

ADITYA KUMAR

8292648696

adityakr00002@gmail.com

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

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

CGPA:7.5 – Present

Chennai, Tamil Nadu

Higher Secondary Education (12th Grade)

MK College Bhutahi

73% – 2021

Sitamarhi, Bihar

Secondary Education (10th Grade)

S.N.J High School, Sonbarsa

84% – 2019

Sitamarhi, Bihar

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, Eclipse, GitHub Copilot, GitHub, Cursor, Render, Firebase, Netlify, XAMPP, Figma

Projects

Self-Checkout System (VyapaarAI) | *YOLOv8, FastAPI, React*

May 2025

- 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.

E-commerce Fraud Detection System | *FastAPI, React, Machine Learning*

Jan 2025

- 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.

LeafIQ - AI-Powered Plant Disease Detection | *YOLOv8, Flask, Gemini AI, Python*

Oct 2024

- 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.

Human Detection & Age/Gender Classification | *YOLOv8, PyTorch, OpenCV, Python*

Sept 2024

- 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.

Document Analysis and Query System | *Python, Gemini API, LlamaIndex*

July 2024

- 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.

Chatbot using Gemini GenAI | *Python, Gemini API, LLMs*

July 2024

- 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.

Street Light Fault Detection System | *ESP32, IoT, Blynk*

Nov 2023

- Implemented real-time motion-triggered lighting using the ESP-NOW protocol and IoT sensors.

Leadership & Extracurricular

Event Organizer: HUSTLERS-24

Feb 2024

Vel Tech University

- Led the planning and execution of HUSTLERS-24 innovation event.

Event Organizer: Probrlr Skill Showcase

Mar 2024

Vel Tech University

- Organized coding and project showcase events to promote student innovation.

Event Organizer: Prototype Contest

Aug 2024

Vel Tech University

- Organized a prototype contest to showcase project ideas and promote innovation among students.