TITLE PAGE DATA SCIENCE PROJECT

SUBMITTED BY: VIKAS GUPTA

REG. NO.: 12316618

SUBMITTED TO: MS. ASHU(UID:23631)

SUBJECT: INTRODUCTION TO DATA MANAGEMENT

SUBJECT CODE: INT217

IN PARTIAL FULFILMENT FOR REQUIREMENTS OF THE AWARD OF THE DEGREE OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that VIKAS GUPTA bearing Registration no. 12316618 has

completed INT217 project titled, "ECOMMERCE SALES ANALYSIS"

under my guidance and supervision. To the best of my knowledge, the present

work is the result of his/her original development, effort and study.

Signature and Name of the Supervisor

Designation of the Supervisor

School of Computer Science

Lovely Professional University

Phagwara, Punjab.

Date: 15-04-2025

DECLARATION

I, Vikas Gupta, student of Data Science under CSE/IT Discipline at, Lovely

Professional University, Punjab, hereby declare that all the information

furnished in this project report is based on my own intensive work and is

genuine.

Date: 12-04-2025

Registration No. 12316618

Name of the student : Vikas Gupta

ACKNOWLEDGEMENT

I would like to express my sincere gratitude to all those who supported and guided me throughout the completion of this project. First and foremost, I extend my heartfelt thanks to my project guide, I would like to express my sincere gratitude to all those who supported and guided me throughout the completion of this project. First and foremost, I extend my heartfelt thanks to my project guide, Ms. Ashu, for their invaluable support, guidance, and encouragement at every stage of this project.

I am also thankful to the faculty of the CSE, Lovely Professional University, for providing me with the necessary resources and knowledge to carry out this work effectively. Their insights and feedback played a vital role in shaping this report.

I am deeply appreciative of the valuable data and resources provided, which were essential for the analysis and interpretation presented in this project.

Finally, I am grateful to my family and friends for their constant encouragement and moral support throughout the duration of this work.

Name: Vikas Gupta

Reg. NO: 12316618

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INTRODUCTION

This project aims to analyze monthly sales and profit data to understand the financial performance of a business over a specific period. By evaluating trends in sales and profit, the report provides insights that can help in making informed business decisions. The dataset includes transactional information such as salespersons, countries, product types, order dates,

PROBLEM STATEMENT:

Understanding monthly performance in terms of sales and profit is crucial for any business. Without a clear analysis, it becomes difficult to identify growth patterns, profitable periods, or areas needing improvement.

OBJECTIVE:

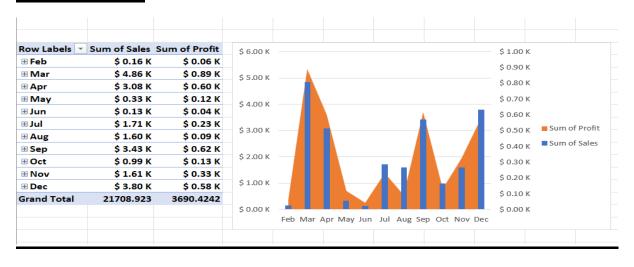
SOURCE OF THE DATASET:

https://docs.google.com/spreadsheets/d/1L6aBX0uNlzKiJb7JHdkNUile18s9Cl4r/edit ?pli=1&gid=1589100670#gid=1589100670

OBJECTIVES:

