# **Business Requirements Document (BRD)**

# **Meta Ad Performance Analysis**

## **Business Objective**

The business needs a **performance tracking report** for advertising campaigns running on **Facebook and Instagram**.

The report will provide visibility into campaign reach, engagement, conversions, and budget utilization.

This will enable the marketing team to:

- Identify the most effective platform (Facebook vs Instagram).
- Track campaign ROI and optimize budget allocation.
- Understand audience engagement patterns.

# **Scope of the Report**

- In Scope:
  - o Campaigns running on Facebook and Instagram only.
- Out of Scope:
  - o Other platforms (Messenger, Audience Network).
  - o Organic engagement (only paid ads will be included).

#### **KPIs & Definitions**

KPI	Definition	Formula	Example Use
Impressions	Number of times ads were displayed.	Count of event_type = Impression	Measure reach
Clicks	Number of times users clicked ads.	Count of event_type = Click	Measure engagement intent
Shares	Number of times ads were shared.	Count of event_type = Share	Viral engagement
Comments	Number of user comments on ads.	Count of event_type = Comment	User sentiment & feedback

KPI	Definition	Formula	Example Use
Purchases	Number of purchases made after seeing ads.	Count of event_type = Purchase	Conversions
Engagements	Total interactions (Clicks + Shares + Comments). % of impressions that	Clicks + Shares + Comments	Engagement volume
CTR (Click Through Rate)	resulted in clicks. % of impressions that	(Clicks ÷ Impressions) × 100	Ad effectiveness
Engagement Rate	resulted in engagements. % of clicks that resulted	(Engagements ÷ Impressions) × 100	Overall ad appeal
Conversion Rate	in purchases. % of impressions that	(Purchases ÷ Clicks) × 100	Funnel efficiency
Purchase Rate	resulted in purchases.	(Purchases ÷ Impressions) × 100	Conversion from reach
Total Budget	Total spend allocated to S campaigns.	Gum of campaigns.total_budget	Cost analysis
Avg. Budget per Average budget Total Bud		Total Budget ÷ Campaign	Budget
Campaign	allocation per campaign.	Count	distribution

## **Charts Requirements:**

#### 1. Target Gender – Donut Chart

A **donut chart** will visualize performance split by **target gender** (from the ads table).

- The metric displayed (e.g., Impressions, Clicks, Purchases) will change dynamically via the parameter.
- Purpose: Identify which gender segment contributes most to the selected metric.

## 2. Target Age Group – Bar Chart

A bar chart will show engagement across age groups defined in the ads table.

- Each bar will represent one age group.
- The metric displayed will switch dynamically.
   Purpose: Highlight which age group is most responsive to campaigns.

### 3. Country - Map

A map visualization will display performance by country (from the users table).

- Bubble size or color intensity will represent the selected metric.
- Purpose: Provide a geographic view of campaign reach and engagement.

#### 4. Calendar Month - Calendar Heat Map

A calendar heat map will plot performance at the monthly level, based on the timestamp field in ad\_events.

- Darker shades will indicate higher activity.
- Purpose: Detect seasonal trends, peak ad months, and low-activity periods.

# 5. Weekly Trend – Stacked Column by Ad Type

A **stacked column chart** will display weekly performance trends.

- X-axis → Week number (from the Date Table linked to ad\_events).
- Stacks → Different ad\_type values (from the ads table).
- Y-axis → Selected metric.
- Purpose: Compare ad type contributions over weeks.

# 6. Hourly Trend – Area Chart

An area chart will show activity by hour of day (from ad\_events[time\_of\_day]).

- X-axis  $\rightarrow$  Hour of the day (0–23).
- Y-axis → Selected metric.
- Purpose: Understand user activity patterns throughout the day.

# 7. Ad Type – Matrix

A matrix visualization will show the selected metric across ad types and possibly break down further by platform (Facebook vs Instagram).

- Rows  $\rightarrow$  Ad Types.
- Columns → Platforms or other campaign dimensions.
- Values → Selected metric.
- Purpose: Compare performance across ad formats and platforms side by side.