

GOPAL MAURYA

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Education

National Institute of Technology, Rourkela

Bachelor of Technology in Biomedical Engineering (CGPA - 8.03)

Nov 2022 – May 2026

Rourkela, Odisha

Parvati KIC, Sonaura S.K.N

UP Board, Science (PCM) (Percentage - 85.6%)

Apr 2020 – Jul 2021

Sonaura, Uttar Pradesh

Parvati KIC, Sonaura S.K.N

UP Board (Percentage - 94.83%)

Apr 2018 – Jul 2019

Sonaura, Uttar Pradesh

Relevant Coursework (Certificates)

- Machine Learning
- Deep Learning
- Probability & Statistics
- Data Visualization
- SQL for Business Insights
- Natural Language Processing

Experience

Research Intern

Glowvista Instruments, NIT Rourkela

May 2025 – Jun 2025

Report | Certificate

- Developed a dual-branch CNN using **EfficientNetB3** and **ResNet50V2** with **channel, spatial, and non-local attention** for diabetic retinopathy classification.
- Achieved **87.84%** (APTOS 2019) and **83.4%** (DDR) accuracy on 5-class severity prediction; reduced manual preprocessing by **60%**.
- Automated image enhancement pipeline including cropping, resizing, and contrast normalization.

Projects

YouTube Comment Sentiment Analyzer – Chrome Extension

Python, LightGBM, Flask, MLflow, AWS EC2/S3, DVC, Docker

May 2025 – Jul 2025

Prototype | GitHub

- Built a production-ready **Chrome extension** to classify YouTube comments in real time using a **Flask API** and **LightGBM model (94% train, 87% test accuracy)**.
- Deployed an end-to-end ML pipeline with **MLflow**, **Docker**, and **AWS EC2/S3**; implemented **CI/CD** via **GitHub Actions** for automated testing and deployment.
- Used **DVC**, **Cookiecutter**, and **TF-IDF** to manage versioned data, modular codebase, and scalable preprocessing for sentiment analysis.

AI-Powered Real Estate Insights Platform

Python, Pandas, NumPy, Scikit-learn, Flask, Docker, Cosine Similarity

Jun 2025 – Jul 2025

Live Site | GitHub

- Trained a **Random Forest Regressor** on Gurgaon housing data with advanced feature engineering (One-hot, Ordinal encoding), achieving **$R^2 = 0.90$** , **MAE = 0.43**.
- Integrated a **Cosine Similarity**-based recommendation engine to suggest similar properties based on user input and features.
- Built and deployed a modular **Flask web app** with analytics (plots, word clouds) using **Docker** on **Render**.

Technical Skills

- **Languages:** Python, C++, MATLAB, HTML/CSS, SQL
- **Data Science Libraries:** NumPy, Pandas, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn, MLflow
- **Tools & Platforms:** MySQL, Power BI, MS Excel, Kaggle, Jupyter
- **Web & Deployment:** Flask, Docker, Render, AWS, Git, GitHub, DVC

Extracurricular Activities

- **NCC, Corporal:** Completed C-Certificate with distinction; managed logistics for 3+ national camps (CATC, EBSB, Firing).
- **Rotaract Club, Design & Outreach Team:** Led outreach for 5+ social campaigns, positively impacting 500+ individuals.