

# Umair Inayat

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## OBJECTIVE

Software Engineer with expertise in **Machine Learning, Deep Learning, and Large Language Models**. Skilled in **PyTorch, TensorFlow**, and modern **ML frameworks** for building **AI applications, mobile apps, and computer vision systems**. Proven track record in competitive programming and research with top ML competition rankings.

## EDUCATION

### University of Management and Technology

Lahore, Pakistan

Bachelor of Science in Computer Science, GPA: 3.82

2022 – 2026

- Merit Awards: Fall 2023 (Dean Award) & Fall 2024 (Rector Award). Coursework: Data Structures, ML/DL, SE, NLP, Database, OS

## EXPERIENCE

### AI/ML Intern

Jul 2025 – Sep 2025

Texense (Remote)

Lahore, Pakistan

- Contributed to **AI/ML solutions** for production-level projects with emphasis on **scalability** and practical implementation. Collaborated across teams to develop **intelligent systems** and strengthened core ML skills in **model development, optimization, and deployment**

### Teaching Assistant

Mar 2024 – Present

University of Management and Technology

Lahore, Pakistan

- Assisted in teaching **OOP, Data Structures, Database, ML/DL, OS, and Automata**, supporting 100+ students and mentoring in complex programming concepts and project development

## SKILLS

**Languages:** C++, Python, JavaScript, HTML, CSS, SQL

**Frameworks/Libraries:** PyTorch, TensorFlow, Keras, Hugging Face, Django, FastAPI, Flask, LangChain, LangGraph

**ML/AI Tools:** Deep Learning, NLP, Computer Vision, Data Science, Generative AI, Model Quantization

**Development Tools:** Git, GitHub, VS Code, Jupyter, Google Colab, SQLite, PostgreSQL

**Soft Skills:** Team Collaboration, Problem Solving, Research, Leadership, Communication, Project Management

## PROJECTS

### Research Paper Analyzer | *Django, Python, LangChain, Groq API, PostgreSQL*

2025

- Built **AI-powered web app** integrating **ArXiv, Google Scholar, PubMed, IEEE** for comprehensive paper search and analysis with **LangChain** and **Groq API** for methodology and impact assessment

### Multimodal AI Text Detection with XAI | *Python, PyTorch, RoBERTa, LIME, SHAP*

2025

- Developed **XAI framework** achieving **98.4% binary** and **86.8% 12-class accuracy** by combining **RoBERTa embeddings** with stylometric features and integrated **LIME, SHAP, Captum** for explainability

### EmotiEase: Mental Health Mobile App | *Flutter, Python, FastAPI, LLaMA 2*

2025

- Created **Flutter app** with personalized **AI chatbot**, fine-tuned **LLaMA 2** on therapist-client data and **quantized** for efficient deployment

### Mental Illness Detection Research | *Python, PyTorch, QLoRA, LLaMA 2*

2025

- Enhanced model accuracy from **85% to 93%** using **QLoRA fine-tuning** on **LLaMA 2** for Reddit post analysis

### Satellite Imagery Object Detection | *YOLO, Computer Vision, Python*

2024

- Implemented **YOLO models** (v3, v5, v8, v11) on NESA dataset, improving SOTA performance by **3%** through optimization

### Machine Translation with Transformers | *Python, PyTorch, Attention Mechanism*

2024

- Implemented **Transformer architecture** from scratch based on "Attention is All You Need" paper

## AWARDS & ACHIEVEMENTS

**TechnoVerse Comsat ML Competition (2025):** 3rd Position - 66 tree species classification with 118k instances

**SofTech ML Competition (2025):** 4th Position - Hospital readmission prediction among 30 teams

**Academic Excellence:** Merit Awards Fall 2023, Fall 2024 & Spring 2025, GPA: 3.82/4.0

## CERTIFICATIONS

Machine Learning Specialization - Coursera (Andrew Ng) | Deep Learning Specialization - Coursera | Data Scientist in Python - DataCamp | MLOps Bootcamp with 10+ End-to-End ML Projects