

# 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

## Research 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

### CourseAdvisor: RAG Chatbot for Academic Course Selection

Mar 2025

*RAG Chatbot*

- Available on Github Repo: [github.com/hrnrxb/IAUCourseExp-Adviser-bot](https://github.com/hrnrxb/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/hrnrxb/Advanced-Sentiment-Classifer-RoBERTa-BiLSTM-Attention](https://github.com/hrnrxb/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/hrnrxb/AI-News-Aggregator-Bot](https://github.com/hrnrxb/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.

### Text-to-Speech (TTS) Bot with Adjustable Voice Parameters

Jul 2025

*AI/NLP/Speech Synthesis Project*

- Developed an interactive Text-to-Speech (TTS) bot for web deployment, enabling users to convert text to speech with adjustable parameters (Speed, Pitch, Volume).
- Engineered the system using **Coqui TTS** for high-quality audio generation and **Gradio** for a user-friendly interface.
- Implemented real-time waveform visualization for generated speech, enhancing user interaction and data presentation.
- Deployed successfully on **Hugging Face Spaces**, demonstrating practical proficiency in audio processing, web integration, and cloud deployment of AI models.
- Available on GitHub: [github.com/hrnrxb/TTS-with-Adjustable-Voice-Parameters](https://github.com/hrnrxb/TTS-with-Adjustable-Voice-Parameters)

## Teaching Experience

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### 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)

Remote

Oct 2024 – Present

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.

### Founder, Artificial Intelligence Association of Shiraz IAU

Islamic Azad University of Shiraz

Nov 2024 – Sep 2025

Shiraz, Iran

- 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.

## 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)

## Honors & Awards

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### Research Assistant Fellowship Award

Islamic Azad University of Shiraz

December 2023

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

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

Islamic Azad University of Shiraz

Ongoing

- 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
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### Dr. Asghar Jahed

Assistant Professor

- Computer Engineering Department, Islamic Azad University of Shiraz, Shiraz, Iran
- E-mail: jahed20231403@gmail.com