VASU MANOHARAN

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https://github.com/vasumanoharan | https://public.tableau.com/app/discover

WORK EXPERIENCE

V.V.M SOFT SOLUTION PVT LTD : – Data Analyst.   **October/2020-March/2024**

Chennai,India.

- Successfully utilized the **Power BI tool** for **data visualization,** creating visually appealing reports and presentations that effectively conveyed client insights and recommendations.
- Proficient in writing complex **DAX** expressions to perform **calculations, aggregations, and statistical analysis** within **Power BI reports** and **measures**.
- Developed and maintained interactive dashboards in **Tableau**, **visualizing key performance indicators (KPIs)** and providing actionable insights to stakeholders.
- Cleaned and transformed raw data using **Python and SQL**, ensuring data quality and integrity for **analysis.**
- Experienced in **manipulating arrays, reshaping, slicing, indexing, and concatenating arrays** to prepare data for analysis and modeling.
- Skilled in transforming and reshaping data using **pandas**, including **pivoting, melting, stacking,** and unstacking operations, to prepare **data for analysis and visualization.**
- Experienced in creating a wide range of static and interactive visualizations using Matplotlib, including **line plots, scatter plots, bar charts, histograms, box plots, heatmaps,** and more, to communicate insights from data effectively.
- Conducted statistical analysis on **customer data, identifying patterns** and trends to improve customer segmentation and targeting strategies.
- The job profile for an IT support and development professional typically includes a wide range of responsibilities related to the management and maintenance of an organization's IT infrastructure
- Conducting regular system updates and patches to ensure optimal performance and security. Developing and maintaining IT policies, procedures.
- Design, develop and maintain Oracle database object such **as Tables, Views, Synonyms, Materialized views, Sequences and Indexes.**
- To maintain a source code repository in **Git,** you should initialize a **new repository, add files, commit** changes with descriptive messages, create and manage branches, collaborate with others using **push/pull,** and monitor and manage the repository using **Git tools.**
- Proficient in using version control systems like **Git** to manage codebase and collaborate effectively with team members.
- Experienced in ensuring compatibility across various browsers and devices by writing clean and standardized **HTML**, **CSS**, and **JavaScript code.**
- Skilled in using **DML** statements (e.g., **INSERT, UPDATE, DELETE**) to modify data in database tables while ensuring data consistency and transactional integrity.
- Familiar with **DDL** statements (e.g., **CREATE, ALTER, DROP**) to define and modify database objects such as **tables, views, indexes, and constraints.**
- Proficient in designing and implementing **Extract, Transform, Load (ETL)** processes to extract data from various sources, transform it into a consistent format, and load it into a target database.

PROJECTS

Created Cryptocurrency Dashboard using Power BI.

- Developed an innovative **cryptocurrency dashboard** using **Power BI** that provided real-time insights into market trends and performance across multiple currencies.
- Demonstrated exceptional technical skills in **data visualization, data modeling, and data analysis** while creating the cryptocurrency dashboard.
- Experience in using **charts to analyze trends, patterns**, and **relationships for data analysis** and reporting.
- Skilled in selecting appropriate **chart types**, **adding titles, labels,** and formatting options for clear data visualization.

Hudson's Bay Company(HBC) - IT support project.

- Modifying **various existing Procedures, Trigger and Functions** according to the new business needs and carrying out the impact analysis too.
- Used **Pragma Autonomous Transaction** to commit the child transactions without affecting the parent transaction commit status.
- Collaborated closely with cross-functional teams to gather requirements, design software solutions, and deliver projects within deadlines.
- **CI/CD** pipelines using tools like **Jenkins, GitLab**, and **AWS Code Pipeline.**
- Expertise in using **DDL, DML, DCL and TCL Statements in SQL.**

Sales Analysis Dashboard

- Developed an interactive **dashboard** using Power BI to analyze sales data from multiple regions and product categories
- Utilized data visualization techniques to identify **trends**, **patterns**, and sales performance metrics. **Implemented slicers, filters, and drill-down** functionality for user-friendly exploration of data.
- Presented insights and recommendations to **stakeholders** for strategic **decision-making.**
- Technologies Used: **Power BI, SQL, Excel, Data Modeling, Data Visualization**.

