

## Education

### IUST University (among the top 4 universities in Iran)

B.Sc. in Computer Science at Iran University of Science & Technology

Tehran, Iran  
2020 - Feb 2025

- GPA of the Last Two Years: **4.0/4.0** (**18.5/20.0** on the Iranian Scale)
- Overall GPA: **3.98/4.0** (**18.3/20.0** on the Iranian Scale)
- Ranked among top **5%** GPA in my class
- Selected Courses (on the Iranian Scale): Natural Language Processing: 18.32/20, Artificial Intelligence: 17.54/20, Deep Learning: 20/20, Computer Vision: 17.88/20, Signals and Systems: 19.5/20, Computer Networks: 17.1/20

### Farzanegan High School

Diploma in Mathematics and Physics

Mazandaran, Iran  
2016 - 2020

- Grade: **19.90/20.0**

## Research Interests

- NLP
- Deep Learning
- Machine Learning
- Computer Vision
- Generative Models
- Recommender Systems
- Graph Neural Networks

## Research Experience

### Natural Language Processing Research Assistant in NLP Laboratory

Bachelor Thesis, School of Computer Engineering

IUST  
April 2024 - Present

- Supervisor: Dr. Sauleh Eetemadi
- Using RAG models for medical diagnosis.
- Exploring different models like GPT, Llama, and Med-Flamingo.
- Exploring different evaluation metrics like ragas metrics or llm as a judge method.

### Natural Language Processing Intern

Summer Internship

IUST  
Jun 2023 - Sep 2023

- Supervisor: Dr. Sauleh Eetemadi
- Worked on the “Visual Dialog in the medical Field” project and reviewed related articles. [GitHub](#)
- Implemented various Encoder-Decoder models and Attention Mechanisms using Keras & tensorflow.

## Skills

- **Programming Languages:** Python, Java, C, C++, C#, JS, SQL, HTML, CSS
- **Libraries and Frameworks:** Pytorch, Keras, TensorFlow, Scikit-Learn, Numpy, React JS
- **Environments and Tools:** Git, Postman, Azure Devops, Linux (Ubuntu)

## Teaching & Academic Experience

### Teaching Assistant

School of Computer Engineering

IUST  
Oct 2022 - Jan 2025

- **Artificial Intelligence** - Instructor: Dr. Mohammad-Reza Mohammadi - Fall 2024
- **Systems Analysis and Design** - Instructor: Dr. Mehrdad Ashtiani; - Fall 2024
- **Compilers** - Instructor: Dr. Saeed Parsa - Fall 2023
- **Fundamentals of Programming** - Instructors: Dr. Sauleh Eetemadi; Dr. Mehrdad Ashtiani; Dr. Marzieh Davoodabadi Farahani - Spring 2022, Spring 2023, Fall 2024
- **Advanced Programming** - Instructor: Dr. Sauleh Eetemadi - Fall 2022
- **Algorithms Design** - Instructor: Dr. Farzaneh Ghayour Baghbani - Fall 2024

## Academic Projects

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### NoWaste

System Analysis and Design Course Project

IUST  
Winter 2022

- It's an application for preventing the wastage of unsold food in restaurants and cafes.
- The application was developed with Scrum Methodology and I contributed to the front-end of it.
- Frontend is implemented with React JS. [GitHub](#)
- Backend is implemented with Django. [GitHub](#)

### Anti-Spoofing algorithm for checking the liveliness of faces in videos

Computer Vision Course Project - [GitHub](#)

IUST  
Spring 2024

- The project was for checking whether a face in the video is alive or not.
- In this project, two different models, including a feature-based and a deep learning model, were used.
- For the feature-based model, SVC was used.
- For the deep model, VGG16 and some extra un-pretrained layers were used.
- The data came from CASIA-FASD.

### Sentiment Analysis in Persian texts

Deep Learning Course Project - [GitHub](#)

IUST  
Winter 2024

- In this project, DistilBert model was used.
- In this project, different pre-processing methods like normalization, stemming, spell checking, and vectorization were used.
- The data came from ArmanEmo dataset.

### RAGs

NLP Course Project

IUST  
Spring 2024

- The first RAG project is for Chatbot for a website's FAQ which compares the result of three different generative models. [GitHub](#)
- The second RAG project is for organizational reports which use gpt2 in generation time. [GitHub](#)

### Theory of Languages and Automata Projects

TLA Course

IUST  
Winter 2021

- Implementing turing-machine. [GitHub](#)
- Implementing PDA-calculator. [GitHub](#)
- Implementing string-belongs-to-finite-automata. [GitHub](#)

## Honors & Certificates

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### Among the top 5% in my class in GPA (last two years:18.5/20, 18.3/20 overall)

School of Computer Engineering, IUST

Sep 2020 - Present

- Class of about 100 students

### Ranked Within the Top 0.7% in Iranian University Entrance Exam

Mathematics and Physics majors

July 2020

### Deep Learning Specialization

Certificate on [Coursera.org](#)

Sep 2023

- Includes courses on Neural Networks and Deep Learning, Machine Learning, Convolutional Neural Networks, Sequence Models

### Natural Language Processing with Classification and Vector Spaces

Certificate on [Coursera.com](#)

Sep 2023

- Covers many topics in NLP and Data Preprocessing using Python.

### Convolutional Neural Networks

Certificate on [Coursera.com](#)

Aug 2023

- Covers many topics about CNNs, object detection and face recognition.

### Algorithms on Graphs

Certificate on [Coursera.org](#)

Mar 2022

- Includes courses on graphs, MST and ASP.

### Data Structures

Dec 2021

Certificate on [Coursera.org](https://www.coursera.org)

- Includes courses on different data structures, hash tables and BST.

### Algorithmic Toolbox

Nov 2021

Certificate on [Coursera.org](https://www.coursera.org)

- Includes courses on greedy algorithms, divide-and-conquer algorithms and dynamic programming.

## Languages

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- **Persian:** Native speaker
- **English:**
  - IELTS: **Overall: 7**, Reading: **8**, Listening: **7.5**, Speaking: **6.5**, Writing: **6.5**

## Membership

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### Volunteer Member of Computer Engineering Scientific Association

IUST

School of Computer Engineering

Jan 2023 - May 2024

- **CESA LEARN:** Assisting in the organization of academic courses

## References

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### Dr. Sauleh Eetemadi

Iran University of Science & Technology - University of Birmingham

Assistant Professor at Department of Computer Engineering

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### Dr. Behrooz Minaei-Bidgoli

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Professor at Department of Computer Engineering

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### Dr. Marzieh Davoodabadi Farahani

Iran University of Science & Technology

Assistant Professor at Department of Computer Engineering

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