MohammadHossein Abbaspour

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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**

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

EXPERIENCE

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

Backend Web Developer Intern   Jul 2021 - Oct 2021

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

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.

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
- 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

PUBLICATION

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