Jhanvi Shah

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WORK EXPERIENCE

Cantonica   **August 2024 – Present**
Data Analyst   **New York, USA**
- Enhanced web crawler accuracy by 15% through improved data extraction methods and seamless integration with MongoDB, supporting efficient data storage and retrieval
- Designed and automated an ETL pipeline by extracting web-crawled data, transforming it using LangChain for improved accuracy, and loading the processed data into MongoDB, ensuring efficient storage and retrieval.
- Implemented a periodic checker system to monitor over 100 applications daily, ensuring operational validity and updating the last_checked field in MongoDB, improving data reliability by 20%
- Automated post-crawl data processing using Langchain, extracting relevant fields from the raw data, reducing manual processing time by 30%
- Utilized Postman to test over 50 APIs, ensuring seamless functionality, debugging errors, and validating response accuracy

CBRE Group Inc.   **June 2023 – August 2023**
Data Analyst   **New Jersey, USA**
- Conducted quantitative analysis of termination data for 10,000+ employees to identify key reasons for attrition, leveraging insights to develop a comprehensive Power BI dashboard aimed at reducing employee turnover.
- Prepared and cleaned HR data in Excel, structured it for analysis, and integrated it into Power BI for visualization, enabling data-driven insights
- Partnered with cross-functional teams to gather business requirements and ensure data accuracy for a Power BI dashboard that reduced attrition data inconsistencies by 40%
- Analyzed leaders' performance and utilized Power BI to present insights, facilitating managerial decisions on promotions that led to a 15% increase in internal promotions
- Provided hands-on training to senior team members on Power BI and data analysis best practices, improving reporting efficiency by 30%

Sportz Interactive   **July 2021 – August 2022**
Data Analyst   **Mumbai, India**
- Conducted requirements gathering and project scoping sessions with stakeholders, aligning data initiatives with business needs
- Designed and automated schemas using stored procedures in PostgreSQL, tailored to meet client requirements for over 30 clients, leading to an 80% decrease in information retrieval times
- Managed a team of 10 associates and provided training sessions on data analysis and dashboard development in Tableau, enhancing overall team productivity by 40%
- Leveraged Tableau to design compelling visualizations illustrating user engagement and revenue metrics, resulting in streamlined client presentations and a 50% reduction in decision-making timelines

PROJECTS

NYC Airbnb Data Analysis and Predictive Modeling
- Conducted data cleaning and exploratory analysis on NYC Airbnb data, applying clustering techniques and visualizing trends through box plots and histograms to uncover key patterns.
- Developed a binary classification model to predict listing availability, achieving high precision scores, and evaluated model performance for data-driven insights

Global Terrorism Data Analysis and Forecasting
- Preprocessed a global terrorism dataset using Pandas and conducted exploratory data analysis (EDA) to identify trends and patterns over time
- Built a linear regression model with scikit-learn to forecast terrorism incidents, visualizing insights and predictions with Matplotlib

Patient Readmission Prediction
- Developed a machine learning model to predict patient readmission using the Diabetes 130-US Hospitals dataset, optimizing data preprocessing and feature selection with Random Forest to improve prediction accuracy
- Performed exploratory data analysis and visualizations to identify key factors influencing hospital readmissions, including patient demographics, length of stay, and prior admissions, improving model interpretability

SKILLS

Programming/Framework: SQL, PostgreSQL, Python, NumPy, Pandas, Matplotlib, Flask, Linear Regression, Random Forest
Software & Tools: Microsoft Excel (Pivot tables and VLOOKUP), Spark, Tableau, Power BI, Git, GitHub, MongoDB

EDUCATION

Stevens Institute of Technology, School of Business   **May 2024**
Master of Science in Information Systems   **(GPA:3.8/4.0)**

St Francis Institute of Technology   **June 2021**
Bachelor of Engineering in Computer Science   **(GPA: 3.4/4.0)**