

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 CGPA: 8.80
Jamshedpur Public School <i>Class XII (CBSE)</i>	2020 – 2022 90.4%
Tarapore School <i>Class X (ICSE)</i>	2008 – 2020 93.4%

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

CERTIFICATIONS & HACKATHONS

- | | | |
|---|--|--|
| • 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 ↗ |