

Career Objective

Recent Software Engineering graduate with expertise in machine learning, computer vision, and LLM applications. Experienced in building and deploying AI systems using Python, PyTorch, and modern ML frameworks. Proven track record of developing end-to-end solutions including real-time computer vision models and document-aware AI assistants. Seeking a Junior AI/ML Engineer role to contribute to scalable AI solutions while continuously learning and growing in a collaborative team environment.

Education

Abbottabad University of Science & Technology

BSc in Software Engineering

2021 – 2025

Experience

Backend Developer

Freelancing HUB – Abbottabad University of Science & Technology

2024 – July 2025

- Developed backend functionalities for university freelance platform.
- Integrated APIs and managed databases for student project tracking.
- Worked in a cross-functional team to streamline platform performance.

Organizer

Google DevFest Peshawar

2019– 2021

- Organized large-scale tech events and facilitated developer workshops.
- Represented the Google Developer community at regional events.

Ambassador

Youth RoboTech Peshawar

2021 – 2022

- Promoted AI and robotics through youth-focused bootcamps and seminars.
- Conducted educational sessions to foster STEM interest among students.

Certification

- Career Essential in Generative AI – Microsoft & LinkedIn
- Python Programming | NumPy & Pandas Bootcamp – Open weaver
- Basics of Python Programming Bootcamp - Open weaver
- Networking Academy Learn-A-Thon 2022 - Cisco

Technical Projects

Violence Prediction Model in Real-Time: Enhanced public safety monitoring by achieving 75% accuracy in violence detection by training and deploying a YOLOv8 computer vision model with real-time preprocessing using OpenCV. Improved model performance on resource-constrained devices by reducing inference time by 60% by implementing multithreading optimization and frame skipping techniques. Enabled versatile deployment capabilities supporting live video streams, pre-recorded videos, and static images by building a comprehensive classification pipeline with YOLOv8 architecture.

Freelancing Platform Backend: Streamlined university project management by supporting 250+ student users and 50+ active projects by designing and implementing a scalable backend using FastAPI and PostgreSQL database architecture. Enhanced platform security and user experience by achieving 99.5% uptime during testing phase by developing robust RESTful APIs for user authentication, project listings, and bidding system with JWT token implementation. Improved development workflow efficiency by reducing deployment time by 40% by collaborating with frontend team using Git version control and implementing automated database migrations from SQLite to PostgreSQL.

LLM-powered Research Assistant: Revolutionized document-based information retrieval by achieving 90% accuracy in contextual responses with 75% reduction in hallucination by building a RAG-powered AI assistant using LangChain and LlamaIndex frameworks. Optimized large-scale document processing by enabling semantic search across 100+ document corpus with sub-50ms response times by implementing advanced chunking strategies and vector embeddings with ChromaDB storage. Enhanced AI assistant capabilities by providing autonomous task completion and multi-modal interaction by deploying via FastAPI backend with integrated agentic tools and HuggingFace model integration.

SKILLS

Programming Languages: Python, SQL
AI/ML Frameworks: PyTorch, TensorFlow, Keras, scikit-learn, OpenCV, YOLO
LLM & Agentic AI: LangChain, LlamaIndex, RAG, HuggingFace Transformers, ChromaDB, FAISS
Databases: PostgreSQL, MySQL, SQLite, MongoDB
Web Technologies: FastAPI, REST APIs
Tools & Platforms: Git, Docker, GCP, Firebase
Data Processing: Pandas, NumPy, Web Scraping (Scrapy, Selenium, BeautifulSoup)

VOLUNTEER WORK

- Ambassador of Shaukat Khanum Memorial Hospital