

OM KUMAR SINGH

☎ +91-7004918026 ✉ as120171.omkumar@gmail.com 🔗 linkedin.com/in/omsingh031 🐙 github.com/omsingh031

SUMMARY

Aspiring Machine Learning Engineer and Full Stack Developer with a passion for solving real-world problems using AI, web development, and scalable systems.

EDUCATION

VIT Bhopal University <i>B.Tech, CSE (AI & ML)</i>	2023 – 2027 <i>CGPA: 8.87</i>
Jamshedpur Public School <i>Class XII (CBSE)</i>	2020 – 2022 <i>90.4%</i>
Tarapore School <i>Class X (ICSE)</i>	2008 – 2020 <i>93.4%</i>

TECHNICAL SKILLS

- **Languages:** Python, Java, C++, C, SQL, JavaScript
- **Web:** HTML, CSS, React.js, Tailwind CSS, Node.js, Express.js
- **Frameworks/Tools:** TensorFlow, Keras, Flask, Streamlit, LangChain, ChromaDB, MongoDB, Vercel, Render, Postman, Git, JWT, bcrypt, Scikit-learn

PROJECTS

TravelWorld Tour Management Web App (Live 🔗) (GitHub 🔗)	2025
<ul style="list-style-type: none">– Stack: React.js, Tailwind CSS, Node.js, Express.js, MongoDB, JWT, Vercel, Render– Built and deployed a responsive MERN stack platform for booking and managing tour packages.– Integrated JWT authentication and REST APIs, reducing manual processing time by 40%.– Optimized frontend to reduce load time by 25% and enhance mobile responsiveness.	
Conversational RAG Chatbot with Gemini & ChromaDB (Live 🔗) (GitHub 🔗)	2025
<ul style="list-style-type: none">– Stack: Python, Streamlit, LangChain, ChromaDB, Google Gemini API– Implemented an intelligent RAG chatbot with memory and multi-document ingestion.– Improved semantic answer accuracy by 30% using Gemini embeddings and LangChain.– Achieved 92% relevance score in user testing using ChromaDB retrievers.	
AI-Based Plant Disease Detection System	2024
<ul style="list-style-type: none">– Stack: Python, TensorFlow, Keras, Flask, Streamlit, Pillow– Built a CNN achieving 91% accuracy for leaf image classification of plant diseases.– Integrated Flask API with Streamlit UI for real-time diagnosis and treatment advice.	

EXTRACURRICULAR

Google Crowdsource Community <i>Operations and Content Lead</i>	2024 – Present
Linpack Club, VIT Bhopal <i>Core Member</i>	2024 – Present

CERTIFICATIONS & HACKATHONS

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| • Java Foundations 1Z0-811 🔗 | • Postman Student Expert 🔗 | • Smart India Hackathon 2024 🔗 |
| • Ethnus MERN Full Stack 🔗 | • Python Essentials – VITYarthi 🔗 | • EY Techathon 4.0 🔗 |
| • NPTEL Cloud Computing – IIT KGP 🔗 | • AI/ML Fundamentals – VITYarthi 🔗 | • HP Power Lab Hackathon 🔗 |
| | | • HackOn Amazon 2025 🔗 |