Web Scraping and Data Extraction

- Developed a web scraping tool to extract real estate listings data from multiple websites. Implemented web scraping scripts using Python libraries such as **BeautifulSoup and Scrapy to crawl and extract** structured data from **HTML pages.**
- **Cleaned and transformed** scraped data into structured datasets using pandas.
- Processed scraped data using pandas to **clean and transform** it into structured datasets suitable for analysis.
- Generated visualizations and summary reports to analyze property prices, locations, and market trends.
- Python, BeautifulSoup, Scrapy, Web Scraping, **Data Extraction, Data Cleaning, Data Transformation**, **Data Visualization.**

Stock Price Prediction

- Developed a machine learning model to predict stock prices for a selected set of companies using historical **stock market data.**
- Collected and preprocessed data from financial **APIs** and online sources
- Applied time series analysis techniques and **LSTM (Long Short-Term Memory)** neural networks to forecast future stock prices. Evaluated model performance using metrics such as **RMSE (Root Mean Squared Error)** and **MAE (Mean Absolute Error).**
- Technologies Used: Python, pandas, NumPy, TensorFlow, LSTM, Time Series Analysis, Data Collection, Model Evaluation.
- Leveraged Python for programming, **pandas** and **NumPy** for **data manipulation**, TensorFlow for deep learning implementation, and **LSTM** for **time series analysis.**

SKILLS

Programming Languages   : - Python, **SQL** and **PLSQL**

- Proficient in **Python programming** language with hands-on experience in developing applications for various domains such as data science, web development, and automation.
- Demonstrated expertise in utilizing Python libraries and frameworks such as **NumPy, Pandas**, Flask, and Django to efficiently handle **data manipulation, analysis**, and web development tasks.
- Proficient in writing complex SQL queries involving **joins, subqueries, tables, views, aggregate functions** and advanced filtering conditions.
- Skilled in writing complex SQL queries to retrieve, **manipulate, and analyze data** from relational databases efficiently.
- Skilled in managing database transactions using transaction control statements (**e.g., COMMIT, ROLLBACK, SAVEPOINT**) to ensure data consistency and ACID properties.

Data visualization tools   : - Matplotlib, Tableau, Power BI

- Proficient in **Matplotlib**, a popular **data visualization** library in Python, used to create high-quality **charts, graphs, and plots.**
- Proficient in Tableau, a leading data visualization tool, used to create interactive and insightful **dashboards, reports, and visualizations.**
- Skilled in leveraging Tableau's advanced features like **calculated fields, sets, groups, and hierarchies** to derive insights from complex data sets.
- Strong understanding of **Power BI's** components, including **Power Query, Power Pivot, and Power View**, for **data preparation and visualization**.
- Experience in building visually appealing and interactive **dashboards, reports, and visualizations** in **Power BI** to present data insights effectively.
- Experienced in publishing Power BI reports and dashboards to the Power BI service, configuring data **refresh schedules, managing security and permissions**, and sharing reports with stakeholders.
- Knowledgeable about implementing advanced analytics techniques in Power BI, such as predictive **modeling, forecasting, clustering, and time series analysis**, to derive actionable insights from data.
- Experienced in publishing **Tableau workbooks to Tableau Server**, managing user access and permissions, scheduling **data extracts and refreshes**, and administering server resources.
- Experienced in connecting Tableau to various data sources**, including databases, spreadsheets, and web services**, to extract and integrate data for analysis.

Microsoft tools   : - General Office and Presentation, Advance Excel.

- Proficient in general office software such as **Microsoft Office Suite** (Word, Excel, PowerPoint, Outlook) and Google Workspace (Docs, Sheets, Slides, Gmail, Calendar).
- Proficient in data analysis and manipulation using Excel's advanced features, such as **pivot tables, data validation, conditional formatting, and filters.**
- Experience in automating repetitive tasks in Excel using **macros and VBA** (Visual Basic for Applications) programming.
- **Skilled in data visualization** and creating **informative charts, graphs, and dashboards** using Excel's charting and graphing tools.
- Skilled in performing various data manipulation tasks in Excel, such as sorting, filtering, and transforming data using functions like **VLOOKUP, INDEX-MATCH, and CONCATENATE.**
- Knowledgeable about using advanced Excel functions such as **IF, SUMIF, COUNTIF, SUMIFS, COUNTIFS, and AVERAGEIFS** for conditional calculations and data aggregation.

ACADEMIC QUALIFICATION

BE (CIVIL), Anna University – Tiruchirappalli**.**   **2015-2019**