SOUMEN KUMAR

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Education

Indian Institute of Technology, Jodhpur   Oct. 2022 – May 2026
BTech in Computer Science and Electrical Engineering **CGPA - 9.08** *(Till 5th Semester)*   *Jodhpur, Rajasthan*

Experience

InfoEdge (naukri.com)   **May2025 – Present**
Data Science Intern   *Noida, India*
- Collaborating with the **Content Recommendation Team** for the **Minis** subsection 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.
- Designing 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 – Present**
- 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 **Firebase Authentication**, **Firestore DB**, and **Firebase 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**, **Firebase**, 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 malls and retail stores.

Technical Skills

Languages: C/C++, Python, R, HTML/CSS, JavaScript, SQL, Kotlin, XML
Developer Tools: VS Code, PyCharm, MATLAB, Firebase, Android Studio,WinAPI,Google Cloud,Oracle DB
Technologies/Frameworks: Linux, Git, React.js, Scikit-Learn, OpenCV, Numpy, Pandas, Scipy, Matplotlib

Relevant Coursework

- Data Structures
- Machine Learning
- Algorithms Analysis
- Database Management
- CyberSecurity
- Probability Statistics
- Operating Systems
- Cloud Computing
- Cryptography
- Computer Networks
- Intro to CS and OOPS
- 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-1639)

Positions of Responsibility

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