

Amazon Sales Analysis

Core Python (DAP) – Data Analysis using Python

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Course: DAP (Data Analysis using Python)

Topic: Amazon Sales Data Analysis

Abstract

This project involves analyzing Amazon sales trends using a dataset provided in the project guidelines. The analysis provides insights into monthly and yearly sales trends, key performance indicators, and regional sales performance. The study applies **Exploratory Data Analysis (EDA)** techniques and visualization tools like **Tableau, Power BI, and Python** to uncover key findings.

Dataset

This project utilizes Amazon Sales Data, which includes order details, revenue, profit, and sales channel information.

Columns:

1. **Order Date** – The date when the order was placed.
 2. **Region** – The geographical location of the sale.
 3. **Item Type** – The category of the product sold.
 4. **Sales Channel** – Online or offline sales.
 5. **Units Sold** – The number of units sold per order.
 6. **Unit Price** – Price per unit.
 7. **Unit Cost** – Cost per unit.
 8. **Total Revenue** – Total income generated from sales.
 9. **Total Cost** – Total expenditure on the sold products.
 10. **Total Profit** – Revenue minus cost.
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Use Cases:

- Analyzing **monthly and yearly sales trends**.
- Identifying **high-profit and low-profit product categories**.

- Understanding **regional sales performance**.
 - Comparing **online vs. offline sales**.
 - Finding **the most profitable product types**.
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System Requirements:

Hardware:

- **Processor:** Intel(R) Core i5 or higher
- **RAM:** 8GB or more
- **Storage:** 100GB free space

Software:

- **Operating System:** Windows 10 / macOS / Linux
 - **Tools:** Python, Tableau, Power BI, Jupyter Notebook
 - **Additional Libraries:** Pandas, NumPy, Matplotlib, Seaborn
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How to Use:

1. Download the dataset from the provided **Google Drive link**.
 2. Extract and clean the data using **Python (Pandas, NumPy)**.
 3. Perform **Exploratory Data Analysis (EDA)** to identify key trends.
 4. Create **visualizations** using **Power BI or Tableau**.
 5. Generate insights and document findings in the final report.
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Conclusion:

This project provides a **comprehensive sales analysis of Amazon's dataset**. The findings offer valuable insights into **sales trends, revenue generation, and regional performance**. The analysis helps businesses optimize their sales strategies, enhance **profit margins**, and make **data-driven decisions**.