

# MOHAMMAD ERFAN NAYEB AGHAEI

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ErfanNayeb  
Tehran, Iran

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## EDUCATION

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

University of Tehran (1<sup>st</sup> University Among Universities in Iran and 329<sup>th</sup> in Global Universities)

📅 Sep 2019 - Aug 2023

📍 Iran

GPA: 3.54/4

GPA of last 60 units: 3.85/4

Supervisor: Dr. Kazim Fouladi

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## 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.

📅 Under Preparation

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

📅 Under Preparation

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

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## 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.

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## 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](#)

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### Lane Lines Detector

*University of Tehran*

📅 Jul 2023

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

[Project link](#)

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### MNIST

*University of Tehran*

📅 May 2023

- Handwritten digit classification based on CNNs

[Project link](#)

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### News Text Classification

*University of Tehran*

📅 Jun 2022

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

[Project link](#)

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### 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](#)

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## 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](#)

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## 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](#)

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## 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](#)

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### Chatbot

📅 Dec 2022

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

[Project link](#)

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### 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](#)

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### Digikala

📅 Oct 2022

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

[Project link](#)

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### 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](#)

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## Car Contorller

📅 May 2022

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

[Project link](#)

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## 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

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## VOLUNTEER WORKS

### IPRIA 2023 Conference Executive Team

📅 Feb 2023 - Mar 2023

- The 6<sup>th</sup> 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 11<sup>th</sup> 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](mailto:kfouladi@ut.ac.ir)
- **Dr. Mahdi Seyfipoor:** [mahdiseyfipoor@ut.ac.ir](mailto:mahdiseyfipoor@ut.ac.ir)
- **Dr. Alireza Maleki:** [maleki@lorc.ir](mailto:maleki@lorc.ir)