ROHAN DODIYA

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EDUCATION

NEW JERSEY INSTITUTE OF TECHNOLOGY Sep 2023-May 2025
Master's in data science

GUJARAT TECHNOLOGICAL UNIVERSITY Jul 2019- Jul 2023
Bachelor's in computer engineering

WORK EXPERIENCE

DHIRMA SOLUTIONS LLP Rajkot, India
DATA SCIENTIST INTERN Jan 2023-May 2023

- Conducted exploratory data analysis (EDA) on large datasets to identify patterns, trends, and outliers.
- Engineered relevant features to improve model performance, utilizing techniques such as TF-IDF, normalization, and creating interaction terms.
- Developed algorithms using Natural Language Processing for predictive maintenance.
- Managed to obtain accuracy of up to 90% by experimenting with a variety of machine learning algorithms, such as ensemble approaches, decision trees, and linear regression.
- Skillfully utilized Power BI and Python to create educational dashboards and data visualizations, translating complex data insights into actionable intelligence.

UNIVERSITY PROJECTS

CREDIT CARD CUSTOMERS CHURN PREDICTION (Python, Pandas, Machine Learning, Scikit-Learn)

- Performed in-depth exploratory data analysis to uncover key insights into customer behavior and identify relevant predictive features.
- Utilized machine learning algorithms such as logistic regression and random forests to analyze customer behavior and identify early signs of churn.
- Determined the most effective hyperparameter configuration through the utilization of techniques such as grid search and random search.
- Applied data preprocessing, feature engineering, and model evaluation to ensure the accuracy and effectiveness of churn prediction models and attained an accuracy of 95%.

SENTIMENT EXTRACTION MODEL (Machine Learning, Python, Natural Language Processing, Flask)

- Refined and prepared textual data for sentiment analysis by implementing advanced preprocessing techniques, ensuring high-quality input for analysis.
- Achieved an accuracy of 85% by training the model and further developed measures for recall, precision, and F1 score to conduct a thorough analysis.
- Utilized selenium for dynamic web scrapping, automating data extraction from online source to feed the model.
- 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, web scraping
Tools: Git/GitHub, VS Code, Excel, Jupyter Notebook, PowerBI, Selenium
Soft skills: Communication skills, team management, adaptability