Rohit Rai

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Education

Sardar Vallabhbhai National Institute Of Technology, Surat   2020-2025
Int. MSc Mathematics (GPA: 7.33 / 10.00)   *Surat, Gujarat*
- **Relevant Coursework:** Statistics, Probability, Data Analysis, Machine Learning

Internship

Uptricks Services Pvt. Ltd.   June 2023 - July 2023
Machine Learning Intern.   *Pune-411038, Maharashtra*
- Conducted thorough exploratory data analysis (EDA) on varied datasets, encompassing customer analytics, delivery prognostics, and retail transactional data. Extracted actionable insights from the findings, enabling informed decision-making and strategic initiatives.
- Utilized a range of machine learning methodologies across different domains, such as forecasting call drops in telecommunications, segmenting customers, predicting stock prices through LSTM models, and conducting association mining on retail datasets.
- Led the development and deployment of a machine learning model for predictive analytics, significantly enhancing decision-making processes.

Projects

YouTube Case Study | *Python, Jupyter, Numpy, Pandas, Matplotlib,*
- Conducted comprehensive sentiment analysis on YouTube comments using TextBlob, leading to insights on user sentiment and improving content strategies based on user feedback.
- Performed emoji analysis using Python's emoji library, identifying the most frequently used emojis, which provided deeper understanding of user emotions and increased engagement metrics by 25%.
- Developed and implemented a method to generate word clouds for positive and negative comments, enabling content creators to identify common discussion topics and enhance video relevance.

IPL Data Analysis | *Python, Jupyter, Numpy, Pandas, Matplotlib, Seaborn*
- Conducted a comprehensive analysis of Indian Premier League (IPL) data from 2008 to 2020, uncovering trends and patterns in match outcomes, team performances, and player contributions.
- Analyzed venue and city impact on match results, identifying home-ground advantages and specific location trends, which provided insights into strategic decisions for future matches.
- Performed detailed player performance analysis, highlighting standout players and their impact on team success, assisting in identifying key contributors and potential areas for improvement.

Stock Price Analysis | *Python, Jupyter, Numpy, Pandas, Matplotlib, Seaborn, Plotly Express*
- Comprehensive Trend and Correlation Analysis- Conducted in-depth analysis of historical stock prices for major tech companies (Apple, Amazon, Google, and Microsoft) using moving averages, resampling techniques, and percentage change calculations to uncover trends, patterns, and interdependencies, aiding in strategic investment decisions.
- Interactive Data Visualization- Employed pairwise plots, correlation matrices, heatmaps, and interactive visualizations to provide clear and dynamic representations of stock performance and market behaviors, supporting data-driven decision-making based on empirical observations.

Technical Skills

Coursework: Data Analysis, Machine Learning
Languages: Python, Pandas, Numpy, SQL, MongoDB
Tools: Jupyter, Colab, Matplotlib, Seaborn, Plotly and Dash, Streamlit, Excel, PowerBI

Social Engagements

Organisor: Master Cricket League 2K24.
Sports-Engagements: Chess , Cricket, Gymnasium
Coordinator: Of Training And Placement Cell, NIT Surat