VALAY RAVIDAS KHADE

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Profile

Data Analyst skilled in data cleaning, visualization, and statistical analysis using Python and Power BI. Experienced in transforming complex datasets into meaningful insights to support data-driven decision-making. Proficient in using tools like Pandas, NumPy, Matplotlib, Seaborn, and Power BI for trend analysis, reporting, and interactive dashboard creation.

Education

BCA-Bachelor of Computer Application   2017 – 2020
ISBM University

Professional Course Section

Data Analyst Course Done From IT Training Institute   2023 – 2024

Skills

Programming Languages:
 Python, HTML, CSS, SQL

Libraries & Frameworks:
 Pandas, NumPy, matplotlib

Technologies & Tools:
 Data Analytics, Data Visualization, Microsoft PowerBI, MySQL, Advanced Excel, Tableau

Certificates

Web Design Essential   **Python**   **SQL**
 HTML, CSS, JS

Projects

Project Title: Data Analysis of Crimes Against Women in India
Description: Conducted an in-depth analysis of crime data related to women across various states in India. The project utilized a dataset containing records of crimes categorized by types such as rape, kidnapping & abduction, dowry deaths, assault on women, domestic violence, and more from 2001 to 2021. The analysis included:

- **Data Cleaning**: Managed data preparation by handling missing values, dropping irrelevant columns, and resolving inconsistencies in state naming conventions.
- **Data Aggregation**: Aggregated data by states to identify regions with the highest incidences of specific crimes, such as rape and assault on women.

- **Visualization**: Used visualization tools like Matplotlib and Seaborn to create bar charts and pie charts highlighting trends over time and top states by crime categories.
- **Key Findings**: Identified Madhya Pradesh and Uttar Pradesh as states with the highest recorded incidents of rape and other violent crimes against women. Analysis provided insights into trends over the years, aiding in the understanding of patterns and regional disparities.
- **Technologies Used**: Python (Pandas, NumPy), Matplotlib, Seaborn.

Project Title: - Power BI Sales Dashboard – AdventureWorks:
Developed a visually compelling and interactive Power BI dashboard to track and analyze key sales performance metrics, including revenue, profit, order trends, and return rates. Highlights include:

- **Key Metrics Display:** Created KPI cards for revenue ($24.9M), profit ($10.5M), orders (25.2K), and return rate (2.2%) to provide stakeholders with a clear snapshot of business performance.
- **Trend Analysis:** Visualized weekly revenue trends with a line chart, showcasing consistent growth from 2020 to 2022, with added trend lines for clarity.
- **Category Performance:** Analyzed product categories using a bar chart, identifying Accessories as the top-performing category with 17K orders.
- **Product Insights:** Built detailed product-level tables with conditional formatting to flag items with high return rates for quality review.
- **Interactivity:** Added slicers, drill-down buttons, and filters (e.g., "Tires and Tubes") for deeper insights into specific product categories.
- **Data Preparation:** Cleaned and transformed data in Power Query, calculated return rates and monthly growth using DAX, and optimized data models for performance.

This dashboard empowered decision-makers to monitor KPIs in real time, identify trends, and make data-driven strategies for improving sales, marketing, and product quality.