



# Saurav Kumar

Btech

Electronics and Communication Engineering

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🐙 GitHub 🌐 LinkedIn

🔗 LeetCode ⚙️ Codeforces

## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. in ECE	National Institute of Technology, Warangal	7.69	Dec'21-May'25
Senior Secondary	Sunbeam Academy Varanasi, Uttar Pradesh	95.8%	Jun'19-Apr'21
Secondary	Jawahar Navodaya Vidyalaya Buxar, Bihar	97.6%	Aug'14-Apr'19

## EXPERIENCE

- SAP Labs India, Bengaluru, Associate Developer Jul'25 – Present

- **GIRAF RunAnyWhere** – Cloud-native automation framework for executing end-to-end tests on HANA Cloud across multiple environments with AI-driven result analysis and dynamic dependency handling.
- Developed modular **React + UI5 Web Components** UI, improving test execution visibility and added Dashboard view, Report Portal for Test Analysys.
- Built **CAP backend** with secure **OData services**, enabling **600+ automated tests** across environments.
- Integrated **GenAI-based failure classification**, achieving **85% accuracy** in distinguishing true vs. environment-related issues.
- Architected and deployed a **multi-target, API-first cloud framework** on **SAP BTP**, registered in **SaaS Registry**, enabling scalability and reducing false failure runs by **30%**.

- SAP Labs India, Bengaluru, SDE Intern May'24 – Jul'24

- **Synthetic Media Detection** - Developed and deployed AI models to detect synthetic media across image, audio, and video modalities.
- Engineered **CNN models (EfficientNet-B4)** achieving **97.16%** image authenticity accuracy and **98.0%** audio deepfake detection using mel-spectrograms.
- Trained and validated models in **TensorFlow** using **140k+ synthetic/natural media samples**.
- Designed real-time detection feature using **OpenCV + WebRTC**, processing **1080p** feeds at **18 FPS**.
- Built a scalable **Flask backend** handling **300+ concurrent media analysis requests**, with an integrated **React UI** for real-time visualization.

## PERSONAL PROJECTS

### ChatWave

Apr'23–Jul'24

Full-Stack Real-Time Chat App

🐙 GitHub

- Built a **React.js + Node.js** chat platform handling **500+ concurrent users** with **<200ms** latency using **Socket.io**.
- Designed **event-driven architecture** with message compression and **40% bandwidth reduction** via binary protocol optimization.
- Secured sessions using **JWT auth**, token rotation, and **AES-256 encryption** for MongoDB Atlas storage.
- Created responsive **Chakra UI** interface with theme switching and accessibility compliance.
- Implemented group chat **CRUD**, role-based access, and **Redis caching** for participant lists.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** C++,Java, Python, JavaScript, SQL, HTML, CSS, CAP

**Developer Tools:** GitHub, Git, Visual Studio Code

**Frameworks/Library:** Node + Express JS, Spring Boot, SAP UI5, Reactjs

**Cloud/Databases:** MySQL, MongoDB, SAP Hana Cloud

**Coursework:** Data Structure and Algorithms, OOPs, Operating system, AI and ML, DBMS, Networking

## ACHIEVEMENTS

- 99.32%ile marks among 10lakh+ Students, JEE MAINS Mar'21 Mar'21
- NTSE Qualified, District Topper in Class 10 Jun'19