

DEEPAK KUMAR MAHTO

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LinkedIn | Github

EDUCATION

VIT Bhopal University, Bhopal

B.Tech. Computer Science and Engineering
School of Computing Science and Engineering

Aug 2022 - Present

CGPA: 8.58/10

Oxford Public School, Ranchi

Class XII – CBSE

Jul 2022

Percentage: 84.4%

TECHNICAL SKILLS

Languages and Libraries

Java, Python, JavaScript, MySQL DB, Redis DB, Scikit, Streamlit

Cloud Platforms

AWS

Tools

Git, Github, Linux, Ollama Engine

PROJECTS

Image Analysis and Conversational AI System | Python, Streamlit, Ollama, LLaMA 3.2 Vision Sep 2025

- Developed an interactive image analysis system leveraging Ollama Engine with LLaMA 3.2 Vision, enabling users to query images through natural language prompts with contextual understanding.
- Designed and deployed a Streamlit-based web interface, providing real-time image upload, visualization, and conversational interaction.
- Enhanced system reliability by implementing state management, auto-recovery, and safe deletion workflows for conversation and image data.
- Achieved 90%+ accuracy in generating prompt-based results, validated across diverse images and question types.

KrishiConnect - Agricultural Information Portal | JavaScript, React.js, HTML/CSS, Vercel Apr 2025

- Developed and integrated a real-time weather forecasting feature using third-party weather APIs, enhancing the platform's utility for location-based decision making.
- Collaborated with a cross-functional team of 8 to deploy a full-stack React-based portal hosted on Vercel, ensuring seamless user experience and responsiveness.
- Facilitated access to real-time agricultural insights—covering government schemes, news, and articles—enhancing awareness among rural users.

Facial Analysis and Smart Prediction System | Python, Redis, Streamlit, InsightFace Models Oct 2023

- Engineered a real-time object detection system using InsightFace and OpenCV, achieving 98% accuracy in identifying objects across diverse datasets, while adhering to strict cybersecurity standards.
- Integrated InsightFace Buffalo_L model for face recognition and feature extraction, improving detection accuracy by 18% over baseline.
- Designed and deployed a Streamlit-based user interface, enabling real-time interaction with minimal latency.
- Tested and validated the model on a dataset of 1000+ images with varied lighting and backgrounds to ensure robustness.

EXPERIENCE

Null Student Chapter, VIT Bhopal

Feb 2024 – Mar 2025

Core Member, PR and Outreach Team | Cyber Security Awareness Club, Bhopal

- Orchestrated 3+ cybersecurity awareness events as an active PR Team Member.
- Coordinated promotional efforts, led outreach campaigns across social media and campus for club events that attracted over 100 participants per event; helping increase club visibility by 40% and a 30% rise in student membership within one semester.

CERTIFICATIONS

- AWS Academy Graduate – AWS Academy Cloud Foundation
- IBM DevOps Fundamentals

Mar 2025

Mar 2025