

ABHINAV CHAUDHARY

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Education

Vellore Institute of Technology, Bhopal

B.Tech in Computer Science & Engineering

2022 – 2026

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 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.