Krishna Narayan Singh

B.Tech Undergraduate (Computer Science) — VIT Bhopal University

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Education

Bachelor of Technology (B.Tech) — Computer Science (AI & ML)
Vellore Institute of Technology, Bhopal 2024 – 2028 (Expected)
CGPA: 9.07 / 10
Relevant Coursework: Data Structures, Object-Oriented Programming, DBMS, Operating Systems

Technical Skills

Programming Languages: Python, C++, JavaScript
Frontend: HTML, CSS, React.js, Next.js, Tailwind CSS
Backend: Django, Django REST Framework, Node.js, Express.js, REST APIs
Databases: MongoDB
Concepts: Data Structures, OOP, API Design, Debugging, Full-Stack Development

Projects

Chemical Equipment Parameter Visualizer (Hybrid Web + Desktop App) GitHub
Django, Django REST Framework, React.js, PyQt5, Pandas, Chart.js, Matplotlib

- Built a hybrid analytics application with a shared Django REST backend consumed by both web and desktop clients
- Implemented CSV ingestion and data analysis pipeline using Pandas to compute summary statistics and equipment distributions
- Developed interactive data visualizations using Chart.js (web) and Matplotlib (desktop) for comparative analysis
- Implemented PDF report generation containing computed metrics and charts, downloadable from both interfaces
- Maintained upload history for the last five datasets with persistent storage using SQLite
- Deployed backend on Render and web frontend on Netlify with basic authentication and production-ready configuration

Prakriti Pure — Full-Stack E-commerce Platform GitHub
React, Node.js, Express, MongoDB, Razorpay

- Designed and developed a production-ready e-commerce platform for a local business with real users
- Implemented secure Razorpay payment flow with backend signature verification and order state management
- Built responsive UI with mobile-first UX patterns including sticky CTAs and collapsible components
- Integrated automated order tracking using Google Sheets as a lightweight admin workflow
- Implemented transactional email notifications for payment success and failure

Retrieval-Augmented Generation (RAG) Chatbot GitHub
Python, Gemini API, Vector Databases

- Built a document-based question answering system using Retrieval-Augmented Generation (RAG)
- Implemented document chunking, embedding, and similarity search for contextual LLM responses
- Reduced hallucinations by grounding responses in retrieved document context

Achievements

- Winner — **LINPACK Hackathon** (College Level)
- Selected — **Smart India Hackathon (SIH)** (College Level)

Certifications

- Applied Machine Learning in Python — University of Michigan (Coursera)
- Generative AI Program — Outskill
- Programming with Generative AI — NPTEL
- AI Agents Intensive Course — Google (5-Day Program)