

Nakul Makode

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Education

Shri Ramdeobaba College of Engineering and Management, Nagpur

Nov 2022 – May 2026

B.Tech in Computer Science and Engineering

- **CGPA:** 9.3/10
- **Coursework:** Operating Systems, Database Management Systems, Computer Networks

Experience

Machine Learning Intern Infosys Springboard

Remote Oct 2024 – Dec 2024

- Engineered a real-time face recognition system using CNN and Transfer Learning, achieving around 90% precision.
- Designed and optimized a scalable SQLite3 database for efficient user record management, improving data retrieval speed by 60% through indexing and query optimization.

Projects

EasyAssign: Freelance Hub

github.com/EasyAssign 🔗

- Developed a secure freelancing platform (MERN stack), building RESTful APIs in Node.js/Express for user authentication and project listings.
- Designed MongoDB schemas to store user profiles and assignments, implemented client-server communication via WebSocket (Socket.io) to enable real-time collaboration.
- Implemented role-based access control to differentiate functionalities for clients and freelancers, improving platform security and usability.

RailNav: Smart Station Guide

github.com/RailNav 🔗

- Reduced station navigation time by 30% and achieved 95% route accuracy with a web-based interface.
- Addressed routing challenges by integrating Google Geocoding API and AR.js, delivering real-time directions via mobile camera overlay.
- Created an intuitive UI using HTML, CSS, and Leaflet.js to enhance user accessibility for real-time station guidance.

Derma-Scan AI: Skin Lesion Classification

github.com/DermaScanAI 🔗

- Built a hybrid CNN+NLP architecture to classify benign vs. malignant lesions with 91.55% precision.
- Processed and augmented over 12,000 dermatoscopic images from the ISIC dataset, enhancing model robustness.
- Trained a U-Net model for precise lesion segmentation (91% accuracy) and developed RESTful APIs in Flask to serve inference results to a React.js frontend.

Skills

Languages: C++, C, Java, Python, JavaScript

Frameworks & Tools: React.js, Node.js (Express), MongoDB, Postman, Figma, Git, Linux

Databases: SQLite3, MongoDB, PostgreSQL

Machine Learning Tools: TensorFlow, Keras, PyTorch

Achievements

- Secured a finalist position as one of the top 20 teams out of 600+ at CyberHack 2025 (statewide hackathon organized by the Maharashtra Government) by delivering innovative AI-driven solutions.
- Achieved a global rank of 118 on CodeChef by solving complex algorithmic challenges and maintaining a 400+ days coding streak.
- Ranked among the top 105 groups in the GDG On-Campus Solution Challenge, out of 63,000+ registrations .