SAJIN PALOLI

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Portfolio

Professional Summary

- Data Scientist and Power BI Developer with 3 years at Cognizant Technology Solutions.
- Expert in developing and deploying machine learning models, as well as data cleaning, preprocessing, and analysis using Python, Pandas, and NumPy.
- Proficient in creating and managing Power BI dashboards, designing data models, and implementing ETL processes. Demonstrated ability to collaborate with cross-functional teams, leading to significant improvements in operational efficiency and data-driven decision-making.
- Certified in Power BI and Azure Fundamentals.

Education

Bachelor of Technology in Mechanical Engineering
2017 - 2021

- College of Engineering Trivandrum, Kerala Technological University, India
- CGPA: **8.34**

Skills

Python | MySQL | Power BI | Machine Learning | Pandas | NumPy | Data Visualization | Matplotlib | Git | JIRA

Work Experience

Cognizant Technology Solutions | **Associate**

Sep'21 - Jul'24

Data Scientist / Power BI Developer

- Developed and implemented machine learning models to address various business challenges, enhancing decision-making processes.
- Cleaned, preprocessed, and analyzed data to uncover patterns and trends, utilizing tools such as Pandas, NumPy, Matplotlib, and Seaborn.
- Collaborated with cross-functional teams to integrate data science solutions into business operations, resulting in a 15% increase in operational efficiency.
- Created and managed Power BI dashboards and reports to aid business decision-making.
- Designed data models and implemented ETL processes using Power BI, ensuring data accuracy and integrity.
- Developed interactive visualizations to present complex data insights in an accessible manner, leading to a 20% improvement in data-driven decision making.
- Maintained comprehensive documentation for all works, including code, methodologies, and results.
- Communicated findings and recommendations to stakeholders through detailed reports and presentations.

Personal Projects

Analyzing and Predicting Movie Performance

- Analyzed a movies dataset using Python, Pandas, and NumPy to evaluate performance metrics such as revenue, budget, and ROI, identifying top and bottom performers.
- Conducted specific searches for films featuring particular actors and genres, and assessed the impact of franchises versus stand-alone movies using Python and Scikit-learn.
- Explored the success of directors and actors with data visualization tools such as Matplotlib to gain insights into their influence on the industry.
- Utilized descriptive statistics and data cleaning techniques to present findings and trends effectively.

Data Cleaning and Transformation

- Cleaned and processed a movies dataset using Python, Pandas, and NumPy, focusing on removing irrelevant columns and handling nested JSON data.
- Flattened complex JSON columns to extract key information, and converted data types for numerical and date fields. Addressed missing values, removed duplicates, and standardized text fields for consistency.
- Reorganized the dataset, updated URLs, and saved the cleaned data into a CSV file for further analysis.

Baby Names Analysis

- Analyzed a baby names dataset with Python, Pandas, and Matplotlib to identify popular names in 2018 and track trends from 1880 to 2018.
- Developed functions for top names and visualized yearly trends, including total registrations and unique names.
- Added metrics for popularity and rank, and explored changes in name popularity and unisex names.

Housing Data Preprocessing and Price Prediction

- Cleaned and engineered features in a housing dataset using Python and Pandas.
- Added metrics like rooms per household and population per household.
- Analyzed correlations and visualized geographic data.
- Built a Random Forest model to predict house prices, evaluating its performance and feature importance.

Certifications

- Microsoft Certified: Power BI Data Analyst Associate
- Microsoft Certified: Azure Fundamentals