# Smartphone Sales Data Analysis Task

## Dataset Description

The dataset contains information on 2000 smartphones. Each row represents a smartphone with the following attributes:  
- Phone\_ID: Unique identifier for the phone  
- Brand: Manufacturer name  
- RAM\_GB: RAM size in GB  
- Storage\_GB: Storage capacity in GB  
- Screen\_Size: Screen size in inches  
- Price\_USD: Price in US dollars  
- Battery\_mAh: Battery capacity in mAh  
- OS: Operating system (Android or iOS)  
- Rating: User rating (1 to 5)  
- Quantity\_Sold: Number of units sold  
- Sales\_Revenue: Revenue from sales  
- Profit: Profit made from the phone

## Required KPIs

- Total Sales Revenue: Sum of Sales\_Revenue  
- Total Profit: Sum of Profit  
- Number of units sold per Brand  
- Average price per Brand  
- Top-rated phone  
- Average rating per OS  
- Most profitable phones based on sales  
- Average profit per unit sold  
- Comparison of Android vs iOS in terms of revenue, profit, and sales

## Analytical Questions to Answer Using Python

1. Which brand sold the most phones?  
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2. Which brand made the most profit?.  
  
3. Is there a relationship between RAM (RAM\_GB) and sales (Quantity\_Sold)?  
 - Use a scatter plot or correlation analysis.  
  
4. Does battery size (Battery\_mAh) affect sales?  
  
  
5. Which OS has the higher average rating – Android or iOS?  
   
  
6. Do higher-priced phones sell more?