

UNIVERSITY INSTITUTE OF COMPUTING

PROJECT REPORT ON

Sales Performance Dashboard

Program Name: BCA

Subject Name: DATA INTERPRETATION LAB

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Sales Performance Dashboard

INTRODUCTION

In the digital age, businesses rely heavily on insightful data visualization to make smarter and faster decisions. This project presents an interactive web-based Sales Performance Dashboard that allows users to upload Excel (.xlsx) sales data and instantly view visual insights through five dynamic charts.

What sets this dashboard apart is its strong integration with Microsoft Excel. The entire dataset was initially created and structured using Excel, which served as the foundation for the dashboard. Excel helped in organizing, cleaning, and shaping the data before feeding it into the web-based interface.

Combining Excel's data handling power with modern web technologies such as HTML, CSS3, JavaScript, and Plotly.js, this dashboard bridges traditional tools with interactive, modern-day data presentation.

PROJECT DISCRIPTION

The primary goal of this project is to design an intuitive, interactive dashboard that helps visualize business sales trends from a structured Excel data source. Users can upload an Excel file and immediately gain insights across several dimensions—like top-performing products, customer-wise sales, state-wise performance, and more.

The dashboard layout adopts a glass morphism design, offering a modern and sleek user experience. Each chart is generated dynamically using JavaScript and Plotly.js, based on the uploaded Excel dataset.

This makes it easier for companies to identify trends, compare performance across regions or products, and take informed actions quickly.

Role of Microsoft Excel in the Project

Even though the final visualization layer is built using HTML, JavaScript, and Plotly.js, Microsoft Excel played a foundational role in this project. Here's how:

Excel Role	Description
Data Entry and Structuring	All sales data, including Order ID, Dates, Customer Names, Product Names, State, and Sales figures, were manually created and organized in Microsoft Excel.
Data Cleaning and Accuracy	Excel's built-in tools like data validation, filtering, sorting, and conditional formatting helped ensure data accuracy.
Data Preparation and Export	Excel data was used directly by parsing it in JavaScript via an XLSX parser, serving as the dataset source for the dashboard.
Quick Analysis (Optional)	Before visualization, Excel was used to conduct quick calculations using formulas and pivot tables.

TECH USED &THEIR PURPOSE

Technology	Purpose
Microsoft Excel	Data entry, cleaning, and preparation.
HTML5	Base structure of the web interface.
CSS3	Enhances the UI design with modern transparent, blur and rounded corners.
JavaScript	Handles data processing, chart generation and file uploading.
Plotly.js	Generates interactive charts and visualizations.
XLSX.js	Parsing Excel file into JavaScript-usable format.

