

Soumen Kumar

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Education

Indian Institute of Technology, Jodhpur

Oct. 2022 – May 2026

BTech in Computer Science and Electrical Engineering **CGPA - 9.01** (Till 6th Semester)

Jodhpur, Rajasthan

Experience

InfoEdge (naukri.com)

May 2025 – July 2025

Data Engineer Intern

Noida, India

- Worked with the **Content Recommendation Team** for the **Minis** section of the Naukri app (web and mobile) to revamp the recommendation system using **Bayesian statistics** and **ranking algorithms**, targeting a 20–30% increase in personalization efficiency.
- Created an **interactive analytics dashboard** consuming **user interaction data** from **DataLake** and **Kafka**, providing real-time insights and comparative metrics between the legacy Minis feed and the **Unified feed** (beta-tested by 5% of total userbase).

CybraneX

December 2024 – May 2025

Quantum Developer Intern

Remote

- Engineered quantum circuits for **hardware optimization** using **Qiskit** within the **IBM Quantum Environment**, simulating multiple quantum scenarios to improve gate fidelity and reduce execution time by up to 15%.
- Implemented **Quantum Machine Learning (QML)** workflows using **CUDA-Q**, boosting simulation performance and applying quantum optimization to real-world combinatorial problems like job scheduling and logistics.

Projects

Cancer Diagnostic App 📱 | Project under (IIT'J-AIIMS'J)

October 2024 – January 2025

- Created a mobile diagnostic tool for NSCLC patients using **Kotlin** and **XML**, integrating **NCCN guidelines** for real-time, personalized cancer diagnosis and treatment planning.
- Integrated **Firestore Authentication**, **Firestore DB**, and **Firestore Storage** to handle sensitive medical data securely, with a scalable architecture supporting future expansion to 5+ cancer types.

MedSync - Pharmacy Management Platform 📱 | Course Project

September 2024 – November 2024

- Built a full-stack system linking 500+ users to IITJ PHC Pharmacy for live medicine browsing, order tracking, and real-time notifications using **React**, **Firestore**, and **Google Cloud**.
- Launched a feature-rich admin panel with stock alerts, UPI payment support, and user analytics, improving operational turnaround time by 30% and enabling seamless communication with customers.

People Entry/Exit Detector 📱 | Self Project

June 2024 – August 2024

- Designed a vision-based entry/exit monitoring system for commercial spaces using **OpenCV**, **MobileNetSSD**, and **CNN**, achieving 95% accuracy and processing 500+ people/hour.
- Improved processing speed by 25% through multithreading, ensuring reliable real-time detection in environments with dense footfall such as hostel mess.

Technical Skills

Languages: C/C++, Python, Shell Scripting, R, HTML/CSS, JavaScript, SQL, Kotlin, XML

Developer Tools: MATLAB, Firebase, Android Studio, WinAPI, PostgreSQL, Oracle DB, Datalake, Elasticsearch, Kafka

Technologies/Frameworks: Linux, Git, Google Cloud, React.js, SpringBoot*, Scikit-Learn, OpenCV, Pandas

Relevant Coursework

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|-----------------------|--------------------------|---------------------|---------------------------|
| • Data Structures | • Database Management | • Operating Systems | • Computer Networks |
| • Machine Learning | • CyberSecurity | • Cloud Computing | • Intro to CS and OOPS |
| • Algorithms Analysis | • Probability Statistics | • Cryptography | • Engineering Maths(I/II) |

Achievements

- Department Rank 3 in B.Tech CS+EE
- Got 3rd Prize(Project Demonstration) in Industry Day-2024@IITJ.
- Part of IITJ Team in ISRO-URC 24
- Expert@CodeForces(Rating-1862)

Positions of Responsibility

- Development Head @ Akshar IITJ
- Secretary @ ES Board of Departmental Societies
- Team Captain@ Quiz Society IITJ