



SALES DATA ANALYSIS

SALES DATA ANALYSIS INVOLVES EXAMINING AND INTERPRETING SALES DATA TO IDENTIFY TRENDS, OPTIMIZE STRATEGIES, AND IMPROVE BUSINESS DECISIONS, ULTIMATELY ENHANCING PROFITABILITY AND COMPETITIVENESS.

AGENDA

- 1. INTRODUCTION
- 2. OBJECTIVES
- 3. TARGET DATA
- 4. ANALYTICAL METHODS
 - **5. PRIMARY GOALS**
 - 6. SKILLS REQUIRED
 - 7. TARGET DATA
 - 8. CONCLUSION & DEADLINE



INTRODUCTION

Sales data analysis is essential for enhancing business strategies and driving growth. By examining sales trends and customer behaviors, we gain insights to improve performance and make datadriven decisions. This presentation covers our objectives, methodologies, key findings, and actionable recommendations to optimize sales and achieve sustained success.





OBJECTIVES



Identify key sales trends



Understand customer behaviour



Evaluate sales performance



Improve decision making ability







TARGET DATA



Customer Data: Demographics, purchase history.



Product Data: Product categories, sales volume.





Sales Data: Sales figures, revenue, profit margins.



Geographic Data: Regional sales Performance.



ANALYTICAL METHODS

Descriptive Analysis: Summarize historical sales data



Predictive Analysis: Forecast future

sales trends





Diagnostic Analysis: Identify reasons for sales trends



Prescriptive Analysis: Recommend strategies for improvement



PRIMARY GOALS

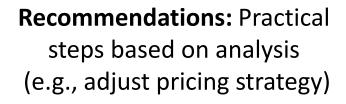


Short-term Goals: Immediate actions to improve sales (e.g., targeted marketing campaigns)



Long-term Goals: Strategic initiatives for sustained growth (e.g., market expansion)









SKILLS REQUIRED



Python: Python is used in data analytics to efficiently handle data extraction, transformation, and analysis, and to build machine learning models for insights and predictions.



NumPy (Numerical Python):

The cornerstone for numerical computing in Python. Provides efficient arrays, linear algebra operations, and mathematical functions. Essential for handling numerical data and computations.



Pandas: Built on top of NumPy, it offers high-performance, easy-to-use data structures like Series (one-dimensional) and Data-Frames (two-dimensional labeled data) for data manipulation, cleaning, analysis, and time series handling.



SKILLS REQUIRED



Matplotlib: The foundation for various data visualizations.
Creates a wide range of plots, including line charts, bar charts, histograms, scatter plots, and more. Offers customization options for fine-tuning the appearance.



YData-Profiling: YData Profiling is a Python library designed to simplify and accelerate data exploration and analysis, particularly for data scientists and analysts.



SciPy: Open-source Python library used for scientific and technical computing. It is used in Advanced mathematical, scientific, and engineering functions.



SKILLS REQUIRED



PySpark: It is the Interface for Apache Spark in Python, used for big data processing. It is used for Handling large-scale data analysis tasks.



Power BI: Power BI is used for creating interactive data visualizations and dashboards, enabling real-time data monitoring and decision-making. It helps in sharing insights across the organization with easy-to-understand reports.



Excel: Excel is utilized for data manipulation, performing complex calculations, and creating charts and graphs. It's a versatile tool for managing small to medium-sized datasets and conducting preliminary data analysis.



CONCLUSION & DEADLINE



Conclusion: This sales data analysis highlights key trends and insights. Implementing the recommendations will drive growth and improve performance. Continuous monitoring will ensure ongoing success. Thank you.





Project Deadline: The project deadline should be "23/07/2024".







THANKYOU!