

AI Full-Stack Developer

PROFILE

Computer Science student at IAC specializing in AI/ML with hands-on experience building end-to-end intelligent systems from fine-tuning LLMs and deploying computer vision pipelines to developing Blockchain DApps with Solidity. Proficient in Python, React.js, FastAPI, and C++, with a passion for applying AI, Web3, and automation to solve real-world problems.

TECHNICAL SKILLS

Languages:Python, JavaScript, C++, Solidity, SQL
AI / ML:Dlib, YOLOv8, OpenCV, Flan-T5, HuggingFace, Scikit-learn, Pandas, RNN, CNN
NLP / RAG:NLP pipelines, RAG, LangChain, Vector DBs, Embeddings, Transformers
Agentic AI:AI Agents, Agentic Workflows, AI Automation, n8n, Prompt Engineering
Full-Stack:React.js, TypeScript, FastAPI, Node.js, REST APIs, WebSocket
Blockchain:Solidity, Smart Contracts, DApps, Web3.js, Ethers.js
DevOps / DB:Docker, Nginx, Vercel, PostgreSQL, SQLite, Git

CERTIFICATIONS

AI & Machine Learning· NAVTTC
Python Essentials 1· Cisco Networking Academy
JavaScript Essentials 1· Cisco Networking Academy
Back-End Web Development· LinkedIn Learning
Problem Solving in C++ / Python· DSA Practice
Intro to SQL· Kaggle
Advanced SQL· Kaggle

PROJECTS

TechPhantom AI Campus Management System January 2026 – Present
Python · FastAPI · React.js · YOLOv8 · Dlib · Docker · WebSocket · JWT · LiveDemo

- Engineered a production-grade attendance system replacing manual roll-calls with real-time facial recognition using dlib 128D embeddings and YOLOv8 person detection.
- Architected a secure FastAPI backend with JWT Role-Based Access Control (RBAC) and a real-time WebSocket kiosk deployed via Docker and Vercel.

Smar tSummarize April 2026
AI Email Summarizer
Python · Flan-T5 · FastAPI · HuggingFace · ChromeExtension · GitHubPages · LiveDemo

- Fine-tuned a Google Flan-T5 model on the AESLC email dataset for abstractive summarization, reducing reading time by an estimated 70%.
- Deployed a FastAPI inference backend to Hugging Face Spaces and built a Chrome extension that injects a summarize button directly into Gmail's UI.

HAVI Enterprise RAG Chatbot February 2026 – April 2026
Python · LangChain · VectorDB · FastAPI · Streamlit · LiveDemo

- Architected a production-grade RAG chatbot with role-based access control, transitioning from a CSV prototype to a modular enterprise data ingestion pipeline.
- Designed a multi-tenant retrieval system with LangChain, vector embeddings, and a FastAPI backend for real-time AI query responses.

UniFi July 2025 – September 2025
Blockchain DApp
Solidity · JavaScript · Web3.js · Ethers.js · SmartContracts · LiveDemo

- Developed a decentralized application with Solidity smart contracts implementing secure on-chain logic and MetaMask wallet connectivity.
- Demonstrated expertise in Web3 development patterns including contract deployment, ABI integration, and frontend-to-chain interaction.

Automata Converter July 2025
Theory of Automata Educational Tool
JavaScript · HTML/CSS · FiniteAutomata · GitHubPages · LiveDemo

- Built an interactive web-based academic tool for CS students enabling visual NFA → DFA conversion and regular expression matching with no backend dependency.
- Designed an intuitive UI simplifying complex automata concepts as a supplementary learning resource for university Theory of Automata courses.

Telecom Customer Churn Analysis 2025
Python · Pandas · Scikit-learn · Matplotlib · Seaborn · MachineLearning

- Conducted end-to-end churn prediction analysis applying EDA, feature engineering, and ML classifiers (Logistic Regression, Random Forest) to identify at-risk customers.
- Visualized key churn drivers and delivered actionable insights on contract type and service usage with model accuracy exceeding 80%.

EXPERIENCE

Student Life Ambassador June 2023 – August 2023
LahoreGarrisonUniversity(LGU) · Lahore,Punjab

- Mentored ~50 students joining the ByteCamp program by holding advisory meetings covering academics, professional development, and university life.
- Coordinated social programs promoting community building and helping new students acclimate to Lahore and campus culture.

WORKSHOPS & EVENTS

DevFest 2024 & 2025
Google Developer Group · Lahore

Build with AI Workshop
Arbisoft · 2026

Build with AI Workshop
FAST NUCES · 2026

TechTehwar
Lahore Garrison University

Blockchain Event
Institute for Art & Culture · Lahore

EDUCATION

Bachelor of Science in Computer Science Expected Graduation: May 2027
InstituteForArt andCulture(IAC) · Lahore, Punjab
Concentration: Artificial Intelligence · ML · NLP · Web Applications