**Dashboard Creation Report**

**Overview**

This report details the process of creating a dashboard using data from the 'Walmart.csv' file, hosted on GitHub. The dashboard is designed to provide the details of sales, customer and product performance. The following sections outline the API selection, data fetching steps, and the visual elements used in the dashboard.

**API Selection and Data Fetching**

**API Selection**

The chosen API is a CSV file hosted on GitHub, the relevant URL given below <https://raw.githubusercontent.com/LokeshKumarChauhan/DE_with_powerBI/main/Walmart.csv>

This file contains relevant data for creating the dashboard.

**Data Fetching**

The data is fetched using Python code, which imports the Pandas library to read the CSV file from the specified URL.

Python Code:

import pandas as pd

url = "https://raw.githubusercontent.com/LokeshKumarChauhan/DE\_with\_powerBI/main/Walmart.csv"

df = pd.read\_csv(url)

df.info()

**Visuals Used in the Dashboard**

* Cards
* Waterfall Chart
* Stacked Bar Chart
* Line Chart
* Table

**Cards**

Cards are used to display key metrics such as the count of customers, total orders, total products, and profit. These metrics provide a quick overview of the data.

**Waterfall Chart**

The waterfall chart is used to display the changes in profit over the years, highlighting increases and decreases. This visual helps in understanding the trend of profitability.

**Donut Chart**

The donut chart is used to show the contribution of products by category, providing a clear view of the distribution. It helps in identifying which product categories are the most significant contributors to the sales.

**Gauge**

The gauge visual represents the sum of the quantity involved in sales, offering a quick overview of sales volume.

**Stacked Bar Chart**

The stacked bar chart is used to list the top products by sales. This visual helps in identifying the best-selling products and their sales contributions.

**Line Chart**

The line chart is used to display sales over the year by category of the product. This helps in understanding the sales trend for different product categories over years.

**Table**

The table lists the top 5 customers by order. To achieve this, measures of order count and customer rank based on the number of orders are created. This provides insights into the most loyal or active customers.

**Conclusion**

The dashboard provides a comprehensive view of the Walmart sales data, including key metrics, profit trends, product and customer contributions. The visual elements used in the dashboard facilitate easy understanding and analysis of the data. The use of cards, waterfall charts, donut charts, gauges, stacked bar charts, line charts, and tables cater to different aspects of the data, making the dashboard informative and user-friendly.