

Omkar Ramgirwar

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Skills

Languages & Frameworks: Python, JavaScript (ES6+), React.js, FastAPI, Node.js, SQL

Tools & Technologies: LangChain, LlamaIndex, LangGraph, Git, Docker, RESTful APIs, VSCode, Postman

Databases: PostgreSQL, MySQL, SQLite

Other: LLM Agents, WebSockets, API Integration, GitHub, Responsive Design, Framer Motion, Tailwind CSS, XTerm.js

Projects

DevNest AI Powered Code Editor | [Live Here](#)

- Engineered a web-based IDE supporting 3 programming languages (Python, JavaScript, C++) with real-time code execution, syntax validation, and terminal I/O.
- Integrated AI features including GPT-2-based code suggestions, voice-to-code (85%+ accuracy using Web Speech API & Groq), and image-to-code via Tesseract.js.
- Designed an AI chatbot that explained code, navigated files, and answered user queries—boosting user productivity and onboarding speed by ~30%.
- Implemented RESTful APIs and WebSockets for file operations and real-time collaboration; used Monaco Editor for a polished developer experience.

RecycleCraft – Sustainable Marketplace for Recycled Products | [Live Here](#)

- Tech stack: Next.js, Shadcn UI, Node.js
- Created a platform connecting recyclable waste suppliers with creative artisans
- Implemented dynamic filtering, product categorization, and responsive design

Chat with URL | [Live Here](#)

- Tech Stack - Streamlit, Gemini Pro API, FAISS, LangChain, Python.
- Developed an AI-driven chatbot that allows users to extract insights from web content by entering a URL
- Implemented Retrieval-Augmented Generation (RAG) for accurate and context-aware responses.
- Integrated Google LLM, Gemini Pro API, and FAISS vector storage for efficient information retrieval.

Experience

Smart India Hackathon | Team Lead

2024-2025

- Lead Team Infinite Aura to the grand finale, selected among the top 50 teams from 50,000+ applicants.
- Spearheaded the development of Eco-WaterFlow using MERN Stack to solve a real-world problem.
- Engaged with 5+ industry mentors to refine solutions, enhance scalability, and align with real-world applications.
- Applied expertise in web development / AI-ML / sustainability to create an impactful solution.

Education

GH Rasoni College of Engineering and Management, Nagpur

2023-2027

BTech in Data Science **8.32 GPA**