

AI-POWERED DATA ANALYSIS PROMPTS



ASSIGNMENT # 03

MADE BY MANAHIL NADEEM

**DESIGNING AI PROMPTS TO
SUMMARIZE, ANALYZE, AND
EXTRACT INSIGHTS FROM
DATASETS.**



TITLE:

CONTENT:

CREATE AI PROMPTS THAT HELP:

SUMMARIZE DATASETS

IDENTIFY TRENDS

GENERATE ACTIONABLE INSIGHTS

VISUALIZE DATA

COMPARE GROUPS OR REGIONS



TITLE: 📌 SAMPLE PROMPTS

CONTENT (BULLET FORMAT):

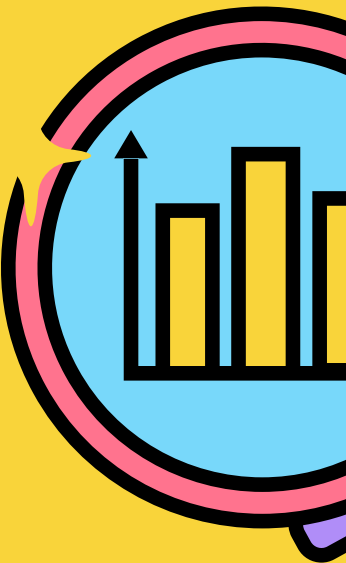
“ANALYZE THIS DATASET AND PROVIDE A CONCISE SUMMARY...”

“EXAMINE SALES DATASET AND IDENTIFY TOP 3 PRODUCTS...”

“SUGGEST 3 ACTIONABLE INSIGHTS FROM THIS CUSTOMER DATASET...”

“CREATE A SIMPLE SUMMARY VISUALIZATION OF THIS DATASET...”

“COMPARE SALES PERFORMANCE BETWEEN TWO REGIONS...”



KEY BENEFITS / USE CASES

TITLE: 💡 BENEFITS / USE CASES

CONTENT:

- 1. QUICKLY UNDERSTAND DATASET STRUCTURE** 
- 2. IDENTIFY HIGH-PERFORMING PRODUCTS/TRENDS** 
- 3. GENERATE ACTIONABLE BUSINESS INSIGHTS** 
- 4. VISUALIZE DATA FOR BETTER UNDERSTANDING** 
- 5. COMPARE GROUPS FOR STRATEGIC DECISIONS** 



Prompt	Purpose / Use Case
Dataset Summary	Understand dataset structure & quality
Trend Analysis	Identify top performers and patterns
Insight Generation	Extract actionable insights for decision-making
Data Visualization	Present data visually and clearly
Comparative Analysis	Compare different groups or regions



CONCLUSION:

DESIGNING EFFECTIVE AI PROMPTS FOR DATA ANALYSIS HELPS TRANSFORM RAW DATASETS INTO ACTIONABLE INSIGHTS.

BY USING PROMPTS FOR SUMMARIZATION, TREND IDENTIFICATION, INSIGHT GENERATION, VISUALIZATION , AND COMPARISON, AI BECOMES A POWERFUL ASSISTANT FOR DECISION-MAKING AND STRATEGIC PLANNING.

PROPER PROMPT DESIGN NOT ONLY SAVES TIME BUT ALSO IMPROVES ACCURACY, CLARITY, AND THE OVERALL VALUE OF DATA-DRIVEN INSIGHTS.

THANK YOU

