

MohammadHossein Abbaspour

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

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 **4th** among Iran universities based on [QS Ranking](#)

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

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

EXPERIENCE

Undergraduate Research Assistant

Oct 2023 - Present

- NLP Lab, Department of Computer Engineering, IUST
- Under the supervision of Dr. Sauleh Eetemadi
- Working on text analysis using natural language processing and mathematical algorithms
- Text classifying using multi-LLM

Undergraduate Intern

Jul 2023 - Oct 2023

- NLP Lab, Department of Computer Engineering, 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, Department of Computer Engineering, IUST
- Under the supervision of Dr. Sauleh Eetemadi
- Utilized Django to improve the backend of the lab's website

SELECTED PROJECTS

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

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

SKILLS

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

- 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

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

Natural Language Processing with Classification and Vector Spaces [Certificate Link]	Coursera
Natural Language Processing with Probabilistic Models [Certificate Link]	Coursera
Natural Language Processing with Sequence Models [Certificate Link]	Coursera
Natural Language Processing with Attention Models [Certificate Link]	Coursera
Sequence Models [Certificate Link]	Coursera

PUBLICATION

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

REFERENCE

- **Dr. Sauleh Eetemadi** (Assistant Professor)
Iran University of Science and Technology
Department of Computer Engineering
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