SAURABH KUMAR SINGH

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EDUCATION

Birla Institute of Technology, Mesra　　　　　　　　　　**2021 – 2025**
B.Tech - Electronics and Communication Engineering　　　　*Ranchi, Jharkhand*

Chinmaya Vidyalaya, Bokaro　　　　　　　　　　　　**2016 – 2020**
Intermediate　　　　　　　　　　　　　　　　　　*Bokaro, Jharkhand*

SKILLS

- **Programming Languages:** C , C++ , Python , JavaScript , SQL .
- **Development Tools:** HTML , CSS , BootStrap , ExpressJS , NodeJS , ReactJS , REST Framework .
- **Databases & Deployment:** MySQL , MongoDB , Git , Microsoft Azure .
- **Soft Skills:** Assistive , Effective Planning , Adaptable and Leadership .

WORK EXPERIENCE

ZS ↗　　　　　　　　　　　　　　　　　　**JAN 2025 - Present**
Technology Intern　　　　　　　　　　　　　　　　　*Pune*

- **Enhanced Code Efficiency & Performance:** Refactored code and optimized performance, leading to a 25% reduction in page load times by auditing dependencies, improving pagination, and minimizing unnecessary data fetches.
- **Optimized Data Handling on Cloud:** Designed, developed, and fine-tuned SQL queries on Microsoft Azure to ensure efficient data storage, retrieval, and processing, aligning with client-specific requirements.
- **Continuous Improvement & Best Practices:** Implemented performance monitoring strategies, identified bottlenecks, and iterated on solutions to enhance application speed and maintainability.

NeuroNexus Innovations ↗　　　　　　　　　　　**OCT 2023 - NOV 2023**
Web Developer Intern　　　　　　　　　　　　　　　　*Remote*

- **Enhanced Web Development Skills:** Developed front-end applications using React, improving UI/UX by efficiently integrating APIs, managing state, and optimizing performance.
- **Strengthened Database Management:** Worked with SQL to handle data storage, optimize queries, and ensure smooth backend integration with the front-end.
- **Guided Learning & Team Collaboration:** Under my team manager's guidance, deepened my understanding of front-end best practices, component re-usability, and debugging, while collaborating in an agile environment.

Steel Authority Of India Ltd. ↗　　　　　　　　　**DEC 2022 - JAN 2023**
*Winter Trainee*　　　　　　　　　　　　　　　　*Bokaro Steel City*

- **Posting:** C&IT Dept.
- **Developed a Machine Learning Model for Automated Surveillance:** Built a Vehicle License Plate Recognition system using TensorFlow and PyTorch, leveraging EasyOCR for Optical Character Recognition (OCR) to detect and extract vehicle license plate numbers.
- **Optimized Object Detection for Real-Time Performance:** Trained an object detection model using the Kaggle dataset, improving accuracy and efficiency upto 25% by implementing YOLO and Faster R-CNN architectures for license plate localization.

PROJECTS

Scholar Net ↗ | Node.js, Express.js, MongoDB, React.js, Chakra UI, API's, Multer.

- Designed a web app with 3,000+ lines of clean code, enabling easy course exploration, enrollment, and management with membership for users and tutors, Razorpay integration, and an admin dashboard.
- Integrated essential features, including a secure authentication system (login, logout, registration), interactive charts, and a seamless payment system for buying and selling courses.

Co-Crypt ↗ | React.js, API's, Chakra UI, JavaScript, SCSS.

- Developed a real-time web app to track prices of 2,000+ cryptocurrencies, utilizing a public API for instant searches and up-to-date market trends.
- Integrated interactive charts with 5+ modes to analyze prices and gain insights into market volatility for better decision-making.