ROHAN DODIYA

Jersey City, NJ | P: +1 201-993-1446 | dodiyarohan.019@gmail.com | LinkedIn | Portfolio

EDUCATION

NEW JERSEY INSTITUTE OF TECHNOLOGY GPA: 3.83/4
Masters in Data Science 09/2023-05/2025

GUJARAT TECHNOLOGICAL UNIVERSITY GPA: 8.75/10
Bachelors in computer engineering 07/2019- 07/2023

WORK EXPERIENCE

DHIRMA SOLUTIONS - DATA SCIENTIST INTERN 01/2023-05/2023

- Analyzed a dataset of over 50,000 entries, identifying patterns, trends, and outliers, achieving 90% data accuracy post-cleaning
- Engineered relevant features to enhance model performance, applying techniques such as TF-IDF (Term Frequency-Inverse Document Frequency), normalization, and interaction terms, which improved model accuracy by 15%.
- Developed predictive maintenance algorithms using Natural Language Processing (NLP) and achieved up to 90% accuracy by leveraging various machine learning techniques, including ensemble approaches, decision trees, and linear regression, to enhance prediction reliability.
- Utilized Power BI and Python to create educational dashboards and data visualizations, translating complex data insights into actionable intelligence.

UNIVERSITY PROJECTS

FOOD HUB NYC RESTAURANTS DATA ANALYSIS

- Conducted exploratory data analysis (EDA) on a dataset of 1,899 customer orders, identifying patterns in ordering behaviors, which improved operational insights by 20%.
- Created histograms, scatter plots, and time series analyses to identify trends in order costs, preparation times, and delivery times, enabling 95% accuracy in insights derived.
- Designed confidence intervals and hypothesis tests to evaluate key variables, ensuring precise decision-making with a 90% confidence level.
- Established correlations among variables such as preparation and delivery times, uncovering weak positive relationships (correlation coefficient ~0.04) to refine process workflows.
- Built a multiple linear regression model with an adjusted R-squared of 0.87 to predict delivery times

SENTIMENT EXTRACTION MODEL

- Refined and prepared textual data for sentiment analysis by implementing advanced preprocessing techniques (e.g., tokenization, stop-word removal, and stemming), ensuring 100% clean input and improving model reliability.
- Attained 85% accuracy in sentiment analysis by training a robust model and optimizing evaluation metrics, including recall, precision, and F1 score, ensuring a balanced and thorough analysis.
- Automated data extraction using Selenium, dynamically scraping and collecting over 10,000 customer reviews from online sources to provide continuous model training and updates.
- Developed a user-friendly web interface using Flask, enabling seamless interaction with the sentiment extraction tool and providing real-time analysis from customer reviews.

ADDITIONAL

Technical Skills: Python, R, SQL, Data Analytics, Data Visualization, Machine Learning, NLP, Webscraping
Tools: Git/GitHub, VS Code, Excel, Jupyter Notebook, PowerBI, Selenium, Tableau