Ali Mirzaei | M.Sc. Data Mining
Machine Learning & AI Enthusiast

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About Me

A master's student in Data Mining at Shahid Beheshti University, with a bachelor's degree in Computer Science from Ferdowsi University of Mashhad, driven by a deep curiosity about how intelligent systems learn, adapt, and make decisions. My interests include large language models, neural networks, deep learning, and reinforcement learning, especially their use in expert systems and real-world AI applications. I'm passionate about leveraging these technologies to build intelligent and adaptive systems that make technology more adaptive and impactful.

Educations

Shahid Beheshti University (SBU)   **Tehran, Iran**
M.Sc. in Data Mining   *2025–Present*
Focused on Machine Learning, Data Analysis, and AI Systems.

Ferdowsi University of Mashhad (FUM)   **Mashhad, Iran**
B.Sc. in Computer Science   *2020–2024*
Developed a strong foundation in algorithms, software engineering, and artificial intelligence.

Selected Projects

Automated Customer Support (RAG-based Chatbot): Built a Retrieval-Augmented Generation (RAG) chatbot using **DSPy**, **ChromaDB**, and **Sentence-Transformers** for context-aware responses, with **Telegram** and terminal interfaces. Evaluated performance using **RAGAS**.

LibPilot (Smart Library Assistant): Developed an AI assistant that converts natural language queries into **pandas** commands using **ollama** LLM, providing conversational access to a library database via CLI.

Diabetes Prediction (GA-based Feature Selection): Predicted diabetes using **SVM**, **TwinSVM**, and ensemble models, applying a **Genetic Algorithm** for feature selection to improve accuracy and efficiency.

Skills

Languages & Core Tools: Python, SQL, Git, Docker, LaTeX, Linux

Data Science Libraries: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn

ML Frameworks & Libraries: TensorFlow, PyTorch, Sentence-Transformers, LangChain, Hugging Face

Focus Areas: Large Language Models (LLMs), Expert Systems, Retrieval-Augmented Generation (RAG), Data Mining, Applied AI Systems

Experience

2023–2024: Worked on academic and personal projects in applied AI and data science. Collaborated on machine learning pipelines, predictive modeling, and NLP systems using Python.

Languages

English: Professional working proficiency
Persian: Native