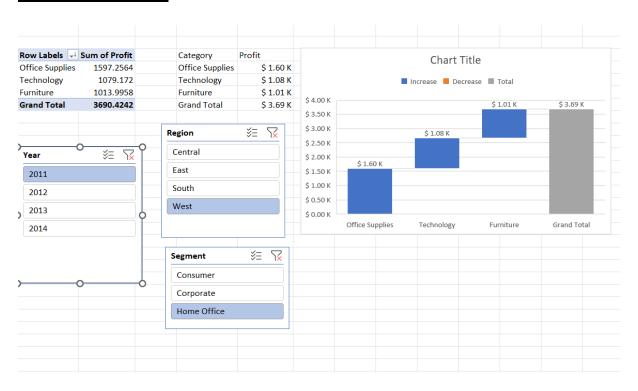
SALES AND PROFIT ANALYSIS

combo chart



CATEGORY WISE PROFIT

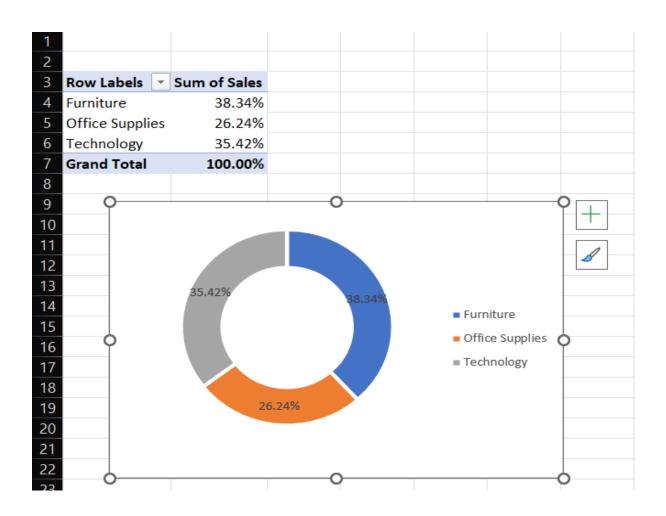
Waerfall chart



KPI YOY

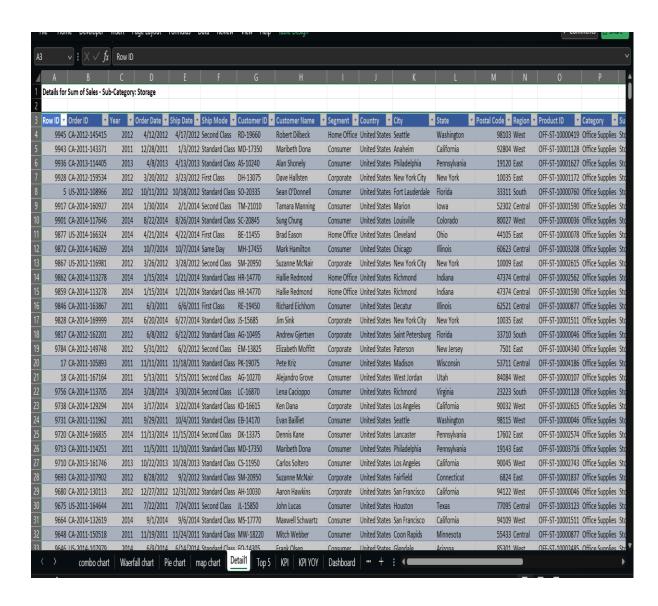
1					
2					
3 Row Labe	els 🔻 Sum of Sales	Sum of Profit	Sum of Quantity	Count of Quarters (Order Date)	Sum of Profit Margin
4 2011	21708.923	3690.4242	411	104	0.169995729
5 2012	20478.852	2774.0686	338	87	0.135460162
6 2013	37943.414	3696.9703	551	147	0.097433781
7 2014	56590.588	6368.9519	859	233	0.112544367
8					
9					
10					
11	▲ 49.14%	▲72.27%	▲ 55.90%	▲58.50%	▲ 15.51%
12					

Pie chart CATEGORY WISE SALES SHARE



KPI

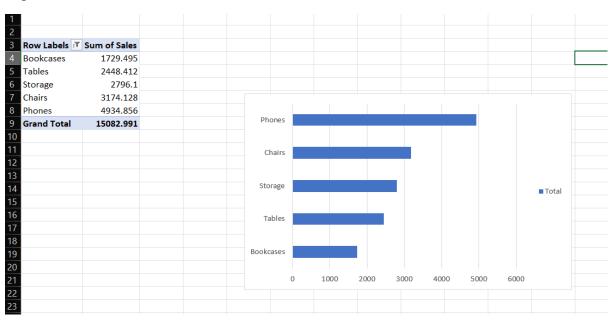
Feb	157.006	Feb	62.6645	Feb	16	Feb	5	Feb	0.3991216
Mar	4855.512	Mar	891.342	Mar	28	Mar	6	Mar	0.18357322
Apr	3083.024	Apr	600,2562	Apr	49	Apr	13	Apr	0.19469721
May	334.696	May	119.455	May	29	May	5	May	0.35690596
Jun	133.128	Jun	41.4336	Jun	9	Jun	2	Jun	0.31123129
Jul	1712.839	Jul	229.0164	Jul	67	Jul	16	Jul	0.13370573
Aug	1601.04	Aug	90.6744	Aug	25	Aug	5	Aug	0.05663468
Sep	3430.13	Sep	616.8493	Sep	39	Sep	12	Sep	0.1798326
Oct	992.82	Oct	130.8334	Oct	37	Oct	8	Oct	0.13177957
Nov	1610.27	Nov	326.1524	Nov	51	Nov	14	Nov	0.20254516
Dec	3798.458	Dec	581.747	Dec	61	Dec	18	Dec	0.15315346
Grand Total	21708.923	Grand Total	3690.4242	Grand Total	411	Grand Total	104	Grand Total	0.16999572
	*************		***************************************		# 37873		# 9994		12.479



Mapchart

2			
Row Labels 🕝	Sum of Sales	State	Sales
4 Arizona	448.824	Arizona	\$ 0.45 K
California	15332.955	California	\$ 15.33 K
Colorado	14.576	Colorado	\$ 0.01 K
Montana	6.096	Montana	\$ 0.01 K
Nevada	495.214	Nevada	\$ 0.50 K
New Mexico	302.376	New Mexico	\$ 0.30 K
Utah	347.968	Utah	\$ 0.35 K
1 Washington	4760.914	Washington	\$ 4.76 K
2 Grand Total	21708.923	Grand Total	#REF!
3			O #RFF!
5 6 3			Sales
7			\$ 15.33 K
9 0 1 1 2 2			\$ 0.00 K
9 0 1 2 2 3 4			\$ 0.00 K
9 0 1 2 2 3 4 5 5			\$ 0.00 K
8 9 0 1 1 2 3 4 5 6 6			\$ 0.00 K

Top 5 Sales



DASHBOARD:



CONCLUSION:

The data analysis indicates that January was the most profitable month. However, there is a noticeable decline in both sales and profit in the following months. This suggests that further

investigation is needed to understand the causes and implement strategies to stabilize or improve performance in other months.

FUTURE SCOPE:

Include more months or a full year's data for better trend analysis.

Analyze category-wise or region-wise sales and profits.

Use forecasting tools to predict future sales and profits.

Integrate seasonal and marketing campaign data for deeper insights.

REFERENCES:

Internal business records

Microsoft Excel for data analysis

LINKEDIN:

https://www.linkedin.com/posts/vikas-gupta-3b8759298_exceldashboard-dataanalytics-ecommerceanalysis-activity-7317986873392472065-h7Ro?utm_source=social_share_send&utm_medium=member_desktop_web&rcm=ACoAAEgDp_wBkM2sLQaAK0TykKaDkV9fqOOE6fA