

Shahid Ali

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ABOUT ME

AI Engineer and Master's student in Artificial Intelligence at the University of Verona, specializing in machine learning, deep learning, generative AI, and reinforcement learning. Experienced in building end-to-end AI applications using Python, PyTorch, scikit-learn, LangChain, LangGraph, and Hugging Face. Interested in applied AI, autonomous agents, RAG systems, and multi-agent reinforcement learning.

SKILLS

Machine Learning | Deep Learning | Computer Vision | Agentic AI | Generative AI | RAG

Programming

C++ Language | Python | HTML

Frameworks

LangChain | Hugging Face | LangGraph | API keys | LangSmith | Render | CrewAI

Libraries

PyTorch | Pandas | Sci Kit Learn | Matplotlib | Seaborn | OpenCV | TensorFlow

Reinforcement Learning

SAC, | PPO | Stable Baselines3 | Multi-Agent RL

WORK EXPERIENCE

UNIVERSITÀ DI VERONA - VERONA, ITALY

RESEARCH INTERN - 10/05/2026 - Current

- Building custom CityLearn environments for multi-agent reinforcement learning in building energy management.
- Analyzing and comparing two state-of-the-art MARL algorithms in terms of complexity and performance.
- Training RL agents using SAC and PPO with Stable Baselines3.

MACHINE LEARNING ENGINEER INTERN - 17/03/2026 - 17/05/2026

- Developed and evaluated classification and regression models using scikit-learn, including Logistic Regression, Random Forest, SVM, and Linear Regression.

DEEP LEARNING INTERN - 04/12/2024 - 06/02/2025

- Designed and implemented deep learning models for image classification and prediction
- Built and trained convolutional neural networks for computer vision projects
- Evaluated models using accuracy, precision, recall, and F1 score.
- Collaborated with team members to integrate trained models into application pipelines

PROJECTS

Multi Tool Personal Research Agent

- Researches a topic using web search, arXiv, and Wikipedia.
- Generates structured briefs with Summary, Key Findings, Sources, Open Questions.
- Tags sources by reliability, High, Medium, Low.
- Saves notes locally in JSON.
- Exports briefs as Markdown and PDF.
- Supports model fallback handling.

PDF RAG Assistant

- Chat-style Q&A over your uploaded PDFs
- Local vector store using Chroma (./chroma_db)
- Citation-aware answers with file + page references
- Embedding fallback support for environments where local model loading fails

AI-Powered Supply Chain Risk Prediction and Optimization Dashboard

Developed a Streamlit-based analytics dashboard using machine learning and a LangGraph AI agent to predict supply chain risks, detect anomalies, monitor inventory, and generate management reports from CSV/Excel data.

Ai-Data-Analyst-Agent

- Built a Streamlit dashboard for analyzing CSV and Excel datasets with an AI-powered data analyst agent.
- Integrated OpenAI, LangChain, and LangGraph to support natural-language questions and automated insights.
- Added automatic chart recommendations, manual chart builder, correlation heatmap, and anomaly detection.
- Implemented data cleaning assistance, machine learning model training, chat history, SQLite connection, and report export.

Research Navigator

a Streamlit powered web application that helps users discover and preview research papers on arXiv. Implemented search and summarization features using natural language processing models.

Autonomous Research Assistant

Built an agentic AI application that searches web, arXiv, and Wikipedia sources, summarizes findings, ranks source reliability, and exports reports in Markdown/PDF.

Legal Document Question and Answer System

Developed a PDF-based question-answering system using local vector search with Chroma and citation-aware answers with page references.

Facial Emotion Recognition

Detect happy, sad, angry from FER2013

EDUCATION AND TRAINING

03/10/2023 – CURRENT Verona, Italy

MASTER IN ARTIFICIAL INTELLIGENCE Università degli Studi di Verona

Website <https://www.univr.it/>

02/12/2018 – 02/12/2022 Jamshoro, Pakistan

BACHELOR OF ENGINEERING IN INDUSTRIAL ENGINEERING AND MANAGEMENT Mehran University of Engineering and Technology, Jamshoro, Pakistan

Website <https://www.muett.edu.pk/>

LANGUAGE SKILLS

Mother tongue(s): **SINDHI | URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
ITALIAN	A2	A2	A2	A2	A2

THESIS

08/02/2026 – CURRENT

Thesis / Research (In Progress) "Reinforcement Learning for Building Energy Management — CityLearn 2023 Control Track

Developing a custom CityLearn-based reinforcement learning environment for energy-efficient building control, including PV solar panels, battery storage, HVAC, and domestic hot water systems. Training and evaluating SAC and PPO agents with Stable Baselines3 for multi-agent building energy management and performance optimization.