

# Shubham Gupta

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## SUMMARY

Computer Science undergraduate specializing in AI and Machine Learning with experience building secure, scalable systems across fintech, cloud, and web domains. Proven ability to lead teams, optimize system performance, and deliver measurable business and technical impact through data-driven engineering.

## EDUCATION

**Vellore Institute of Technology, Chennai**  
B.Tech in Computer Science & Engineering (AI & ML)  
CGPA: 8.3/10

Chennai, India  
2023 – 2027

**Maheshwari Public School, Jaipur**  
Class XII (CBSE) – 80%  
Class X (CBSE) – 89%

Jaipur, India  
2022 – 2023  
2020 – 2021

## EXPERIENCE

**Samsung PRISM** — *Team Lead – Research Intern* Remote  
Aug 2025 – Present  
• Led a 4-person team in developing a secure **XML-to-Jetpack Compose** migration tool, resulting in a 40% reduction in UI modernization efforts.  
• Engineered static analysis rules in **Kotlin** to preemptively detect insecure XML patterns (e.g., hardcoded secrets) prior to conversion.  
• Conducting bi-weekly code reviews and enforcing secure coding guidelines, resulting in zero critical vulnerabilities in the beta release.

**Bluestock Fintech** — *Software Development Intern* Remote  
May 2025 – July 2025  
• Re-architected the **PostgreSQL** database schema, optimizing indexing strategies which reduced API query latency by over **80%**.  
• Developed end-to-end IPO management workflows using **Django REST Framework** and **ReactJS**, serving 1,000+ active users.  
• Implemented Redis caching for real-time stock data fetching, improving dashboard load times by 200ms.

## PROJECTS

**BloodConnection** — *ReactJS, Python (Flask), Scikit-Learn, PostgreSQL* Live Demo  
• Developed an AI-powered donor platform using **KNN algorithms** to match donors with recipients based on blood type and location proximity.  
• Constructed time series models with **Pandas** and **NumPy** for inventory forecasting, processing 1M+ data points to enhance supply chain efficiency and responsiveness to market trends.  
• Implemented real-time emergency routing alerts using WebSocket and ExpressJS.

**OrderPlease** — *NextJS, TypeScript, AuthJS, Tailwind CSS* GitHub Link  
• Built a digital mess management system with wallet functionality, replacing manual ledger entries for 500+ students.  
• Secured user transactions using **AuthJS** (JWT) and enforced strict role-based access control (RBAC) for admins and students.

## TECHNICAL SKILLS

- **Languages:** Java, Python, Kotlin, C++, JavaScript (ES6+), SQL
- **AI/ML & Data Science:** TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Data Preprocessing
- **Web Technologies:** ReactJS, NextJS, Node.js, Express, HTML5, CSS3, Tailwind CSS, Redux Toolkit
- **Databases & Cloud:** PostgreSQL, MongoDB, Firebase, Google Cloud Platform (GCP)
- **Developer Tools:** Git/GitHub, Docker, Postman, Linux (Bash), Android Studio, VS Code

## ACHIEVEMENTS

- **Champion Milestone, College Rank 1** – Google Cloud Arcade 2024 (Demonstrated cloud proficiency).
- **World Rank 31, College Rank 1** – CodeChef Weekly Contest 159 (3-Star Coder); ranked in the top 10% on LeetCode contests through consistent application of algorithms and data structures.

## CODING PROFILES

LeetCode — CodeChef — Kaggle