Manthan Furade

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Education

MIT College of Railway Engineering and Research Oct. 2022 – Jun. 2025
B.Tech, Computer Science and Engineering Barshi, Maharashtra
CGPA: 8.5

Karmayogi Polytechnic College Aug. 2020 – Sep. 2022
Diploma, Computer Technology Pandharpur, Maharashtra
Percentage: 77.60%

Internship

Data Science Intern – Anyatam-Adhyayan Education Services PVT.LTD Jan. 2025 - Jul. 2025

- Completed a Data Science internship, gaining hands-on experience in Python, SQL, and key Python libraries (Pandas, NumPy, Matplotlib).
- Learned core concepts of Machine Learning, Data Analysis, and Statistical Modeling.
- Developed an ML-based Diabetes Prediction model using Linear Regression for health risk assessment.
- Worked on live projects and case studies, applying real-world datasets to solve business problems and optimize model performance.
- **Skills:** Python (Pandas, NumPy, Matplotlib), SQL, Machine Learning, Jupyter.

Projects

DivineAsanas – GEN AI-Powered Yoga Companion (https://yog-asana.onrender.com/)

- Developed an AI-driven yoga asana learning platform leveraging Google Gemini AI to generate detailed, structured information on 84+ yoga poses including steps, benefits, risks, and ideal practice guidelines.
- Built a full-stack web application using Python, Flask, and session management with a responsive front-end (HTML5, CSS3, JavaScript) for seamless user interaction.
- Added dynamic gallery for asana images and instant AI-generated guidance for selected poses, enabling a personalized yoga learning experience.
- Tools used: Python, Flask, HTML5, CSS3, JavaScript, Google Gemini AI.

Automatic Colorization of Grayscale Images (https://finalproject-2-7rm6.onrender.com/)

- Automatic Image Colorization Web App – Developed a Flask-based web application that uses OpenCV DNN and a Caffe pre-trained model to automatically colorize grayscale images.
- Built an image upload and processing pipeline that applies LAB color space transformation and generates multiple colorized variations for better visual results.
- Implemented secure user authentication with MongoDB for account management and history tracking.
- Tools used: Python, Flask, OpenCV, Caffe, MongoDB, HTML, CSS, JavaScript.

House Price Prediction (https://house-price-prediction-zh0a.onrender.com)

- Developed a machine learning web application using Flask to predict house prices based on features such as property size, number of bedrooms, and age of the house.
- Implemented a regression model trained on a custom housing dataset, achieving accurate predictions for housing values.
- Integrated NumPy and Pandas for efficient data preprocessing, feature engineering, and model training to enhance prediction reliability. Designed a responsive and intuitive HTML/CSS interface for user inputs and real-time display of predicted house prices.
- Deployed the application locally with Flask backend and Scikit-learn model, enabling seamless user interaction and fast predictions.
- Tools used: Python, Flask, Scikit-learn, Pandas, NumPy, HTML, CSS.

Skills

- **Programming Languages:** Python, SQL
- **Data Analysis & Visualization:** Pandas, Matplotlib
- **Machine Learning:** Scikit-Learn, Deep Learning (PyTorch), TensorFlow
- **Frameworks & Tools:** Flask, OpenCV
- **LLM & Generative AI:** Large Language Models (LLM), Gen AI Applications
- **Databases:** MySQL

Certifications

Fundamentals of AI and ML, AWS Training and Certification.
Data Science and Machine Learning Training, linkedin.