

# Vipul Kumar

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## EDUCATION

**Vellore Institute of Technology | Vellore**  
*B.Tech in Computer Science Engineering (Core) | B.Tech*

2023 – 2027  
GPA: 8.33/10.00

## RELEVANT COURSES

Data Structures and Algorithms | Design and Analysis of Algorithms | Structured and Object-Oriented | Web Programming | Computer Architecture and Organization | Digital Systems Design | Basic Electrical and Electronics Engineering | Calculus | Probability and Statistics | Machine Learning Specialization (Andrew Ng - Coursera)

## INTERNSHIPS

**Software Development Intern | Bluestock Fintech** June 2025 – July 2025

- Developed a full-stack IPO Web Application as part of a fintech internship, handling end-to-end development
- Finalized tech stack (React.js + Node.js/Django + PostgreSQL) and implemented modular, deployment-ready code
- Converted Figma UI/UX designs into responsive front-end components using React.js, ensuring a clean interface
- Designed and built RESTful APIs for IPO workflows; tested endpoints with Postman and documented responses
- Designed and optimized PostgreSQL schema, ensuring efficient query performance and scalability
- Maintained Git-based version control with proper branching, commits, and version tagging

## HACKATHONS

**Smart India Hackathon | 2024**

- Contributed an AI-powered women's safety project to detect potential threats using ML and computer vision
- Designed and optimized the model using Python, TensorFlow, and Roboflow, improving detection accuracy
- Worked with a team of six to develop and optimize the model for real-world threat detection
- Enhanced the model to achieve 92% accuracy, ensuring reliable threat detection in diverse environments

## PROJECTS

**Sales Prediction ML Model** | Tech Stack: Python, Scikit-Learn Nov 2025

- Developed and deployed a machine-learning model to predict product sales with feature engineering, EDA, model comparison (LR, RF, XGBoost), and hyperparameter tuning to achieve strong prediction accuracy

**Shoporla – E-Commerce Website** | Tech Stack: MERN stack Sept 2024

- Built a platform with browsing, cart, authentication, wishlist, and order tracking for a smooth shopping experience.

**Food Ordering Platform** | Tech Stack: MERN Stack Jun 2025

- Built a platform with browsing, orders, payments, real-time tracking, and authentication for smooth experience

**Portfolio Website** | Tech Stack: React, HTML, CSS, JavaScript Feb 2025

- Developed a responsive portfolio with animations, UI, optimized navigation, and a contact form for engagement

**Resume & Cover Letter Builder** Oct 2024

- Tech Stack: Serverless APIs, OpenAI GPT, Hugging Face, LangChain, Cloud Storage
- Built an AI-powered resume & cover letter builder with React, Python, databases, and PDF/DOCX export

**Real-Time LMS Website** | Tech Stack: MERN Stack Aug 2024

- Developed a real-time LMS with course management, tracking, access control, updates, and dashboards for usability

## TECHNICAL SKILLS

- **Frontend and Backend:** Next.js + Tailwind, HTML, CSS, JavaScript, Bootstrap, React, Node.js, Express.js, AngularJS.
- **Languages and Tools:** Python, Java, C++, C, MongoDB, PostgreSQL, Figma, Canvas, MySQL, APIs, Git, GitHub, Vercel.
- **Machine Learning & Data Science:** Scikit-Learn, Pandas, NumPy, TensorFlow, Matplotlib, Jupyter Notebook

## EXTRA CURRICULAR

- **AI/ML Club Member** – Actively contributed to AI/ML discussions, projects, and workshops on campus
- **Campus Ambassador** – Represented IIT Guwahati, IIT Kanpur, promoting events, increasing student engagement