Sales Data Analysis using Python

This is a complete beginner-friendly Python Data Analytics project. It analyzes a sample sales dataset using pandas, matplotlib, and seaborn, and provides key business insights and charts.

Project Files

Libraries Used

pip install pandas matplotlib seaborn

Sample Data Preview (Sales.csv)

Features Performed

- Data cleaning: removing duplicates, converting dates
- Created Month column from Date
- Grouped by region, category, product
- Generated graphs:
- Monthly Sales Trend (bar chart)
- Region-wise Sales (bar chart)
- Top 5 Products (bar chart)
- Profit Share by Category (pie chart)
- Exported CSV: monthly_summary.csv

Sample Output: monthly_summary.csv

Key Business Insights

- Electronics generated highest revenue
- Laptop was the best-selling product
- North and South regions had most sales
- Sales peaked in specific months

-	_	

Visuals (Shown on Run)

- Bar chart: Monthly sales trend

- Bar chart: Region-wise sales

- Bar chart: Top 5 products

- Pie chart: Profit share by category

How to Run This Project

- 1. Clone or download this repository
- 2. Ensure Sales.csv is in the same folder
- 3. Run the Python file:

python sales_analysis.py

Author

Keerthi L

Aspiring Data Analyst | Python Learner Email: keerthilingutla11@gmail.com

GitHub: github.com/Keerthi-Lingutla