



Harsh Shinde

Karmaveer Dadasaheb Kannamwar Engineering College, Nagpur



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EDUCATION

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech ETC	KDK College of Engineering, Nagpur	RTMNU	7.30	2021-2025
Senior Secondary	Shahu's Garden Convent, Nagpur	MSBSHSE	76.00%	2021
Matriculation	Shahu's Garden Convent, Nagpur	MSBSHSE	67.80%	2019

EXPERIENCE

- MRSAC, Research Intern** | Geospatial Technologies, Remote Sensing, Spatial Data Analysis, EO, GIS *Jan 2025 to Present*
 - Analyzing land use/land cover change, urban heat islands, and land surface temperature (LST) variations in the Nagpur region using remote sensing data.
 - Creating building footprint datasets for regions in Turkey through high-resolution satellite imagery and GIS techniques.
 - Detecting farm boundaries using EO data and spatial analysis to support agricultural land mapping and monitoring.

PROJECTS

- PDF Chatbot with LangChain and Streamlit** | Python, Streamlit, Docker *Github Live**
 - The application processes and vectorizes PDF content using Hugging Face embeddings, allowing users to ask questions and retrieve relevant information from the uploaded documents.
 - Features include chunked text splitting, document embedding, similarity search, and text generation for effective question answering, all deployed using Docker for easy accessibility.
- Land Cover Classification using Remote Sensing Data** | Python, GeoPandas, scikit-learn *Github Live**
 - Developed a land cover classification system using Random Forest on Landsat and PALSAR images, applying SLIC-based segmentation to improve accuracy. Exported results in GeoTIFF and shapefile formats for GIS analysis and integration.

TECHNICAL SKILLS

- Programming Languages:** C/C++, Python, R, Bash
- Database/Cache:** PostgreSQL, MongoDB, Redis
- Web Technology:** NodeJS, Flask, ReactJS, GraphQL, HTML, CSS
- Tools/Platforms:** Linux, Docker, ArcGIS, QGIS, Earth Engine API, Nginx, GCP, Git, GitHub
- Machine Learning/Deep Learning:** TensorFlow, PyTorch, scikit-learn, Keras, GeoPandas, GDAL, Rasterio, NumPy, OpenCV

COURSEWORK

- Database Management Systems
- Machine Learning
- Object-Oriented Programming
- Operating System
- Computer Networks
- Cloud Computing

POSITIONS OF RESPONSIBILITY

- Google Cloud Arcade Facilitator** | Mentor *July 2024 to Present*
 - Mentored and guided 600+ students in Google Cloud Platform (GCP), covering Kubernetes, Cloud Functions, Apigee, Firebase, and core services like compute, storage, and networking.
 - Provided hands-on support with Kubernetes cluster management, serverless Cloud Functions, API management via Apigee, and Firebase integration for scalable applications.
 - Organized events, solved technical doubts, and maintained student engagement through continuous support and motivation.

ACHIEVEMENTS

- Geo Spatial AI Challenge Second Runner-Up**
 - Our team secured 3rd place for the *Tree/Orchard Detection and Counting from High-Resolution Satellite Images* project in the Geo Spatial AI Challenge.
- MLH Hackathon Runner-Up**
 - A competition by MLH where we presented an Inventory Management System, built with Angular, Spring Boot, and MySQL.
- SaWiT.AI Challenge**
 - An competition focused on build a simple Retrieval-Augmented Generation (RAG) application, with 5000,000+ participants.
- CodeChef(max)** • **Codeforces(max)** • **Leetcode: 60+ questions solved**

INTERESTS/HOBBIES

- Novels, Audiobooks, Drawing

STRENGTHS

- Teamwork, Management, Friendly, Adaptability