

# Nima Ebrahimi

UNDERGRADUATE STUDENT

School of Math and Computer Science, Amirkabir University of Technology, Tehran, Iran

☎ (+98) 913-458-7287 | ✉ nimaebrahimi8282@gmail.com | 🏠 PlutoDvs.github.io | 📺 PlutoDvs | 🌐 nima-ebrahimi

## Education

### Amirkabir University of Technology

Tehran, Iran

B.S. IN COMPUTER SCIENCE

Sep. 2021 - Jun. 2025 (Expected)

- Last two years GPA: 3.96/4 (18.6/20) · CGPA: 3.84/4
- Data structures and Algorithms · Artificial Intelligence · Neural Networks · Cryptography · Numeric Linear Algebra

### Shahid Soltani 1 High School

Karaj, Iran

DIPLOMA OF MATHEMATICS AND PHYSICS

September. 2018 - June 2021

- GPA: 4/4 (19.11/20)

## Research Interest

- Natural Language Processing
- Large Language Models
- Computer Vision
- Natural Language Generation
- Dialogue Systems
- Image Processing

## Experience

### NMA Deep Learning interactive course and project

International (Online)

NEUROMATCH ACADEMY

Jun. 2024 - May. 2024

- An interactive course, collaborating in pod-based learning format to study different subjects in Deep Learning.
- Topics: Basics of neural networks and Perceptron, CNNs, RNNs, Transformers, Generative models, Unsupervised and Reinforcement learning and Natural Language Processing
- Delivered a group project titled as "A Novel Approach For Detecting Fake News using Deep Learning Methods" which consisted of deploying and evaluating different models such as LSTM, Logical Regression and transformer models (BERT) with different embeddings for fake news detection.

### Teaching Assistant

Tehran, Iran

AMIRKABIR UNIVERSITY OF TECHNOLOGY

Sep. 2022 - Jun. 2024

- Basic Programming · Dr. Ghorbanali
- Advanced Programming · Dr. Ghatee
- Numerical Analysis · Dr. Nasr
- Data structures & Algorithms · Dr. Akbari

### Software Engineer

Tehran, Iran

TAMIN ICT

Mar. 2023 - Jun. 2023

- In the role of back-end developer, developed RESTful APIs for insurance services.
- Developed several useful handlers in the business holder user panel.
- Also took part in front-end for implementing the interactive web objects with angular.

### Software Engineering Intern

Tehran, Iran

QUERA

Jan. 2023 - Mar. 2023

- Mastered majority of software engineering necessary skills such as Web development, Databases and SQL, Project management, Microservices and App deployment.
- Developed a flight booking service with comprehensive user controls and payment features.
- Developed a phone number marketplace and rental with messaging services, message scheduling and payment.

## Skills

**Programming** Python, C++, C, Java, Go, SQL, HTML/CSS

**Tools** Git, Colab, Docker

**Libraries** PyTorch, TensorFlow, Numpy, Echo

**Software Engineering** OOP, Design Patterns, Message Queues (RabbitMQ), Rest API

**Operating Systems** Microsoft Windows, Linux (Ubuntu)

## Notable Projects

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### Fake News Detection

[NMA Project](#)

NATURAL LANGUAGE PROCESSING

*Python, PyTorch*

- A Novel Approach For Detecting Fake News using Deep Learning Methods
- Glove Embeddings + LSTM (both uni/bidirectional models) · TFIDF + Logistic Regression · Pretrained tokenizer + transformer model from BERT · CountVectorizer + Logistic Regression

### Image Encoder Decoder

[Deep Learning Course Project](#)

DEEP LEARNING

*Python, PyTorch*

- Training a model to two models to encode images of MNIST dataset into an array and decode the array back to normal form.
- Phase 1: Training a model to encode the 28x28 image to a 1x64 array using a convolutional network · Phase 2: Train a model to decode the array to its normal form of 28x28.

### KAN Implementation

[Deep Learning Course Project](#)

DEEP LEARNING

*Python, PyTorch*

- A basic implementation of Kolmogorov-Arnold Networks from scratch.

### MNIST-Like Image Generator

[Deep Learning Course Project](#)

DEEP LEARNING

*Python, PyTorch*

- An adversarial approach to generating images of digits trained on MNIST dataset.

## Languages

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**Persian** Native

**English** Working Proficiency · IELTS Academic (Mock): Overall Score: 8 (L: 8.5, R: 8.5, S: 7.5, W: 6.5)

**Dutch** Basic

## Extracurricular Activity

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### Mountain Climbing and Bouldering Supervisor

[Tehran](#)

AUT KOOHSARAN

*Nov. 2022 - Present*

- Planned and organized several hikes and trips for the universities mountain climbing group.
- Unofficial rock climbing and bouldering coach.

### Coding Tutor

[Karaj](#)

FREELANCE

*2020*

- Held classes and workshops for teaching basic programming to kids and students for free.

## References

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- 1 **Dr. Fateme Shakeri**, Department of Match and Computer Science [f.shakeri@aut.ac.ir](mailto:f.shakeri@aut.ac.ir)
- 2 **M.Hassan Shirali-Shahreza**, Department of Match and Computer Science [hshirali@aut.ac.ir](mailto:hshirali@aut.ac.ir)
- 3 **Zahra Ghorbanali**, PhD Student [z\\_ghorbanali@aut.ac.ir](mailto:z_ghorbanali@aut.ac.ir)