

# ABHINAV CHAUDHARY

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## Education

**Vellore Institute of Technology, Bhopal**

**2022 – 2026**

*B.Tech in Computer Science & Engineering*

*CGPA: 7.73*

## Technical Skills

**Languages:** Java, JavaScript, HTML, CSS, Python

**Full Stack Development:** ReactJS, GSAP, TailwindCSS, Node.js, Express.js, MongoDB

**Tools & Cloud Technologies:** Figma, Git, Adobe Creative Suite, AWS (EC2, S3), Firebase, GitHub Actions

## Work Experience

**REIL (Rajasthan Electronics & Instrument Ltd.), Jaipur**

**Dec 2024 – Feb 2025**

*Web Development Intern*

- Engineered a mobile-based OTP calibration system for Milk Analyzers, streamlining calibration workflows and reducing manual errors.
- Collaborated with 3 senior engineers, reducing manual calibration time by 60%.

## Projects

**Disease Predictor and Mapping**

**Jan 2025**

*Python, Scikit-learn, MySQL, Leaflet.js, D3.js*

- Engineered a machine learning pipeline using Random Forest to predict 15+ diseases with over 92% accuracy, trained on a custom-built synthetic symptom-disease dataset.
- Implemented real-time disease case distribution mapping using Leaflet.js, enabling location-based risk visualization through interactive geographic maps.
- Utilized Scikit-learn to preprocess, train, and evaluate the model, optimizing for accuracy and recall in multi-class classification.
- Managed backend data workflows using MySQL and employed D3.js to visualize trends in disease patterns and symptom correlations.

**E-expense Tracker**

**Apr 2025**

*JavaScript, React.js, Node.js, MongoDB, D3.js, Chart.js*

- Developed a full-stack application to manage and visualize over Rs.10K in simulated transactions across personal and business budgets.
- Implemented dynamic expense categorization and financial reporting dashboards for actionable insights.
- Incorporated D3.js and Chart.js for engaging, real-time data visualizations to help users identify spending trends.
- Deployed the solution on a secure cloud platform for seamless, multi-device access and synchronization.

**InterviewPrep**

**Ongoing**

*Python, Flask, React.js, PostgreSQL, TensorFlow, Firebase, Vapi.ai*

- Created an AI-powered interview assistant that generates personalized question sets based on job descriptions and delivers real-time feedback.
- Harnessed TensorFlow to extract keywords and dynamically formulate questions tailored to specific roles.
- Integrated Firebase for user authentication, session storage, and progress monitoring across sessions.
- Constructed RESTful APIs with Flask and PostgreSQL to handle user data, interview history, and application logic.

## Extra Curriculars

**Badminton Coordinator, Annual Fest**

**2024**

*VIT Bhopal*

- Oversaw scheduling and coordination of 12+ teams and 30+ matches without conflicts.

**Tech Team Lead, Sports Fest**

**2023**

*VIT Bhopal*

- Directed technical operations for a 7-day event, ensuring smooth execution with zero failures.

**Silver Medalist, Air Rifle Shooting Nationals**

**2018**

*National Level*

- Won silver at the national-level Air Rifle Shooting competition in junior category.

## Trainings / Certifications

**The Complete 2024 Web Development Bootcamp**

**Feb 2024 – Dec 2024**

*Udemy (Angela Yu), Virtual*

Completed 200+ hours of intensive training and delivered 5+ full-stack projects using HTML, CSS, JS, Node.js, and React.