, Grading Assignments

Computer-Aided Digital System Design   📅 Feb. 2023 - Jul. 2023

Dr. Hossein Aghababa   *University of Tehran*

· Language: Verilog

· Responsibilities: Holding Practice Solving Classes, Designing Course Materials and Exams, Grading Assignments

Advanced Programming   📅 Feb. 2022 - Jul. 2022

Dr. Zahra Movahedi   *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 text analysis in social networks by collecting posts and comments by crawling in nets, then analyzing their sentiments.

Machine Learning Intern
Buyroad - Internship

📅 May. 2022 - Aug. 2022
📍 *Tehran, Iran*

- Worked on a retrieval-based chatbot using BiLSTM and BERT algorithms. (Source Code)
- Worked on a search engine using Elasticsearch and BERT algorithm. (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

- Open-domain generation-based chatbot using large language models such as T5, Falcon7B, and Llama7B with 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 translates text from Persian to English and English to Persian using attention and transformers. (Project link)

News Text Classification
University of Tehran

📅 Feb. 2022

- Persian news text classification from Hamshahri corpus based on Bidirectional LSTM. (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
📅 Dec. 2021

Operating Systems · *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
📅 Jun. 2020

Advanced Programming · *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, 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