Meriskill Virtual Data Analysis Internship

Day 2 Task: Profitability Calculation

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**Objective** 

The objective of this analysis is to assess the financial performance of various marketing

campaigns by calculating profitability metrics. Specifically, the task involved computing the

total profit and user acquisition by campaign, then deriving the average profitability per user.

Methodology

Tools Used:

Python (Pandas, Matplotlib) for data manipulation, profitability calculation and visualization.

Excel for charting and additional data validation.

Steps Followed:

1. Calculated Profit per transaction using:

**Profit** = (**Product Price** – **Product Cost**) \* **Order Quantity** 

2. Aggregated total profit and number of unique users acquired by *AcquisitionSource* 

3. Computed average profitability per user:

**Profitability per User = Total Profit / Number of User Acquired** 

4. Analyzed the resulting profitability data to identify high performing campaigns and

outliers.

5. Created visualizations for clear presentation of trends and comparative performance.

# **Results**

AcquisitionSource	Total_Profit (\$)	Users_Acquired	Profitability_per_User
			(\$)
Google-ads	8328057.02	16658	499.94
Meta-ads	1079291.41	4731	228.13
Yt-Campaign	1039928.37	4756	218.66

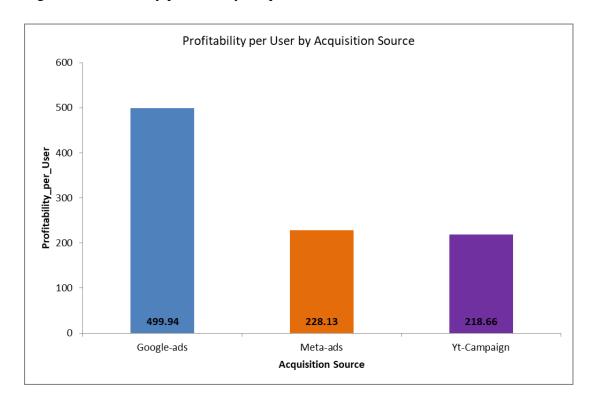
# Top campaign by profitability per user: Google-ads

### **Notable Observation:**

Google-ads campaign outperformed the others by over 100% in profitability per user, suggesting efficient targeting and conversion.

## Visualization

Figure 1: Profitability per User by Acquisition Source



# **Conclusion**

The profitability analysis showed key insights into the financial effectiveness of each marketing campaign. Meta-ads and YouTube(Yt)-Campaign both underperformed in profitability, compared to Google-ads. Google-ads campaign profitability indicates efficient customer acquisition and transaction margins.

Python Code Notebook File:

https://github.com/pelztheanalyst/Meriskill-

Internship/blob/main/Day%202/Podha\_Day\_2\_Profitability\_Calculation.ipynb