

Abdul Munim Baig

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Professional Summary

Motivated Computer Science undergraduate with a solid foundation in programming, machine learning, and full-stack development. Hands-on experience in projects ranging from AI-powered applications to backend engineering and distributed systems. Skilled in Python, C++, Java, and SQL, and eager to contribute expertise to real-world, high-impact projects.

Education

Bachelor of Science in Computer Science

FAST National University, Islamabad

Aug 2022 – Aug 2026 (Expected)

Experience

Intern (IT Department) — Pakistan Tobacco Company

Jun 2025 – Aug 2025

- Built a Power Apps + Power Automate based **Leave Management System** for workflow automation.
- Worked on enterprise digital solutions using Microsoft Power Platform.

Machine Learning Engineer Intern — Genesys Research Lab

Jun 2024 – Aug 2024

- Performed dataset preprocessing using NumPy, Pandas, Matplotlib.
- Developed backend services using Node.js, Express.js, MongoDB.

Lab Demonstrator (COAL) — FAST National University

Jan 2024 – May 2024

- Evaluated lab work and provided structured technical feedback.

Projects

- **Employee Management System** — *React, Spring Boot, SQL*: Full-stack employee management platform with React UI, Spring Boot REST API, and SQL CRUD operations.
- **MedBot – AI Medical Query Assistant** — *Python, Flask, TensorFlow, Gemini API*: AI chatbot for medical queries using a quantized Llama 3.1 8B local model and a Gemini 1.5 API version.
- **Distributed File System (Mini-IPFS)** — *C++, SHA-1, B-Tree*: Ring-based DHT with B-Tree indexing for distributed storage, lookup, and fault-tolerant data distribution.
- **Multimodal Retrieval-Augmented Generation (RAG) System for Document Analysis** — *Python, FAISS, PyMuPDF, pdfplumber, CLIP, Llama 3, Groq API, Flask/React*: Developed an end-to-end system to process PDFs containing text and images. Implemented text and image embeddings, indexed in FAISS, and retrieved context-aware answers using LLMs (Groq API with Flan-T5 fallback).

Technical Skills

- **Languages:** Python, Java, SQL, JavaScript, C++
- **Web & Frameworks:** React, Spring Boot, Node.js, Express.js, Flask
- **AI & Data Science:** TensorFlow, PyTorch, NumPy, Pandas, Matplotlib
- **Databases:** MySQL, Oracle, MongoDB