Jayraj Radadiya

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EDUCATION
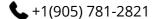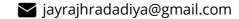
Data Analytics for Business   **Jan 2022 - April 2023**

St. Clair College, 3.8 GPA

Relevant Courses: Advance Statistics, Data Visualizations and Tools, Machine Learning, Deep Learning, Business Analytics & Decision Making.

Bachelor of Engineering in IT,   **Aug 2016 - June 2020**

Gujarat Technological University, 3.3 GPA

Relevant Courses: Data Structures, Big Data Analytics, Data Mining & Business Intelligence, Python. Programming.

SKILLS

Technical Skills: Machine Learning, Deep Learning, Artificial Intelligence, ETL, Data Cleaning, Data Visualization, Reporting, Business Intelligence, Statistical Analysis.

Programming Languages and Tools: Python , R, SQL, Excel, Tableau, Power BI, Google Analytics, GitHub, Google Cloud, Power Query, Microsoft Azure.

Frameworks: Scikit-Learn, Keras, TensorFlow, NLTK.

EXPERIENCE

Data Engineer   **Sept 2023 – Present**

Crescenza Consulting Group

- Utilizing Power BI for dynamic report creation and real-time dashboard development.
- Utilizing SQL knowledge to optimize query creation and data extraction, manipulation, and analysis.
- Engaging in cross-functional collaboration with various departments to address evolving data needs.
- Continuously evaluating business needs and converting them into insights that can be used to meet changing organizational needs.

Business Data Analyst   **May 2023 – Aug 2023**

CloudExt Inc.

- Enriched customer experiences and optimize business strategies by meticulously examining data from 500+ current clients, unveiling trends and patterns that lead to actionable insights.
- Expedited client support and issue resolution by leveraging the CRM dashboard, accessing 500+ client details.
- Result: Enhanced client satisfaction and ensure swift problem resolution, fostering stronger relationships.
- Enhanced decision-making by crafting and managing 3+ dynamic dashboards via Power BI and Tableau, empowering stakeholders with actionable insights that amplify efficiency and inform choices.

Data Analyst Intern   **Jan 2023 – April 2023**

St. Clair College

- Using Python and Big Query, the acquired data from more than 500 students was pre-processed & analyzed. This led to the identification of 3 major trends & the development of data transformation pipelines that significantly sped up processing time by 30%.
- Made our predictions sharper and performance better by putting 3+ machine learning models into action. I showed everyone how to use these models and added clever NLP tricks for understanding sentiments.
- Optimized decision-making by creating and managing 5 dynamic Tableau dashboards, providing invaluable insights that drove enhanced outcomes across operations.

Data Analyst   **July 2020 – Nov 2021**

Tatvasoft

- Elevated data integrity by skillfully overseeing 100,000+ database entries, adeptly rectifying 50+ crucial irregularities. Boosted data retrieval speed by 40% through adept optimization techniques.
- Transformed decision-making with impactful Tableau dashboards, collaborating cross-functionally to slash data integration time by 20%, expediting insights delivery and enhancing team efficiency.
- Achieved 90% client satisfaction rate and sparked positive feedback by skillfully delivering data analysis findings, translating complex insights into actionable strategies that resonated with clients' goals.

PROJECTS

Polycystic ovary syndrome (PCOS) Analysis
Python, Tableau, Scikit-Learn, TensorFlow, Keras.
- Pre-processed the Data using python and then used Scikit-Learn, Keras & TensorFlow to develop Random Forests and Feed-Forward Neural networks.
- Created a Tableau Story consisting of *3* Dashboards identifying the hidden correlations within the data.

Nykaa Google Playstore Review Sentimental Analysis
Python: Pandas, NumPy, NLP: Nltk, ML: Scikit-Learn.
- Used Python to clean & transform over *150k* records of reviews from Google play store. Performed Sentimental Analysis using Natural Language Processing Toolkit (NLTK).
- Compared K Nearest Neighbour, Support Vector Machine, Decision Tree & Random Forest.
  Result: Random Forest with *87%* Validation Accuracy.

Cognizant CTSH : Financial Analytics
CAPM, Monte Carlo Simulation, FB Prophet.
- Used data of Cognizant Stock (2018-2022) from Yahoo Finance in Python using *yfinance*. Calculated Expected Return & Stock Valuation using Capital Asset Pricing model and Dividend Growth model.
  Result: Expected Return Rate of Cognizant came out to be *9.417%* And Stock was valued at *$71.715*.
- Performed Monte-Carlo simulations on the data to simulate stock prices for Jan 1, 2023, to Dec 31, 2023, which predicted. Standard Deviation : *1.25* .
- Created Buy-Sell signals in Stock market using Moving Average. Used Facebook prophet to forecast Future Trends and pattern.

Air Quality USA between 1980-2020
Microsoft Excel, Power Query, Tableau, Forecasting.
- Transformed the data into proper Time Series Data and a pre-defined Structure using Power Query.
- Developed a Tableau Story of *3* Dashboards to analyze the air Quality Index throughout the time period.
- Using Tableau analytics Forecasted the Average AQI of USA and its States getting better by almost *7%* in current ongoing decade.

Bike Sales in Europe Analysis
Tableau Prep, Tableau, Forecasting.
- Utilized Tableau Prep to meticulously cleanse, transform, and structure the data into the desired target format, ensuring its optimal suitability for subsequent analytical endeavors.
- Crafted a comprehensive tableau narrative encompassing the *3* pivotal domains of the industry, adeptly weaving together their intricate threads to provide a holistic and insightful perspective.

Indian Consumer Price Index Avg Growth Rate Dashboard
Python, Power Query, PowerBI.
- Utilized both Python and Power Query to proficiently process and restructure the data, ensuring its successful transformation.
- I have successfully designed an interactive Power BI dashboard with a primary emphasis on analyzing the Compound Annual Growth Rate (CAGR) of the Consumer Price Index (CPI) across distinct sectors within the Indian economy. The dashboard facilitates a comprehensive visualization of the growth trajectories, enabling informed insights into the evolving trends and patterns of CPI expansion across various sectors.

Analyzing Academic Behavior in Relation to Student Background
Google Cloud, BigQuery, SQL, Tableau, Scikit-Learn, Keras, TensorFlow, SciPy Stats, VADER.
- Created *2* Fully Automated Pipeline with ETL on Google Cloud Platform with BigQuery as Load destination.
- Performed BoxCox Transformation, T-test, Annova & Welch's Test on the Students data to explore the Statistical impacts of Student's Background on their Academic Performance.
- Developed and compared ML models and Neural Network using *2* approaches. **Result:** FFNN Classifier was able to achieve *45%* accuracy on real data.
- Used VADER to determine the sentiment of each student's feedback. **Result:** Majority of Feedback was having positive sentiment score [VADER range used : *-1* to *1*].
- Created Interactive dashboards analyzing Student's Demographic, Employment, & their College Experience.
- Also created *2* Dashboards to monitor students' responses to the survey and its Analysis. Resulting into Optimized Dashboard showing Areas that need special attention using KPI's.

Salary Insights Dashboard
Python, Power Query, Tableau.
- I used advanced Python programming skills along with Power Query to effectively handle and carefully restructured dataset.
- Demonstrated proficiency in developing an interactive and insightful dashboard that enables comprehensive analysis of key salary influencers, including location, gender, race, and education level. This powerful tool empowers data-driven decision-making by providing a visually engaging representation of salary impact.