

Raj Porwal

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CS undergrad focused on building autonomous AI agents, robust backend systems, and hardware-integrated software. I build systems that run unsupervised and solve real-world problems. Veteran of 10+ hackathons who thrives on writing clean code and shipping functional projects under tight 36-hour deadlines.

EDUCATION

ABES Engineering College, Ghaziabad	Pursuing
B.Tech — Computer Science & Engineering	
Jyotri Academy, Bharthana, Etawah	Completed
12th Standard (pass with 84%)	
Jyotri Academy, Bharthana, Etawah	Completed
10th Standard (pass with 93%)	

SKILLS

AI / Agents	Agentic AI	LLM Integration	RAG Systems	Multi-step Reasoning	
Vision	YOLO	OpenCV	Computer Vision		
Backend	Python	Java	FAST API	System Design	DSA in JAVA
Full Stack	Frontend	Backend	Web Dev		
DevOps	CI/CD	GitHub Actions	Docker		
Hardware	ESP32	IoT	Embedded Systems		
Other	Razorpay API	Time Series	ML	Data Viz	

AGENTIC AI PROJECTS

Rahgir

an agent that plans the whole trip

An autonomous travelling agent that turns a plain request - a destination, dates, a budget - into a complete itinerary. It reasons over routes, stays and costs in multiple steps, calls live travel data, and revises the plan when something doesn't fit, instead of handing back a static list.

Agentic AI	LLM	Tool Calling	Multi-step Reasoning	Python
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Baithak

a room where the AI sits in

Designed a collaborative workspace integrating a multi-modal AI agent that dynamically tracks live meeting's conversations, maps decision threads, and autonomously surfaces real-time summaries and action items using RAG

Agentic AI

LLM

Full Stack

RAG

Chakravyuh AI

the scammer's worst nightmare

Most anti-scam tools flag and block. Chakravyuh AI goes further — an autonomous agent that **actively engages with scammers** in real conversation, wastes their time, learns their tactics, and protects real people. Built with multi-turn LLM reasoning and an adaptive response strategy.

Agentic AI

LLM

Python

Multi-turn Reasoning

NLP

CI/CD Pipeline Healer

DevOps that fixes itself

When a pipeline breaks, this agent diagnoses the failure, writes the fix, and opens a **GitHub Pull Request** automatically. No manual debugging, no Slack pings. Reached the semifinals at the RIFT Noida 24-hour Hackathon.

Live: ai-dev-autonomous-ci-cd-healing-age.vercel.app

Python

GitHub Actions

Agentic AI

DevOps

CampusAI

RAG for campus life

A retrieval-augmented AI assistant that answers questions using actual institutional documents — circulars, timetables, exam schedules. Grounded answers with source citations, not hallucinations.

RAG

LLM

Vector DB

Python

Home Automation with LLM + ESP32

your house, but it listens

Connected an LLM to an ESP32 microcontroller. Say what you want — the model parses intent and sends the right command to hardware over serial/MQTT.

ESP32

LLM

IoT

Python

Embedded

NAV Predictor

mutual fund intelligence for everyday investors

Predicts the next NAV (Net Asset Value) of mutual funds using time-series models and delivers a plain **Buy / Hold / Sell** recommendation. Interactive graphs show historical NAV alongside the predicted curve — users see the reasoning, not just the answer.

Python

Time Series

ML

Data Viz

Finance

YOLO Object Detection

real-time vision

Object detection pipeline using YOLOv8. Runs on live camera feeds. Built end-to-end from frame capture to bounding box output.

Python

YOLO

OpenCV

Deep Learning

Coaching Website

full-stack institute management

Notes upload, marks entry, student dashboards, teacher controls, role-based access. Built for and used by actual students at a coaching institute.

Full Stack

Web Dev

Diwali Donation Website

simple giving, done right

Clean donation platform with Razorpay integration. Mobile-friendly, handled real payments, shipped fast.

Web Dev

Razorpay

JavaScript

- Participated in **10+ national-level hackathons** across India
- Reached **semifinals** at RIFT Noida 24-hour Hackathon (CI/CD Pipeline Healer)
- Building production-level agentic AI systems as an undergraduate

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Location Ghaziabad, Uttar Pradesh