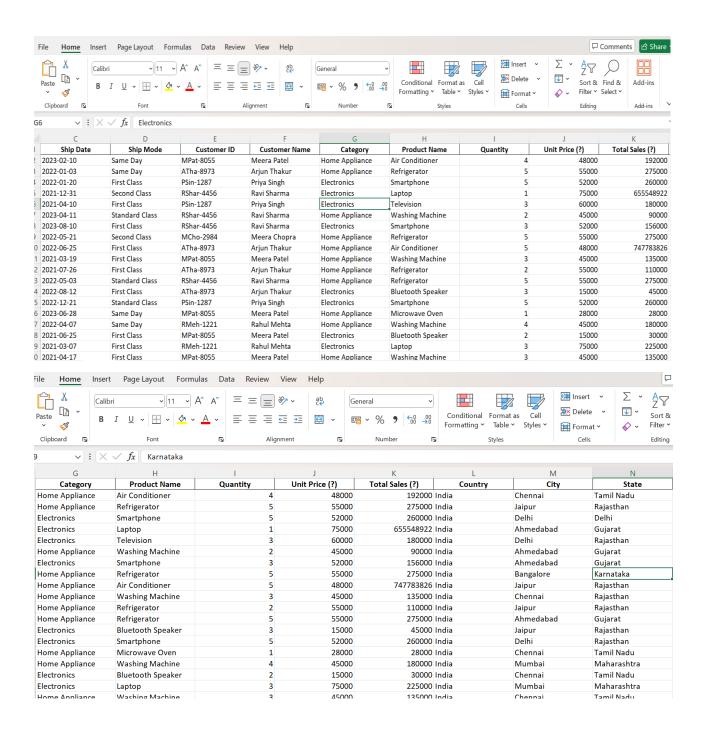
Key Functional Requirements

- Upload Excel (.xlsx) file containing structured sales data
- Auto-render five types of charts based on uploaded Excel data
- Apply glass morphism effects for modern visual appeal
- Responsively adjust layout and chart sizes
- Fully interactive elements (hover, zoom, etc.)

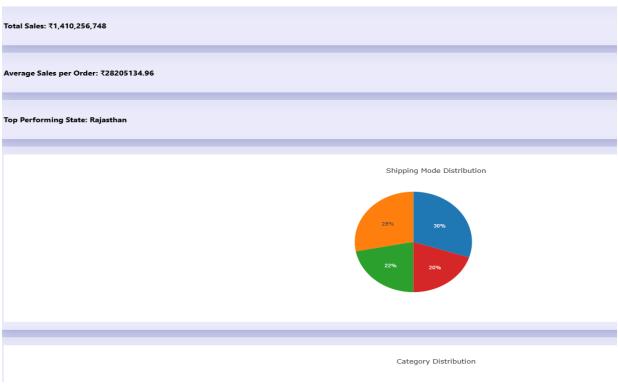
Chart Requirement and Purpose

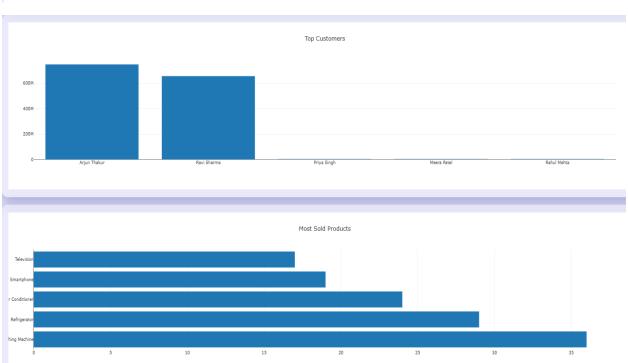
- 1. Monthly Sales Trend (Line Chart)
- Purpose: Shows how your total sales fluctuate month by month.
- •Insight: Helps identify peak and low-performing months to plan inventory and promotions.
- 2 Sales by Category (Pie Chart)
- Purpose: Displays how sales are distributed among product categories like Electronics, Furniture, etc.
- •Insight: Reveals which category contributes the most to your revenue.
- 3. Sales by City/State (Bar Chart)
- Purpose: Compares sales across different geographic locations.
- •Insight: Identifies high-performing regions to target in marketing or logistics.
- 4. Top 5 Products by Sales (Horizontal Bar Chart)
 - Purpose: Ranks products based on their total sales volume.
 - Insight: Highlights your bestsellers and potential for bundling or restocking.
- 5. Customer Purchase Frequency (Donut Chart)
 - Purpose: Shows the frequency of purchases by customers.
 - Insight: Helps segment loyal vs one-time buyers, great for CRM efforts.

Sales Data



Dashboard:





Benefits of the Dashboard

- Presents complex sales data in a simple, visual format
- Requires no coding knowledge to use—just upload an Excel file
- Combines the power of Excel with the interactivity of web tech
- Customizable for any company's dataset
- Aesthetic and professional design ideal for business reporting

CONCLUSION

This project showcases how traditional tools like Excel can be transformed into modern, interactive dashboards with the help of web technologies. With a seamless workflow—from Excel data creation to dynamic visualization—this dashboard offers a practical, easy-to-use solution for sales analysis and reporting.

It not only demonstrates technical skill in HTML, CSS3, JavaScript, and Plotly.js but also underlines the continued relevance and importance of Excel in data-driven projects.