**DAV PACKAGE**

**SUPERSTORE DATA ANALYSIS**

GOWTHAM S (22PD13)

DHARANI S (22PD11)

SAMRIDHAA R (22PD29)

**Abstract:**

This Streamlit and Plotly-based Python script provides a comprehensive exploratory data analysis (EDA) of a Superstore sales dataset. It offers a user-friendly interface with interactive widgets and visualization tools to facilitate in-depth exploration of the data.

**Key functionalities of the script include:**

**Data Loading and Filtering:** Users can upload their own dataset or utilize a default Superstore sales dataset. The script allows filtering of data based on date ranges, regions, states, and cities, providing flexibility in analyzing specific subsets of the data.

**Visualization:** The script generates various interactive visualizations, including bar charts, pie charts, line charts, scatter plots, and treemaps. These visualizations offer insights into sales trends, regional performance, time-series patterns, segment-wise sales distribution, and relationships between sales, profits, and quantities.

**Data Summary and Download:** Users can access summary tables presenting aggregated sales data and download filtered datasets for further analysis. Additionally, the script enables users to export analysis results as CSV files, facilitating seamless integration with other tools and platforms.

**Interactivity:** The interface is designed to be intuitive and user-friendly, with interactive widgets for date selection, region, state, and city filtering. Expandable sections provide organized access to different aspects of the analysis, enhancing the user experience.

By leveraging Streamlit's capabilities for creating web applications and Plotly's interactive visualization library, this script offers a powerful tool for exploring and understanding Superstore sales data. It enables users to uncover actionable insights, identify trends, and make data-driven decisions to optimize business performance.