**Muhammad Umar**

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**Career Objective**

Ambitious BSc Artificial Intelligence student with hands-on experience building LLM and computer-vision solutions. Seeking internships in AI, automation, and agentic systems to apply practical skills in RAG, LangChain, and workflow automation.

**Education**

FAST National University of Computer and Emerging Sciences, Islamabad — BSc in Artificial Intelligence (Aug 2022 – Present)

Cadet College Swat, Swat — FSc in Pre-Engineering (Gold Medalist) (Apr 2019 – Jun 2021)  
GPA: 3.65 / 4.00

**Skills**

▪ Programming Languages: Python, PyTorch, TensorFlow

▪ Web Development: HTML, CSS, JavaScript, React

▪ Databases: MySQL, MongoDB

▪ Tools: Git, VS Code, Figma, OpenCV, YOLOv8, CLIP, GroundingDINO, n8n, RPA, API Integration

▪ Data Analysis and Visualization

▪ Team Collaboration & Communication

▪ Languages: English, Urdu

**Experience / Internships**

**AI Intern, Techable 360** — On-site (Jun 2025 – Aug 2025)

▪ Designed and developed n8n automation workflows for intelligent process automation.

▪ Built scalable low-code automation solutions integrating external APIs and services.

▪ Streamlined operations via pipeline integration and workflow optimization.

**AI Intern, EmpowerBits** — On-site (May 2024 – Aug 2024)

▪ Developed LangChain-based LLM applications integrated with Modern Context Protocol (MCP).

▪ Contributed to Agent-to-Agent (A2A) protocol development for coordinated agent workflows.

▪ Enhanced multi-agent interaction protocols for improved automation.

**Projects / Research**

**SurvailX** — Intelligent Video Surveillance (2025) — Python, Computer Vision, Visual Prompting, CLIP

▪ Anomaly detection using pose detection and visual prompting; implemented natural-language semantic search to retrieve relevant video segments.

**EchoTales** — The Voice of Stories (2024) — Python, TTS, Dia Model

▪ Text-to-Speech app using the Dia model with adjustable narration speed; created interactive narration interface.

**PDF Assistant using RAG (2024**) — Python, LangChain, Vector DBs

▪ Built a RAG-based PDF QA assistant enabling natural-language querying of documents.

**Hospital Management Website** (2024) — React, Tailwind CSS, Node.js, Next.js

▪ Developed responsive hospital management system for appointments, patient records, and staff workflows.

**Achievements / Extracurricular Activities**

▪ Gold Medalist — Cadet College Swat (FSc)

**References**

Available upon request.