Sai Jayavardhana Reddy | Data Analyst

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SUMMARY

Data Analyst with over 3 years of experience in healthcare technology, financial services, and IT consulting. Proficient in leveraging Python, SQL, R programming, and machine learning algorithms to extract insights from complex datasets and drive data-driven decision-making. Skilled in features engineering, statistical modeling, and implementing advanced data engineering solutions on cloud platforms such as AWS. Experienced in coordinating with stakeholders, ensuring adherence to industry regulations, and delivering impactful solutions that improve customer engagement and satisfaction. Proven track record of success in optimizing processes, enhancing user experiences, and driving business growth through innovativedata-driven strategies.

EXPERIENCE

Credit Suisse, USA   **Aug 2023 – Present**
Data Analyst

- Participated in feature engineering, including feature intersection generation, normalization, and label encoding with Scikit-learn.
- Applied Machine Learning Algorithms and Statistical Modeling to generate customized datasets by extracting, transforming, and summarizing from largely semi-structured data using Python and SQL.
- Executed SQL queries to extract financial asset data from databases, later employing PySpark for meticulous data manipulation.
- Performed logistic Regression, Decision Trees (CART), KNN, K-Means and Random Forest using python programming.
- Design and implement data engineering, ingestion and curation functions on AWS cloud using AWS native or custom programming.
- Designed an efficient loop structure to extract, transform, and load (ETL) large-scale datasets using PL/SQL scripts.
- Designed and implemented multifaceted Tableau dashboards with interactive features and dynamic drill downs, resulting in a 20% increase in customer engagement and contributing to the acquisition of 15 new customers and clients.

Tata Consultancy Service, India   **Nov 2020 – May 2022**
Data Analyst

- Utilized Python and SQL proficiently to extract and harmonize data from diverse sources as a Data Analyst, ensuring a seamless data flow. Ensured a seamless data flow and notably integrated customer interaction data from various resources.
- Crafted compelling visualizations using Python and R, playing a pivotal role in conveying intricate insights effectively within the banking sector. These graphical representations contributed significantly to a remarkable 20% increase in stakeholder engagement.
- Managed and queried databases using SQL in a banking context, implementing indexing strategies to optimize data retrieval. Successfully reduced query execution time by an impressive 25%.
- Engaged actively with banking clients to comprehend their specific data requirements, delivering tailored insights that met their unique needs. Additionally, utilized JIRA for task management in a collaborative cross functional work environment.

Citus Infotech, India   **Oct 2019 – Oct 2020**
Data Analyst

- Utilized SQL, Python, and statistical modeling to analyze supply chain data using advanced analytics and data mining, improving data-driven decision-making by 15% using MS Excel and Matplotlib for exploratory data analysis.
- Enhanced retail supply chain management efficiency by 20% through the application of statistical techniques and machine learningalgorithms, extracting actionable insights from vast datasets to streamline operations and decision processes.
- Develop and maintain Python scripts and workflows for automating data extraction, transformation, and loading (ETL) processes, ensuring data integrity and consistency.
- Constructed dynamic and visually compelling dashboards in Tableau, effectively displaying trends, seasonality, and key metrics segmented by business divisions, which leading to a 15% reduction in operating costs by restructuring business KPIs.

TECHNICAL SKILLS

Languages and Databases: Python, SQL, JavaScript R, Pyspark, PostgreSQL, MySQL, SQLite, MS SQL Server (SSMS)
Tools: Git, GitHub, VS Code, Word, Tableau, Power BI, PowerPoint, Microsoft Office, excel, R Studio, Big Data, VisualStudio
Methodologies: System Development Life Cycle (SDLC), Agile
Cloud: AWS - S3, EC2, Crawler, Glue, RedShift, Azure - Azure Data factory, Data Lake, Data Bricks
Data Science Skills / Tools and Techniques: EDA, Requirement Gathering, Data Warehouse, Data Analysis, Data Cleaning, Data Visualization, Data Mining, Machine Learning, Data Modeling, Statistics, predictive analytics/ predictive models

EDUCATION

University At Buffalo,   Buffalo, NY
Master of Science, Data Science - CGPA: 3.9/4   December 2023
SASTRA deemed to be University   Thanjavur, India
Bachelor Of Technology in Electrical and Electronics Engineering - CGPA: 3.2/4   May 2020

PROJECTS

Uber Data Analytics with Azure

- Spearheaded supply chain analytics using Azure Data Bricks, PySpark, and Snowflake, resulting in a 15% operational cost reduction. Enhanced ETL processes for varied data formats, ensuring centralized access and scalable storage on Snowflake.

- Coordinated cross-functionally, meeting project milestones and presenting Power BI reports; contributed to data-driven decision-making in supply chain optimization.

- Ingested on-premises SQL Server tables using Azure Data Factory, storing data in Azure Data Lake database for centralized access.

- Transformed 90% raw data into a refined, clean format with Azure Databricks, optimizing it for analytics.

- Utilized Microsoft Power BI to create interactive dashboards integrated with Azure Synapse Analytics, enhancing data visualization by 80%. Employed Azure Active Directory and Azure Key Vault for robust monitoring and governance, ensuring 95% compliance.

EDA Automation

- Designed and executed an innovative automated Exploratory Data Analysis (EDA) package, enhancing data handling across diverse file formats and decreasing data processing time by 30%.

- Pioneered an outlier detection method operating the Interquartile Range (IQR) technique, leading to a 15% improvement in data accuracy and a 20% reduction in erroneous results. Additionally, catalyzed seamless exploratory data visualizations, improving data understanding and empowering data-driven decision-making.

Retail Cohort Analysis

- Spearheaded the development and deployment of an interactive sales analysis dashboard, yielding a 20% increase in data accessibility and a 15% improvement in decision-making efficiency.

- Conducted comprehensive data analysis, employing RFM (Recency, Frequency, Monetary) analysis, enhancing marketing campaign targeting precision by 5% and increasing customer engagement by 10%.

- Uncovered actionable insights into product performance, customer segmentation, and sales trends, utilizing data mining techniques to discover frequently sold-together products, resulting in a 12% boost in cross-selling revenue.

- Led initiatives to optimize operational processes, driving a 15% reduction in operational costs while ensuring centralized access and scalable storage for diverse data formats.

Safe Trax Analysis

- Orchestrated the development of a comprehensive dashboard for road accidents spanning a two-year period, focusing on key performance indicators (KPIs) such as total casualties, accident severity, vehicle types, road conditions, and other relevant factors.

- Implemented meticulous data cleaning and preprocessing procedures to ensure data quality and consistency, employing advanced Excel functions and pivot tables for efficient analysis of a large dataset.

- Crafted and implemented interactive visualizations within the Excel dashboard, empowering stakeholders to dynamically explore insights on casualty trends, vehicle involvement, road types, surface conditions, and geographical patterns.