

# Vipul Kumar

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## EDUCATION

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

**2023 – 2027**  
*GPA: 8.38/10.00*

## RELEVANT COURSES

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Data Structures and Algorithms | Web Programming | Computer Network | Structured and Object-Oriented Programming | Computer Architecture and Organization | DBMS | OS | Cloud Architecture | ML Specialization

## INTERNSHIPS

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**Software Development Intern | Bluestock Fintech**

**June 2025 – July 2025**

- Built a full-stack IPO web app using React.js, Node.js, and PostgreSQL.
- Created responsive UI from Figma and developed RESTful APIs, tested with Postman.
- Optimized PostgreSQL schema and managed Git version control for deployment.

**Fullstack Development Intern | Jurident**

**Dec 2025 – Jan 2026**

- Developed and maintained full-stack web features using modern frontend and backend technologies.
- Built and integrated RESTful APIs and optimized database queries for performance and reliability.
- Collaborated with the team using Git and Agile practices to deliver scalable, production-ready modules.

## HACKATHONS

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**Smart India Hackathon | 2024**

- Built an AI-based women's safety system using ML and computer vision for threat detection.
- Developed and optimized the model with Python, TensorFlow, and Roboflow, achieving around 90% accuracy.

## PROJECTS

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**ML-Based Fruit Quality Evaluation | Tech Stack: Python, ML, Computer Vision**

**Dec 2025**

- Built an ML-based fruit quality inspection system using computer vision to assess produce quality.

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

**Nov 2025**

- Developed a sales prediction ML model using feature engineering, EDA, and model tuning (LR, RF, XGBoost).

**Real-Time Vehicle Detection | Tech Stack: Python, OpenCV, YOLO**

**Aug 2025**

- Built a real-time vehicle detection system using YOLO, enabling accurate vehicle tracking from video streams.

**Shoporia – E-Commerce Website | Tech Stack: MERN stack**

**Mar 2025**

- Built a full-stack shopping platform supporting browsing, live tracking, orders, payments, and authentication.

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

**Feb 2025**

- Implemented a full-stack food ordering platform with payment integration, live tracking, and authentication.

**Resume & Cover Letter Builder | Tech Stack: OpenAI GPT, LangChain, Serverless**

**Oct 2024**

- Built an AI-powered resume & cover letter builder with React, Python, databases, and PDF/DOCX export

## TECHNICAL SKILLS

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

## EXTRA CURRICULAR

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- **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 engagement