

SIKANDER MUKHTAR

Full Stack & Machine Learning Engineer

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EDUCATIONS

COMSATS University Islamabad | Lahore Campus

Sep 2022 - Jun 2026

Bachelor of Sciences in Computer Science

CGPA : 3.32

- Relevant Course: Object-Oriented Programming, Data Structures and Algorithms, Database Systems, Software Engineering Concepts, Design and Analysis of Algorithms, Computer Vision, Web Technologies

SKILLS

Programming Languages : Python, JavaScript, Golang, SQL

Frameworks & Libraries : FastAPI, CrewAI, LangChain, Next.js, React, Tailwind CSS

Databases : Relational, Non-Relational, Vector Databases

AI/ML : RAG, Machine Learning, Deep Learning, MCP, AI Evals, Agentic Patterns

Soft Skills : Problem Solving, Critical Thinking, Leadership

Tools & Platforms : Git, GitHub, Claude Code, ImageKit, Docker

WORK EXPERIENCES

Associate AI/ML Engineer

Dec 2025 - Apr 2026

Digimark Developers

On-site • Lahore

- **Architected** Retrieval-Augmented Generation (RAG) pipelines and integrated observability frameworks to monitor **system performance**, track token usage, and reduce response latency.
- **Designed and deployed** N8N automation workflows and voice agents using **VAPI**, connecting third-party APIs to streamline business processes, automate customer calls, and eliminate operational bottlenecks.
- **Collaborated with clients** to engineer effective workflows, ensuring alignment with project **goals**.
- Implemented Twilio and VAPI SDKs with **FastAPI** for integrated communication solutions.

Tech Stack : FastAPI, RAG, N8N, LangChain, LangSmith

AI/ML Intern | Internship

Jul 2025 - Dec 2025

Digimark Developers

On-site • Lahore

- **Trained** and evaluated **classification models** for **sentiment analysis** and **computer vision**, achieving improved predictive accuracy.
- **Developed** backend systems using **FastAPI** and large language models (LLMs).

Tech Stack : Python, FastAPI, Scikit-learn, PyTorch

PROJECTS

GradeWave | AI-Powered Academic Assistance Platform | 🐙 Github

Final Year Project

- Developed a full-stack academic assistance platform using **Python, FastAPI, React, SQLAlchemy, and REST APIs** to improve classroom management and enhance student learning workflows.
- Implemented AI-assisted grading, plagiarism detection, document processing, and Google Classroom integration, utilizing background task processing with **Celery and Redis**.
- Designed responsive web and mobile interfaces for teachers and students using **React, Expo React Native, Axios, and React Query**.
- Established an evaluation benchmark for **Urdu HTR** and performed a comparative analysis on VLMs.

Tech Stack : FastAPI, Retrieval-Augmented Generation, React, Expo React Native

PROJECTS

Bookstore API | Github Live API Docs

- **Developed** a **Bookstore API** to manage inventory with **search**, **authentication**, and **file upload** functionalities. Utilized ImageKit for storing book covers and user profile images.
- **Engineered** data-processing features for handling CSV uploads, enabling authenticated users to bulk-insert book records and streamline database entry workflows.

Tech Stack : FastAPI, NeonDB, Alembic, ImageKit

Blog platform API | Github Live API Docs

- **Developed** a **scalable RESTful API** with JWT authentication and role-based access control, enhancing security for backend services and ensuring reliable user authorization across the platform.
- **Implemented PostgreSQL for robust data management** and employed Alembic for schema versioning, optimizing database workflows and facilitating seamless, error-free data migrations.

Tech Stack : FastAPI, NeonDB, Alembic

Social Network App Database

- **Designed and implemented a comprehensive database schema** for a social network application, enabling features such as user profiles, friendships, posts, likes, comments, groups, notifications, and messaging.
- **Developed over 15 relational database tables using SQL**, ensuring effective normalization and management of one-to-one, one-to-many, and many-to-many relationships, along with writing procedures and reports for querying.

Tech Stack : MySQL, Python

CERTIFICATIONS

Complete Intro to Databases, v2
Master.dev

EXTRACURRICULAR ACTIVITIES

Devathon by Devsinc <i>Web Development Competition</i>	Sept 2024
Softec'25 <i>Web Hackathon Participant</i>	April 2025