

# Hanzla Nawaz

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## EDUCATION

### Superior University

Bachelor of Science in Artificial Intelligence  
Cumulative GPA: 3.30/4.0

Raiwind Road, Lahore  
June 2024

## TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL, NoSQL, HTML/CSS

Frameworks & APIs: FastAPI, Flask, REST APIs, Django

Machine Learning: PyTorch, TensorFlow, Scikit-learn

AI & NLP: Hugging Face Transformers, OpenAI GPT, BERT, LangChain, RAG, LangGraph, CrewAI

Computer Vision: Vision Transformers (ViT), OpenCV, Gradio

MLOps & DevOps: Docker, MLflow, CI/CD, GitHub Actions, Git

Cloud & Databases: AWS, GCP, PostgreSQL, MongoDB, MS SQL Server, Pinecone, Qdrant (vector DBs)

Data Tools: Pandas, NumPy, Plotly, Matplotlib, Jupyter

## WORK EXPERIENCE

### XEVEN SOLUTIONS (Pvt) Ltd.

Associate Machine Learning Engineer

Johar Town, Lahore  
April 2024 – Present

- Building LLM-powered applications using OpenAI APIs to automate workflows and accelerate customer insights generation.
- Developing high-performance backend systems with FastAPI, achieving 99.8% system uptime and scalable API performance.
- Implementing retrieval-augmented generation (RAG) pipeline using LangChain and vector search, boosting contextual query accuracy by 30%.
- Optimization of Pinecone and Qdrant vector databases for semantic search, achieving sub-second query latency.
- Architected PostgreSQL and MS SQL Server schemas for application logging and bot history management.
- Work closely with data scientists, software engineers, and stakeholders to align ML solutions with business objectives.

### OMDENA | Remote

Machine Learning Engineer

November 2023 – October 2024

- Automated preprocessing of tuberculosis case data in Kaduna, Nigeria, reducing manual data-cleaning effort by 50%.
- Developed predictive regression models for TB case outcomes, improving forecast accuracy by 15% to support public health interventions.
- Collaborated with global teams to counter misinformation in Nepal, leveraging AI tools (CrewAI, Groq API) to identify and flag false content.
- Implemented data validation and quality assurance protocols for healthcare datasets.

## CERTIFICATIONS & TRAINING

- Generative AI with LLMs (March 2024)
- IBM Data Science Professional Certificate (March 2023)
- Introduction to Cybersecurity Tools & Cyber Attacks (May 2022)
- GRC Analyst (March 2022)
- Data Manipulation with pandas (April 2022)
- Intermediate Python (October 2021)