

# MohammadHossein Abbaspour

 MohammadHAbbaspour |  mohammad-hossein-abbaspour |  mohammadhabbaspour.github.io |   
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## EDUCATION

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2020 - 2025 Bachelor's Degree at **Iran University of Science and Technology (IUST)**

- Major: Computer Engineering
- GPA: 3.98/4.0 (18.93/20 Iranian Scale)
- Undergraduate project: Text classification using natural language processing algorithms
- Iran, Tehran, Tehran
- Ranked 4<sup>th</sup> among Iran universities based on [QS Ranking](#)

2017 - 2020 Diploma in Mathematics and Physics Discipline at **Shahid Bahonar**

- GPA: 4/4 (19.74/20 Iranian scale)
- Iran, Kerman, Kohbanan

## EXPERIENCE

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**Undergraduate Research Assistant**

Oct 2023 - Present

- Computer Engineering Department at IUST under the supervision of Dr. Sauleh Eetemadi
  - Working on text analysis using natural language processing and mathematical algorithms

**Undergraduate Intern**

Jul 2023 - Oct 2023

- Computer Engineering Department at IUST under the supervision of Dr. Sauleh Eetemadi
  - Worked on semantic textual similarity using probabilistic models
  - Participated in SemEval2024 international workshop ([SemEval-2024](#), [BRAINTEASER](#), 11% improvement compared to the baseline)

**Teaching Assistant**

Feb 2022 - Jan 2024

- Department of Computer Engineering, IUST
  - Software Engineering
  - Operating Systems
  - Competitive Programming
  - Digital Logic Circuits
  - Design of Algorithms
  - Fundamentals of Database Design
  - Theory of Languages and Automata
  - Data Structures
  - Advanced Programming
  - Discrete Mathematics
  - Fundamentals of Computer Programming

Fall 2023

Spring 2023

Fall 2022

Spring 2022

- NLP Lab at IUST
  - Utilized Django to improve the backend of the lab's website

## SELECTED PROJECTS

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### RAG-System

[Link to Code](#)

This is my project for my Natural Language Processing course in university. This system is used to provide advices for psychological issues that people face with them.

### Text-Classification

[Link to Code](#)

This project is from *Coursera*. For that, I fine tuned a transformer for single emotion labeling of texts.

### Persian-Sentiment-Analysis

[Link to Code](#)

This is my project for my Natural Language Processing course in university. In this project I fine tuned some transformers for sentiment annotation of persian texts.

### Semantic-Segmentation

[Link to Code](#)

This is my project for my Fundamentals of Computer Vision course in university. In this project I used Image Analysis algorithms for segmenting the solar panels in images.

### Object-Detection

[Link to Code](#)

This is my project for my Fundamentals of Computer Vision course in university. In this project I used Image Analysis algorithms for detecting the solar panels in images.

### Projma

[Link to Repo](#)

This is my project for my System Analysis and Design course in university. *Projma* is a project similar to *Trello* for project management and added some extra features like retro and meeting.

### Pharmacy-System

[Link to Code](#)

This is my project for my Data Structures course at university. This is a data structure to load large amounts of information about medicines and illnesses to suggest the appropriate medicine based on the query.

## RESEARCH INTERESTS

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- Mathematical optimization and Algorithms
- Efficient and Interpretable Computational Methods
- Text Analysis
- Logic Programming

## SKILLS

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Programming Languages	Python, C#, C, CPP
Libraries and Frameworks	Numpy, Pandas, Transformers, OpenCV, Django
Databases	SQL Server, MySQL, PostgreSQL
Tools and Technologies	Git, Linux
Languages	English(IELTS: 7.0), Persian(Native Speaker)
Soft Skills	Teaching & Presentation, Documenting & Reporting, Team Work & Collaboration

# HONORS & AWARDS

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- Ranked among the top 10% GPA in my class

2020 - 2024

  - Class of about 100 students
- Presenter at the *Scientific Association of the Computer Engineering Departement*

2024

  - Honorary member of scientific association
  - Presented my bachelor’s experience and knowledge to first year students

# SELECTED ACADEMIC COURSES

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Fundamentals of Computer Programming	A+	Fundamentals of Computer Vision	A+
Fundamentals of Speech and Language Processing	A+	Fundamentals of Deep Learning	A+
Graph Theory and Algorithms	A+	Software Engineering	A+
Advanced Programming	A+	Data Structures	A+
Engineering Statistics and Probabilities	A+	Signals and Systems	A+
Principles of Databases Design	A+	Operating Systems	A+
Theory of Languages and Machines	A+	Data Transferring	A+

# SELECTED ONLINE COURSES

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Natural Language Processing with Classification and Vector Spaces <a href="#">[Certificate Link]</a>	Coursera
Natural Language Processing with Probabilistic Models <a href="#">[Certificate Link]</a>	Coursera
Natural Language Processing with Sequence Models <a href="#">[Certificate Link]</a>	Coursera
Natural Language Processing with Attention Models <a href="#">[Certificate Link]</a>	Coursera
Sequence Models <a href="#">[Certificate Link]</a>	Coursera

# PUBLICATION

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- “IUST-NLPLAB at SemEval-2024 Task 9: BRAINTEASER By MPNet (Sentence Puzzle)“ ([Link](#))
  - **Mohammad Hossein Abbaspour**, Erfan Moosavi Monazzah, Sauleh Eetemadi

# REFERENCE

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- **Dr. Sauleh Eetemadi** (Assistant Professor)  
Iran University of Science and Technology  
Department of Computer Engineering  
**Email:** [sauleh@iust.ac.ir](mailto:sauleh@iust.ac.ir)