

# Hamidreza Namjoomanesh

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## EDUCATION

### Islamic Azad University of Shiraz

*Bachelor of Computer Engineering*

Shiraz, Iran

*Sep 2022 - Expected Jun 2026*

- Cumulative GPA (up to 6th semester): 17.53 / 20 ( 3.6 / 4.0)
- Notable Courses: Data Structures, Algorithm Design, Artificial Intelligence, Compiler Design, Probability and Statistics for Engineers

## RESEARCH INTERESTS

• Natural Language Processing • Machine Learning • Deep Learning • Human-Computer Interaction

## RESEACH EXPERIENCE

### Research Assistant

Oct 2023 – Dec 2023

*Islamic Azad University of Shiraz*

*Shiraz, Iran*

- Contributed to an interdisciplinary research project focused on AI-aided design and modeling of engineering components using 3D printing.
- Developed a mobile application to present the background and technical aspects of the project to visitors and judges at the Iran 2023 Research and Technology Exhibition.
- Project was recognized among the top innovations nationwide. Earned a Research Assistant Fellowship and tuition discount for academic excellence.

## PROJECTS

### Tajrobiat Chatbot: Retrieval-Augmented Academic Advisor Chatbot

Mar 2025

*RAG Chatbot*

- Available on Github Repo: [github.com/hrnxb/IAUCourseExp-Adviser-bot](https://github.com/hrnxb/IAUCourseExp-Adviser-bot)
- Developed a chatbot for querying real-world course professor reviews using RAG (Retrieval-Augmented Generation). Combined FAISS, Pandas, and HF models for embedding to build a scalable question-answering system over semi-structured data.

## TEACHING EXPERIENCE

### Chief Teaching Assistant

Apr 2024 – Now

*Islamic Azad University of Shiraz*

*Shiraz, Iran*

- Data Structures, Physics II Lab, Operation System Lab, Software Engineering Lab, Computer Networking Lab, Database Lab, Internet Engineering

### Teaching Assistant

Sep 2022 – Jun 2023

*Islamic Azad University of Shiraz*

*Shiraz, Iran*

- Introduction to Computer Engineering, Advanced Programming

## WORK EXPERIENCE

### Junior Data Analyst (Freelance)

Oct 2024 – Present

*Remote (Clients in Hong Kong)*

- Led end-to-end data analysis projects for international clients across various industries, working remotely from Iran.
- Specialized in Natural Language Processing (NLP), performing unstructured text mining, trend detection, and insight extraction using Python and Pandas.
- Built and evaluated NLP pipelines for document classification, keyword extraction, and semantic search.
- Collaborated on several computer vision tasks, gaining experience in image processing and feature extraction using OpenCV and PyTorch.

## TECHNICAL SKILLS

**Programming Languages:** Python, C/C++, SQL, HTML/CSS, JavaScript (basic)

**Machine Learning & Deep Learning:** PyTorch, Scikit-Learn, Keras, XGBoost, LightGBM

**Natural Language Processing:** HuggingFace Transformers, spaCy, NLTK, Gensim, Pattern, TextBlob, CoreNLP, Polyglot, Fairseq, Jina

**Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Plotly

**Experiment Tracking & Deployment:** Weights & Biases (WandB), Gradio, Streamlit, Docker (basic)

**Databases & Tools:** MySQL, MongoDB, FAISS, LangChain

**Version Control & Collaboration:** Git, GitHub

**Soft Skills:** Critical Thinking, Problem-Solving, Technical Writing, Presentation, Team Collaboration

**Languages:** Persian (Native), English (Professional)

## LICENSES & CERTIFICATIONS

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### TOEFL Exam

To be taken soon

*Educational Testing Service (ETS)*

- \* Registration completed

### Machine Learning Specialization

Jul 2024

*Coursera - Stanford*

- \* Credential ID: UTHWV46VBMQZ
- \* Comprehensive specialization covering supervised and unsupervised machine learning techniques, including regression, classification, clustering, and neural networks.
- \* Includes practical projects and assignments using Python and real datasets.

### Mathematics for Machine Learning and Data Science

Dec 2023

*Coursera - Stanford*

- \* Credential ID: GXVNXGWFSSNX
- \* Focused on fundamental mathematics for machine learning such as linear algebra, calculus, probability, and statistics.
- \* Designed to provide strong theoretical foundation for data science and ML applications.

### Algorithms Specialization

Nov 2023

*Coursera - Stanford*

- \* Credential ID: DPZFSEVY48GM
- \* Covers fundamental algorithmic techniques including divide and conquer, greedy algorithms, dynamic programming, graph search, shortest paths, NP-completeness, and approximation algorithms.
- \* Includes multiple programming assignments and real-world applications of theoretical algorithms.

## HOBBIES

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### YouTube Channel (HamidDidIt)

April 2021 – Present

*YouTube*

- \* Channel link: [youtube.com/c/HamidDidIt](https://youtube.com/c/HamidDidIt)
- \* Create educational videos on Artificial Intelligence, Machine Learning, Deep Learning, and Natural Language Processing.
- \* Focus on project-based, technically accurate, and student-friendly content aimed at both beginners and advanced learners.

## HONORS & AWARDS

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### Research Assistant Fellowship Award

December 2023

*Islamic Azad University of Shiraz*

- \* Awarded RA Fellowship and tuition discount in recognition of academic excellence and research impact during national research exhibition.

### Top 5% of Entering Class (2022)

Ongoing

*Islamic Azad University of Shiraz*

- \* Ranked among top 5% of students in the 2022 entering cohort.

## REFERENCES

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### Dr. Amin Eskandari

*Assistant Professor*

- \* Computer Engineering Department, Islamic Azad University of Shiraz, Shiraz, Iran
- \* E-mail: [eskandary.a@gmail.com](mailto:eskandary.a@gmail.com)
- \* Relationship: Head of Computer Engineering Department

### Dr. Asghar Jahed

*Assistant Professor*

- \* Computer Engineering Department, Islamic Azad University of Shiraz, Shiraz, Iran
- \* E-mail: [jahed20231403@gmail.com](mailto:jahed20231403@gmail.com)
- \* Relationship: Professor