Ansh Bhavsar

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Objective

A highly motivated and passionate computer science undergraduate with a strong foundation in programming and an avid interest in artificial intelligence. Skilled in problem-solving, teamwork, and adaptability, with hands-on experience in artificial intelligence projects.

Education

Institute of Technology, Nirma University, Ahmedabad, Gujarat, India Sept. 2022 – Jun 2026
Bachelor of Technology in Computer Science *CGPA: 9.09*

Hillwoods School, Gandhinagar, Gujarat, India April. 2008 – Jul 2022
Higher Secondary Education *Percentage: 97*

Skills

Programming Languages: C, C++, Python

Web Technologies: HTML, Flask, MySQL, Postgres

Tools and Frameworks: Pandas, Numpy, Pytorch, Tensorflow, Tableau, Knime, Matlab

Coursework: Natural Language Processing, Computer Vision, Deep Leanring, Machine Learning, Data Analytics and Visualization, Database Management Systems, Operating System, Data Structures

Projects

Stock Price Predictor 2024
Tools: Tensorflow, React JS, Flask, MySQL

- Developed a Full-Stack Web Development project using HTML, CSS, JavaScript, and Python, integrating key functionalities such as database management, real-time visualization, and API interaction.
- Built a deep learning model using LSTM architecture to predict stock prices from historical data, achieving an R score of nearly 0.98. Added features to create portfolios of stocks and analyze prices of prices of cryptocurrency and mutual fund prices.

SmartRoute Optimizer 2025
Tools: Pandas, OpenPyXL, Mapbox API, Geopy

- Developed a route optimization tool leveraging genetic algorithms to optimize multiple objectives, including traffic classification, minimizing delivery times, and efficiently assigning vehicles, thereby increasing overall capacity utilization.
- Designed an interactive UI with Streamlit to visualize results on a map, display shipment allocations, and export the data to Excel format for further analysis.

Experience

Intech Creative Services June 2024 – Jul 2024
Machine Learning Intern *Gandhinagar, Gujarat, India*

- Conducted exploratory data analytics and feature engineering to optimize model performance, while enhancing interpretability using Explainable AI techniques such as LIME, SHAP, and Sensitivity Analysis.
- Developed a predictive model for timely product delivery by integrating machine learning algorithms with Explainable AI methodologies to provide clearer insights into decision-making processes.

Research

Power System Intrusion Detection with Ensemble Learning for False Alarm Mitigation 2024
IEEE Xplore Link

- Developed an ensemble learning model using Decision Trees, Random Forest, and Logistic Regression algorithms, employing both voting and weighted average ensemble techniques for intrusion detection in power systems. The model achieved a notable accuracy of 98%, significantly reducing false alarm rates while effectively classifying various intrusion types.