



Education

| | |
|--|--------------------|
| MPSTME, NMIMS University | 2022 - 2026 |
| Bachelor of Technology in Computer Engineering CGPA: 3.34/4.0 | |
| Vidyanidhi Jr College of Science | 2020 - 2022 |
| HSC: 67 | |
| Ryan International School | 2020 |
| ICSE: 85 | |

Projects

-Capstone Project - CardioAssist AI Multi-Modal Decision Support System | Ongoing
Developing a multi-task machine learning model to assist in critical care decision-making. The system vectorizes patient vitals and clinical notes into separate feature spaces, combines them into a unified representation, and trains predictive models for patient outcome forecasting. Applied SHAP for explainability to ensure model transparency and aid healthcare professionals in understanding feature importance.

-Smart Personal Finance Manager | Python, Flask, scikit-learn, Postman 2025
Uses Machine Learning to analyze expenses, compare them with budgets, and provide personalized suggestions for better financial planning. Built a Flask backend API, tested with Postman for file uploads and route validation. Processed CSV inputs of expenses and budgets using Pandas & Scikit-Learn, outputting structured JSON summaries. The app performs category-wise budget analysis, generates overall spending summaries, and offers actionable suggestions for optimization.

-Consistency Tracker | Python, FastAPI, Streamlit, scikit-learn, XGBoost, SHAP 2025
Built a full-stack web application to track daily habits and predict productivity scores using Machine Learning. Developed a FastAPI backend for model inference and analytics, and a Streamlit frontend for interactive dashboards and calendar visualizations. Processed habit-tracking datasets (CSV/Excel) with Pandas & NumPy, generating productivity predictions, weekly trends, streak analysis, and SHAP-based feature explanations. Deployed on Docker + Render, enabling real-time file uploads, insights, and personalized consistency tracking.

Internships

L&T Precision Engineering Systems (May 25 - July 25)

Junction Box Component Detection System | Computer Vision, Python, Streamlit

Developed a computer vision pipeline to automate detection, classification, and counting of internal components in industrial junction boxes. Replaced manual inspection by implementing template matching, contour detection, Non-Maximum Suppression, and IoU filtering to identify 40–50 visually similar parts per box. Built a Streamlit-based UI to display bounding boxes, part counts, and dynamic summary tables. Achieved near-100% accuracy under ideal conditions, significantly reducing inspection time and enhancing traceability and operational efficiency.

Certifications

- Databases and SQL for Data Science with Python (IBM) - Coursera (2025)
- Advanced Data Visualization with Tableau - Coursera (2025)
- Data Visualization with Tableau - Coursera (2025)
- Machine Learning Specialization (IBM) - Coursera (2024)

CORE SKILLS

- Programming & Data Handling:** Python, SQL, Pandas, NumPy, Data Cleaning & Transformation, CSV, Excel, API Development & Integration, Git/GitHub, Modular Design, Technical Documentation
- Data Science & Analytics:** Supervised & Unsupervised Learning, Model Development & Evaluation, Statistical Analysis, Data Visualization, scikit-learn, XGBoost, SHAP, Tableau, Computer Vision (Template Matching, Contour Detection, NMS, IoU), Big Data Basics (Hadoop)
- Deployment & Tools:** FastAPI, Flask, Streamlit, Docker, Render, Postman, Jupyter Notebook, VS Code
- Soft Skills:** Leadership & Team Management, Strategic Thinking, Communication & Collaboration, Adaptability, Time Management, Problem Solving

Positions of Responsibility

- Secretary, Analytika - Data Science Club, MPSTME, Mumbai** 2024-25
Led a team of 70+ members, looking after the operations, organizing events.
- Rescue Volunteer, RESQ Charitable Trust (Animal Rescue Centre), Pune** 2023
Assisted in emergency rescue operations, animal care, and rehabilitation.