

# **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

Dataset Summary

Trend Analysis

Insight Generation

Data Visualization

Comparative Analysis

## Purpose / Use Case

Understand dataset structure & quality

Identify top performers and patterns

Extract actionable insights for decision-making

Present data visually and clearly

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

