Harshil Kothiya

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Summary

Passionate about **data science**, **data analytics and visualization** with a strong interest in exploring their potential. Completed machine learning and gained foundational knowledge of neural networks and deep learning. Enthusiastic about applying analytical and visualization skills to real-world projects and continuously expanding my expertise.

Educational Background

Charotar University of Science and Technology	2022 – 2025
B. Tech. in Information Technology	
• GPA: 9.57	
Higher Secondary Education • Grade: 86.66% (PCM)	2021 – 2022
Secondary Education • Grade: 87.66%	2019 – 2020

Tool & Technologies

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

Core Subjects: Machine Learning, Data Analysis, DSA, DBMS, OOPS

Machine learning Libraries: Scikit-Learn, TensorFlow, PyTorch, Streamlit

Tools/Platforms: Power BI

Frontend Technology: HTML5, CSS3, React.js, Bootstrap

Backend Technology: Node.js, Express.js

Database And Testing Tools: MongoDB, Postman

Version control: Git, GitHub

Experience

Full-stack developer - Intern, Clumoss

May 2024 - June 2024

- Developed a Hotel Management Website and an E-commerce Platform using the MERN stack.
- Designed user-friendly interfaces for room booking, reservation management, and customer data handling in the hotel management system.
- Built an interactive online shopping platform with seamless navigation, product pages, and secure checkout.
- Worked closely with team members, ensuring smooth collaboration and effective project delivery.
- Strengthened skills in team communication, problem-solving, and full-stack development.

Projects

FarmSmart: Crop-Recommendation

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- **Designed and developed** a machine learning-based crop recommendation system, analyzing Nitrogen (N), Phosphorus (P), Potassium (K), pH, and humidity to suggest optimal crops.
- Integrated advanced models including Random Forest, SVM, and XGBoost to ensure high prediction accuracy, enhancing agricultural productivity and resource efficiency.
- **Built** an intuitive **Streamlit** web interface, allowing seamless user interaction and real-time crop recommendations based on input parameters.
- **Optimized** model performance through hyperparameter tuning and feature engineering, ensuring scalability and reliability across diverse environmental conditions.

Sports-Celebrity-Image-Classification

- **Developed** an image classification system leveraging Support Vector Classifier (SVC) to accurately identify sports celebrities from a diverse dataset
- **Preprocessed and augmented image data** to improve model generalization, handling variations in pose, lighting, and resolution.
- **Designed** and implemented a responsive web interface using JavaScript, enabling users to upload images and receive real-time classification results.

Data Visualization with Power Bi

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- Designed compelling and interactive data visualizations using Power BI to illustrate trends and patterns in crime and road accidents across India.
- **Developed** dynamic dashboards that provide comprehensive insights, enabling users to filter and drill down into region-specific data for deeper analysis

Bangalore-Home-Price-Prediction



- Conducted extensive data analysis to identify key factors influencing home prices, utilizing Python libraries like Pandas, Matplotlib, and Seaborn for visualization of trends and correlations.
- Built and fine-tuned machine learning models (Linear Regression, Decision Trees) to predict home prices, optimizing performance through feature engineering and hyperparameter tuning.
- **Developed** an interactive UI for the home price prediction model, enabling users to input data and receive real-time predictions.

Certifications

NPTEL

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- Completed the NPTEL exam in **Data Structures and Algorithms Using Java with** a **score of 80**%, earning a **Silver certificate with Elite honors**.
- Completed the NPTEL exam in **Database Management System** with a **score of 76**%, earning a **Silver certificate with Elite honors**.
- Earned the NPTEL certification in Operating System Fundamentals with Elite honors, scoring 67%.

The Postman API Fundamentals Student Expert Certificate and Badge.

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Achievements

- **problem-solving skills:** Solved over **350 problems on LeetCode**, demonstrating strong problem-solving skills and consistent progress
- Academic Performance: Achieved 1ST position in the college rankings during the first year.
- Hackathon: Participating in DoseHack'24, hackathon organized by Meditab India in collaboration with CHARUSAT.