

Vivek Kumar Arya

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PROJECTS

QuickKart – Real-time Quick Commerce Price Comparison Platform

[Github](#)

- Built a scalable price comparison platform integrating Blinkit, Zepto & D-Mart with automated **Playwright** scrapers (**95% accuracy** on 1K+ products).
- **Standardized** data schemas and **optimized** performance, reducing query time from **12s** → **4s** and achieving **200ms** cached API latency.
- **Tech Stack:** Python, Playwright, Flask, Tailwind CSS, SQLite

KeyBridge – Multi-LLM Platform

[Website](#)

- **Built** a **full-stack React** platform to compare outputs from **5+ LLM providers** (OpenAI, Anthropic, Gemini, xAI, OpenRouter) with **real-time streaming**, multimodal image support, and responsive UI.
- Designed dual API architecture (**Express.js + Vercel serverless**) with concurrent provider requests, automatic model resolution, and robust **error handling**; deployed production-ready app with **CI/CD** and API key validation.
- **Tech Stack:** React, Vite, Tailwind CSS, Node.js, Express.js, Vercel

Smart Waste Segregation System – MIT-WPU HACK25

- **Designed** an AI-powered smart bin using **Computer Vision (85% accuracy)** to auto-classify waste and integrated **IoT sensors** for real-time fill-level tracking and anomaly detection.
- Built a companion mobile app for live monitoring and analytics; delivered a functional prototype within **24 hours** during **MIT-WPU HACK25**.
- **Tech Stack:** Python, OpenCV, TensorFlow, IoT Sensors

EDUCATION

Master's (Computer Applications), MIT World Peace University, Pune
CGPA (Sem II): 7.07

2024 – present

Bachelor's (Computer Applications), Tula's Institute, Dehradun

2020 – 2023

CERTIFICATIONS

IBM Generative AI for Cyber Security Professionals Specialization
Microsoft Cyber Security Program
Celonis Process Mining

IBM / Coursera
Microsoft
Celonis

PUBLICATIONS

Arya, Vivek Kumar et al. (Aug. 2023). "A Review Article On Cyber Security". In: *International Journal of Scientific Research in Engineering and Management* 7.8, pp. 1–8. DOI: [10.55041/IJSREM25428](https://doi.org/10.55041/IJSREM25428).

SKILLS

Languages

Python, JavaScript, HTML, CSS

Frameworks & Web Development

Flask, FastAPI, Tailwind CSS, React, Vite

Scraping & Automation

Playwright, BeautifulSoup, Requests

Databases

SQL (SQLite, MySQL, PostgreSQL)

Backend Development

REST API design, Node.js & Express.js

Tools & Collaborations

Git/GitHub, CI/CD, Agile/Scrum