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📍 Nagpur, India

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Education

Indian Institute of Information Technology Nagpur, India

Aug 2023 – Present

B.Tech in Computer Science and Engineering (Specialization in Human Computer Interaction And Gaming Technology)

CGPA: 6.92

Coursework: Data Structures and Algorithms, Operating System, Computer Networks, Database Management Systems (DBMS), Machine Learning, Deep Learning

Professional Experience

NCAMEO Inc. (USA)

16 Jan 2026 – Present

Intern Engineer (Full-Time)

Developed and supported AI/ML & Deep Learning computer vision solutions, covering data preprocessing, model training, evaluation, and software integration.

Bluestock Fintech

1 Apr 2025 – 30 May 2025

Software Development Intern and Project Co-Lead (Part-Time)

- Co-led the development of a fintech web app for portfolio and transaction management.
- Worked on frontend and backend using HTML, CSS, JavaScript, Node.js, and Django.
- Delivered features in an agile team, ensuring performance and code quality.

Projects

Dog Re-Identification System with Breed Prediction

March 2026

- Developed an AI-based computer vision system for detection, classification, and re-identification of individual dogs across multiple images under varying real-world conditions.
- Designed a multi-stage deep learning pipeline integrating detection, feature extraction, and similarity-based matching to ensure consistent identity recognition.
- Engineered a hybrid feature fusion approach combining learned representations with complementary visual features to enhance robustness and reduce false matches.
- Optimized inference performance through efficient model optimization and parallel processing, achieving significant latency reduction.
- Enabled practical applications such as large-scale tracking, monitoring, and automated identification systems in real-world environments.

GVP Monitoring System (AI-Based Civic Platform)

Feb 2026

- Designed and developed an AI-powered system for Nagpur Municipal Corporation (NMC) to monitor and manage garbage-prone locations across the city in real time.
- Built a centralized platform integrating multi-channel citizen reporting (app, web, SMS, calls) for efficient issue tracking and resolution.
- Architected a scalable multi-role system (Admin, Officer, Field Worker) with role-based access for streamlined task assignment and workflow automation.
- Implemented interactive geospatial dashboards to visualize locations, track status, and analyze ward-level performance.
- Developed analytics and data-driven insights to identify waste accumulation patterns and optimize resource allocation.
- Improved operational efficiency by reducing response time, increasing cleaning compliance, and enabling data-driven decision-making aligned with national cleanliness initiatives.

Technical Skills

Programming Languages: C, C++, Python, HTML, CSS.

Tools: Git/GitHub, MySQL, Microsoft Excel, Tableau, Godot.

Libraries & Frameworks: Pandas, NumPy, Matplotlib, OpenCV(cv2), Streamlit.

Core Competencies: Data Structures and Algorithms, Operating System, Computer Networks, Database Management Systems (DBMS), Deep Learning, Natural Language Processing (NLP), Machine Learning, Generative AI (GenAI), Prompt Engineering, Data Visualization.