

ADITYA KUMAR

📞 8292648696 ✉ adityakr00002@gmail.com

🌐 [linkedin.com/in/aditya-kumar](https://www.linkedin.com/in/aditya-kumar) 🐙 github.com/Adi51244

Career Objective

Final-year Computer Science undergraduate with solid fundamentals in AI/ML, web development, and software engineering. Eager to secure an internship or entry-level role to apply my technical skills, contribute to meaningful projects, and grow professionally within a dynamic and collaborative team environment.

Education

Bachelor of Technology in Computer Science and Engineering <i>Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology</i>	CGPA:7.5 – Present <i>Chennai, Tamil Nadu</i>
Higher Secondary Education (12th Grade) <i>MK College Bhutahi</i>	73% – 2021 <i>Sitamarhi, Bihar</i>
Secondary Education (10th Grade) <i>S.N.J High School, Sonbarsa</i>	84% – 2019 <i>Sitamarhi, Bihar</i>

Technical Skills

Languages: C,Java, Python,JavaScript
Web Development: React.js, Node.js, Flask, FastAPI, HTML, CSS
AI/ML & Generative AI: Scikit-learn, OpenCV, YOLOv8, Gemini API, LLaMA, GPT, Hugging Face Transformers, Prompt Engineering,Computer Vision
Data Analysis & Visualization: Pandas, NumPy, Matplotlib,NotebookLM
Dev Tools & Platforms: VS Code, Eclips, GitHub Copilot, GitHub, Cursor, Render, Firebase, Netlify, XAMPP, Figma

Projects

Self-Checkout System (VyapaarAI) YOLOv8, FastAPI, React – Developed an AI-based self-checkout system using YOLOv8 for object detection of retail products. – Integrated FastAPI backend and React frontend to display detected products and generate bills.	May 2025
E-commerce Fraud Detection System FastAPI, React, Machine Learning – Implemented a fraud detection model using supervised ML to classify transactions as legitimate or fraudulent. – Created a RESTful backend in FastAPI and a React-based dashboard for real-time fraud alerts.	Jan 2025
LeafIQ - AI-Powered Plant Disease Detection YOLOv8, Flask, Gemini AI, Python – Developed intelligent plant disease detection system using YOLOv8 computer vision, achieving 85-95% accuracy. – Integrated multi-API architecture (Gemini AI, Google Search, Wikipedia, PlantNet) with intelligent fallback system.	Oct 2024
Human Detection & Age/Gender Classification YOLOv8, PyTorch, OpenCV, Python – Built real-time computer vision system using YOLOv8 for human detection and ResNet-18 for demographic classification, achieving 93% gender accuracy across 9 age groups.	Sept 2024
Document Analysis and Query System Python, Gemini API, LlamaIndex – Built a PDF QA system using Gemini and Hugging Face embeddings for semantic document querying. – Applied NLP techniques and vector search to enable contextual answer generation.	July 2024
Chatbot using Gemini GenAI Python, Gemini API, LLMs – Developed an intelligent chatbot leveraging Google's Gemini LLM with support for multi-turn dialogue. – Integrated GenAI features for natural language responses and real-time user queries.	July 2024
Street Light Fault Detection System ESP32, IoT, Blynk – Implemented real-time motion-triggered lighting using the ESP-NOW protocol and IoT sensors.	Nov 2023

Leadership & Extracurricular

Event Organizer: HUSTLERS-24 <i>Vel Tech University</i> – Led the planning and execution of HUSTLERS-24 innovation event.	Feb 2024
Event Organizer: Problr Skill Showcase <i>Vel Tech University</i> – Organized coding and project showcase events to promote student innovation.	Mar 2024
Event Organizer: Prototype Contest <i>Vel Tech University</i> – Organized a prototype contest to showcase project ideas and promote innovation among student.	Aug 2024