

Hamidreza Namjoomanesh

hrnxb.github.io | hamidrezanamjoomanesh@gmail.com | linkedin.com/in/hamid-namjoo

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

Islamic Azad University of Shiraz

Oct 2023 – Dec 2023

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

CourseAdvisor: RAG Chatbot for Academic Course Selection

Mar 2025

RAG Chatbot

- Available on Github Repo: github.com/hrnrbx/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.

Sarcasm-Aware Sentiment Classifier (RoBERTa + BiLSTM + Attention)

Jul 2025

NLP Classification Project

- Available on Github Repo: github.com/hrnrbx/Advanced-Sentiment-Classifer-RoBERTa-BiLSTM-Attention
- Built a hybrid deep model to classify sentiment with sarcasm & contrast-aware handling. Combined RoBERTa embeddings with BiLSTM + attention to improve detection on ambiguous and ironic reviews.
- Deployed interactive demo on HuggingFace Spaces using Gradio; trained on IMDB with custom sarcasm samples and error analysis.

AI News Aggregator Bot (Automated, Real-time)

Jul 2025

AI/ML/DL/NLP News Aggregation & Automation Project

- Available on GitHub: github.com/hrnrbx/AI-News-Aggregator-Bot
- Developed a robust Python-powered bot for real-time aggregation of cutting-edge AI, ML, DL, and NLP news from over 25 diverse sources (top research blogs, GitHub Trending, Hacker News, Reddit).
- Engineered a comprehensive system utilizing **RSS feeds**, **web scraping**, and **API integration** for efficient data collection.
- Implemented **persistent storage (SQLite)** for intelligent duplicate prevention across runs, ensuring unique news delivery.
- Deployed via **GitHub Actions** for fully automated, scheduled updates every 5 hours, demonstrating CI/CD best practices and secure credential handling.

TEACHING EXPERIENCE

Chief Teaching Assistant

Islamic Azad University of Shiraz

Apr 2024 – Now

Shiraz, Iran

- Data Structures (for 3 consecutive semesters), Physics II Lab, Operation System Lab, Software Engineering Lab, Computer Networking Lab, Database Lab, Internet Engineering

Teaching Assistant

Islamic Azad University of Shiraz

Sep 2022 – Jun 2023

Shiraz, Iran

- Fundamental of Computer and Programming, Advanced Programming

WORK EXPERIENCE

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| Junior Data Analyst (Freelance) <i>Remote</i> <ul style="list-style-type: none">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. | Oct 2024 – Present <i>Hong Kong</i> |
| Founder, Artificial Intelligence Association of Shiraz IAU <i>Islamic Azad University of Shiraz</i> <ul style="list-style-type: none">Founded and lead the First official AI association at Islamic Azad University of Shiraz, organizing academic events, technical workshops, and collaboration spaces for AI enthusiasts.Organized academic events, technical workshops, and interdisciplinary meetups focused on AI, ML, and NLP. | Nov 2024 – Sep 2025 <i>Shiraz, Iran</i> |

TECHNICAL SKILLS

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| 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 <i>Educational Testing Service (ETS)</i> <ul style="list-style-type: none">Registration completed | To be taken soon |
| Machine Learning Specialization <i>Coursera - Stanford</i> <ul style="list-style-type: none">Credential ID: UTHWV46VBMQZComprehensive 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. | Jul 2024 |
| Algorithms Specialization <i>Coursera - Stanford</i> <ul style="list-style-type: none">Credential ID: DPZFSEVY48GMCovers 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. | Nov 2023 |

HOBBIES

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| YouTube Channel (HamidDidIt) <i>You Tube</i> <ul style="list-style-type: none">Channel link: youtube.com/@HamidDidItCreate 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. | April 2021 – Present |
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HONORS & AWARDS

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| Research Assistant Fellowship Award <i>Islamic Azad University of Shiraz</i> <ul style="list-style-type: none">Awarded RA Fellowship and tuition discount in recognition of academic excellence and research impact during national research exhibition. | December 2023 |
| Top 5% of Entering Class (2022) <i>Islamic Azad University of Shiraz</i> <ul style="list-style-type: none">Ranked among top 5% of students in the 2022 entering cohort. | Ongoing |

REFERENCES

Dr. Amin Eskandari

Assistant Professor

- Computer Engineering Department, Islamic Azad University of Shiraz, Shiraz, Iran
- E-mail: 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
- Relationship: Professor