Sahil Kumar

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Education

BS - Computer Science	IBA, Karachi	2021 – 2025

Relevant Coursework: *Introduction to Programming, Object-Oriented Programming, Data Structures & Algorithms, Database Systems, Neural Networks & Deep Learning, Introduction to Machine Learning, Software Engineering*

Work Experience

Saviours, Software Development Intern   **July 2025 – August 2025**

- Designed and deployed **RESTful APIs** for **CRUD operations** ensuring smooth frontend–backend integration.
- Built **backend automation** tools in Python for test data generation and workflow optimization.
- Developed **AI-powered Q&A chatbot** using **RAG** pipeline (**Mistral LLM, OCR**).
- Used **Git** for version control and collaborative development.

Academic Projects

Stock Price Forecaster – Final Year Project (with Folio3)
Technologies: Python, LSTM, NLP, RESTful APIs, JavaScript, Dashboards

- Developed a full-stack web application to predict stock prices using **LSTM** and **NLP models**.
- Designed interactive dashboards to visualize real-time forecasts, trends, and sentiment analysis.
- Integrated **RESTful APIs** to ensure seamless real-time data flow for stock price predictions.
- Focused on performance optimization and testing of predictive models.

Student Learning Management System – Software Engineering
Technologies: SRS, UML, Figma

- Created a detailed **Software Requirements Specification** (SRS) and **functional specification document**.
- Designed **UML diagrams** to model user workflows and system architecture.
- Used **Figma to prototype** the interface and validate design choices through peer review

Blood Bank Management System – Database System
Technologies: MySQL, Oracle Database, Backend Automation, Full-Stack Development

- Developed a full-stack system to manage **donor** and **hospital** data for blood bank management.
- Designed and optimized relational database schemas using **MySQL** and **Oracle Database** for efficient data reporting and tracking.
- Automated backend processes to improve data reliability and inventory management.
- Followed **object-oriented programming principles** to design reusable backend modules.

Certifications

- Associate Python Developer – DataCamp (Expected Aug 2025)
- Associate Data Engineer in SQL – DataCamp

Skills

- **Programming:** Python (Pandas, NumPy, TensorFlow), SQL
- **Machine Learning:** XGBoost, NLP, LSTM, Model Evaluation
- **Databases:** MySQL, Oracle Database
- **Web Scraping & Automation:** BeautifulSoup, Playwright, Requests
- **Web Frameworks & Deployment:** Flask, RESTful APIs
- **Data Visualization:** Power BI, Matplotlib
- **Tools & Collaboration:** Git/GitHub, Jupyter Notebook

Extra - Curricular Activities

IBA Go Green Society, Director Creatives   **Sep 2022 – May 2023**

- Led creative work and coordinated eco-campaigns, including **60+ tree** plantation events.

Youth Impact, Campus Ambassador   **Jan 2022 – Dec 2022**

- Promoted student engagement through outreach and development initiatives.