SUMIT GUPTA

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EDUCATION

Vellore Institute of Technology	Vellore, India
Bachelor of Technology in Computer Science and Engineering	*July 2026 | 9.17*
Annie Besant International School	Patna, India
XII (CBSE)	*May 2021 | 81.5%*
DAVSKVB School	Kathmandu, Nepal
X (CBSE)	*May 2019 | 93.2%*

PROJECTS

Hush   [Live Link]

React, Tailwind CSS, Node.js, Express, MongoDB, Socket.IO
- Architected a full-stack real-time messaging platform using React and Socket.IO, achieving sub-50ms message transmission during stress tests.
- Shaped an intuitive and distraction-free UI with Tailwind CSS, improving user interaction flow and readability by 30% across devices.
- Streamlined server-side event broadcasting and MongoDB data operations, reducing backend request overhead by 25% and ensuring reliable message persistence.

EventXpert   [Live Link]

React, Node.js, Express, MongoDB, Vite, Axios, JWT, Vercel, Render
- Developed and deployed a full-stack Event Management platform, enabling user registration, login, and event tracking for 50+ test users.
- Implemented secure JWT-based authentication with role-based access, protecting sensitive user and event data.
- Integrated backend APIs with React frontend, achieving less than 200ms average API response time.
- Seeded and managed 100+ events and categories in MongoDB Atlas, ensuring efficient data storage and retrieval.

SportSpark   [Live Link]

React, Node.js, Express, MongoDB, Vite, Axios, Vercel, Render
- Built and deployed a 100% responsive, production-grade website for sports products, achieving 90% Lighthouse performance score.
- Engineered secure user authentication using JWT, supporting user signup, login, and session-based cart access.
- Integrated 10+ RESTful APIs using Express and Axios to fetch/manage product and user data with robust error handling.

Structural Health Monitoring System   [GitHub Link]

Python, Pandas, Scikit-learn, TensorFlow, Matplotlib
- Developed an anomaly detection framework for pipeline sensor data using LSTM, Bi-LSTM, GRU, and Autoencoder models, achieving 92% accuracy.
- Implemented predictive analytics with Kaplan-Meier survival analysis and ARIMA forecasting, reaching 85% precision in time-to-failure prediction.
- Performed clustering and feature analysis, improving risk interpretability of pipeline damage severity by 30%.

TECHNICAL SKILLS

Languages: C++, C, JavaScript, Java, Python
Development: HTML, CSS, ReactJS, Node.js, Express.js, Next.js, REST APIs
Databases: MongoDB, MySQL, Redis
Key Academic Courses: Operating Systems, Computer Networks, Database Systems, Mathematics
Other Technical Skills: Data Structures & Algorithms, Object-Oriented Programming (OOPs), AWS Solutions and Architect
Tools: Git/GitHub, VS Code

ACHIEVEMENTS AND CERTIFICATIONS

Flipkart GRiD 7.0 (National Semifinalist)   [Certificate]
- Cleared 2 online assessments and secured National Semifinalist rank among 1.6 lakh participants in Flipkart GRiD 7.0.

C++ Programming (Udemy)   [Certificate]
- Completed a 19-hour Udemy course on C++, covering 100+ coding exercises and key concepts such as OOP and STL.

JavaScript with HTML & CSS (Udemy)   [Certificate]
- Finished a 17-hour Udemy course with 15+ projects, applying JavaScript for web pages along with HTML and CSS.

Merit Certificate   [Certificate]
- Awarded merit certificate twice for securing a CGPA of 9.17/10, placing in the top 5% of the class for consecutive semesters.

JEE Mains   [Scorecard]
- Secured 96.39 percentile in JEE Mains 2022, ranking among the top 4% of over 9 lakh candidates.