

MOHAMMAD ERFAN NAYEB AGHAEI

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ErfanNayeb
Tehran, Iran

EDUCATION

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

[University of Tehran](#) (1st University Among Universities in Iran and 329th in Global Universities)

📅 Sep 2019 - Aug 2023

📍 Iran

GPA: 3.54/4

GPA of last 60 units: 3.85/4

Supervisor: [Dr. Kazim Fouladi](#)

RESEARCH INTERESTS

- Computer Vision
 - Natural Language Processing
 - Machine Learning
 - Data Science
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PUBLICATIONS

Nayeb Aghaei, M.E., Alipour, A. (2023) Design and Implementation of a Content Recognition System for National ID Cards Using Machine Vision.

[See Article](#)

📅 Under Preparation

Nayeb Aghaei, M.E., Alipour, A. (2023) Data Analysis in Banks and Investment Institutions for Credit Allocation.

[See Article](#)

📅 Under Preparation

Verdegem, P. (2021) AI for Everyone?. Translated by M.E. Nayeb Aghaei. London: University of Westminster.

[See Translate](#)

AWARDS & ACHIEVEMENTS

- Awarded **Tuition-Waiver** at Tehran University
 - Ranked within the **top 10%** of the class
 - Ranked within the **top 1%** of the Iran's universities entrance exam
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TEACHING EXPERIENCES

Fundamentals of Computer and Programming

Dr. Kazim Fouladi

Sep 2021 - Feb 2022

- **Language:** C++
- **Responsibility:** Grading Projects and Assignments, Solving Students Problems, Mentoring.

Physics

Dr. Fatemeh Eshaghi

Sep 2020 - Feb 2021

- **Responsibility:** Grading Assignments, Solving Students Problems.

INDUSTRY EXPERIENCES

Frontend Developer

Lavan Oil Refining Company . Internship

📅 Jul 2022 - Sep 2022 📍 Iran

- Worked on their website to improve the performance & User interface by enhancing the Front-End codes.
- Learned React.js, TypeScript & Tailwind.
- Developed my teamwork abilities, punctuality & interpersonal skills.

ACADEMIC PROJECTS

National ID Cards information Extractor Application

University of Tehran

📅 Aug 2023

- Can Extract the Iranian national ID cards information
- Developed with YOLOv5, Tesseract OCR (custom font), Django for the Application, & SQLite for the Database

[Project link](#)

Lane Lines Detector

University of Tehran

📅 Jul 2023

- Can Detect lanes in test images and video using OpenCV library.

[Project link](#)

MNIST

University of Tehran

📅 May 2023

- Handwritten digit classification based on CNNs

[Project link](#)

News Text Classification

University of Tehran

📅 Jun 2022

- Persian news text classification from Hamshahri corpus based on Bidirectional LSTM.

[Project link](#)

Memory Allocation

University of Tehran

📅 May 2022

- Learned to use memory management techniques such as Paging & Segmentation.
- Developed with Python & used a graphical interface with PyQt.

[Project link](#)

Recommender System

University of Tehran

📅 Apr 2022

- Can offer new products to customers based on their previous purchases.
- Developed with Python & Two-Tower Recommendation Model for recommending new products.

[Project link](#)

OS Scheduling System

University of Tehran

📅 Dec 2021

- Simulated CPU scheduling with FCFS, RR and SFJ scheduling algorithms.
- Developed with Python & used a graphical interface with Tkinter.

[Project link](#)

SELECTED COURSE PROJECTS

Road Signs Object Detection

📅 Jun 2023

- Implemented YOLOv5 to detect four critical road signs: traffic lights, stop signs, speed limit signs, and crosswalks.

[Project link](#)

Chatbot

📅 Dec 2022

- Developed a retrieval based chat-bot with Python based on ANN.

[Project link](#)

Sentiment Analysis

📅 Nov 2022

- Comparison and evaluation of sentiment analysis algorithms such as NB, SVM, LR, CNN, LSTM, CNN-LSTM on Amazon reviews.

[Project link](#)

Digikala

📅 Oct 2022

- A shopping site based on a famous Iranian online shop developed with Python & Django.

[Project link](#)

Rasad

📅 Jul 2022

- A self-startup project that is about managing visitors, The boss can monitor the visitors with this app.
- Developed Back-end with Django & Learned to use Docker.

[Project link](#)

Car Contorller

📅 May 2022

- using a* algorithm to automatically find path to control parking car with AI

[Project link](#)

COMPUTER SKILLS

AI Professional Skills. 1 yrs:

- Python(TensorFlow,PyTorch,Keras,Pandas, NumPy, Matplotlib, Scikit-Learn)
- Deep Learning (ANN,CNN,RNN,GAN,LSTM)

Front-end Professional Skills. 2 yrs:

- JavaScript, TypeScript, React.js
- Tailwind, Bootstrap, Sass

Language Skills:

- Persian: Native
- **IELTS Overall: 7**

Other Skills:

- Django, Docker, Git, Linux(Ubuntu)
 - C++, Java
 - Methodologies (Agile, Scrum)
 - LaTeX, Word, PowerPoint, Excel
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TRAINED COURSES

Deep Learning, Andrew Ng

Coursera

📅 March 2023

Machine Learning, Andrew Ng

Coursera

📅 April 2023

Machine Learning

YouTube Stanford CS229

📅 Mar 2022

Artificial Intelligence

YouTube Standford CS221

📅 Feb 2022

Python

Utech academy (Tehran University)

📅 Jan 2022

Mastering React

Mosh

📅 Dec 2021

The Modern Javascript

Udemy

📅 Sep 2021

VOLUNTEER WORKS

IPRIA 2023 Conference Executive Team

📅 Feb 2023 - Mar 2023

- The 6th International conference on Pattern Recognition and Image Analysis Held at the Department of Computer Engineering, University of Tehran.

MVIP 2020 Conference Executive Team

📅 Feb 2020 - Mar 2020

- The 11th Iranian and The First International Conference on Machine Vision and Image Processing Held at the Department of Computer Engineering, University of Tehran.

HOBBIES & INTERESTS

- Professional Basketball player,7 yrs
 - Crypto Currency, Blockchain and Financial markets
 - Internet Of Things and Robotic
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REFERENCES

- **Dr. Kazim Fouladi:** kfouladi@ut.ac.ir
- **Dr. Mahdi Seyfipoor:** mahdiseyfipoor@ut.ac.ir
- **Dr. Alireza Maleki:** maleki@lorc.ir