

# Dhruv Kumar

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## Summary

Final-year Computer Science student with experience in product development, user validation, and MVP execution within an early-stage healthtech venture. Skilled in requirement structuring, unit economics, and coordinating engineering workflows to translate business problems into technical solutions. Strong foundation in DSA and full-stack development with hands-on exposure to AWS deployment and system integration. Analytical mindset focused on building scalable, user-centric products.

## Skills

**Product & Business:** Requirement Structuring, User Validation, MVP Planning, Unit Economics, Market Research, Stakeholder Communication, Cross-functional Coordination, Structured Problem-Solving

**Technical:** Data Structures & Algorithms, Java, Python, JavaScript, MERN Stack, MongoDB, MySQL, Real-time Systems (WebRTC, Socket.IO)

**Tools & Platforms:** Git, GitHub, AWS (EC2, S3), Vercel, VS Code, Deployment Workflows, Technical Documentation

## Education

**Vellore Institute of Technology** Expected April 2026

Bachelor of Technology in Computer Science & Engineering (CGPA: 7.7 / 10.0)

- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems

**Senior Secondary Education (CBSE)** July 2020 – 2021  
12th Grade (Percentage: 84%) Gaya, Bihar

## Experience

**Sahrang MedTech Private Limited** Jul 2025 – Dec 2025  
Product Development Lead Bengaluru, KA

- Defined core user problem (affordable rural uroflow diagnostics) and structured MVP roadmap aligning hardware and software integration.
- Designed a subscription-based revenue model achieving up to 75% cost reduction for patients and reducing projected device cost by approximately 50% compared to existing market alternatives.
- Conducted validation discussions with doctors and stakeholders to refine pricing, workflow design, and deployment strategy.
- Coordinated across hardware (ESP32-based system) and software teams to track milestones, manage documentation, and streamline execution timelines.
- Developed and deployed product website using React.js; managed hosting via Vercel to support outreach and early traction efforts.
- Supported prototype iterations through component research, schematic reviews, and structured technical documentation for testing cycles.

## Projects

**Video Conferencing Web Application**  Jan 2025 – Apr 2025

MERN Stack, Real-time Web Application

- Developed a full-stack real-time video conferencing platform using MERN stack, WebRTC, and Socket.IO enabling secure video, audio, and messaging for multi-user sessions.
- Implemented backend services for authentication, meeting management, and persistent session storage using REST APIs and MongoDB.
- Designed responsive UI using React.js and Tailwind CSS ensuring connection stability, secure access control, and cross-device compatibility.

**NeuroFlow AI**  Nov 2025 – Dec 2025

Real-time Conversational Web Interface

- Built a full-stack real-time conversational web application using React.js and REST APIs enabling dynamic message exchange.
- Implemented backend logic to manage conversation flow, store chat history, and support session-based retrieval.
- Integrated external AI APIs to generate contextual responses while maintaining scalable UI performance.

## Extracurricular

- **Tata Data Visualization (Forage) & DPIIT Recognition (Sahrang Medtech)** – Designed strategic data dashboards and contributed to product strategy in a healthtech venture recognized under DPIIT & Startup Karnataka.