

# DANIYAL FARHANGI

✉ [dan.farhangi@gmail.com](mailto:dan.farhangi@gmail.com)  
🌐 [danfarh.github.io](https://danfarh.github.io)

📞 +98 (937) 353-8508  
🔗 [danfarh](#)

📍 Tehran, Iran  
🌐 [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 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**

📅 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, Helping Students with Coding, 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 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)

### 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](mailto:kfouladi@ut.ac.ir)
- Dr. Hossein Aghababa : [aghababa@ut.ac.ir](mailto:aghababa@ut.ac.ir)
- Dr. Zahra Movahedi : [zmovahedi@ut.ac.ir](mailto:zmovahedi@ut.ac.ir)