

Capstone Project // Project Based Learning (PBL) // Data Analytics

# Marketing Analytics Project

Adapted from <u>COOP</u> and updated by [LC] Reina Li Created: Summer 2025 Last updated October 7, 2025



# **Project Overview**

## Scenario

Your cohort is working at a marketing agency. Your client, a telecommunications company activating media across various channels, outsourced their campaign reporting needs to your entire team.

#### Task

Your client needs your expertise to maximize their future strategies for better performance and efficiency by analyzing the data for Spatial/Location, Audience, Creative, and Inventory.

## Action

Your cohort will use the data provided by the client to identify and benchmark performance relative to overall campaign goals, analyze KPIs based on Spatial/Location, Audience, Creative, and Inventory data, identify insights and provide recommendations

## **Final Deliverables**

Your entire cohort will present one cohesive slide deck to the client representatives (your captains), showing visualizations, key findings, insights, and recommendations. Your cohort will submit a one-page report summarizing key findings and final recommendations.



# **Overall Campaign Benchmark Goals**

**Primary Goals** (Performance/Conversion-Focused)

KPI	Benchmark Goal	Purpose
Cost Per Conversion (CPCV)	\$50	Track spend per valuable action.
Click Through Rate (CTR)	10%	Reflect ad relevance and user engagement.
Cost Per Click (CPC)	\$25	Cost-efficiency per user click.
Desktop Conversion Rate	50%	Evaluate how well desktop users are converting.
Smartphone Conversion Rate	50%	Evaluate mobile performance.



# **Overall Campaign Benchmark Goals**

Secondary Goals (Efficiency & Visibility-Focused)

KPI	Benchmark Goal	Purpose
Cost Per Mille (CPM)	\$2,500	General cost per 1,000 impressions.
Viewable CPM (vCPM)	\$5,000	Cost per 1,000 viewed impressions.
Viewability Rate	70%	Measure ad exposure likelihood.



# **Team Structure**

- Fellows will select a role (Spatial, Audience, Creative, Inventory).
- Fellows be placed in teams by role, not by pods.
- In the first few project nights, fellows will work within ROLE groups.
- During the cross-functional night and moving forward, all role groups will collaborate and work together as a cohort to deliver a cohesive presentation.

# **Roles & Responsibilities**

## **Cohort-wide**

- Ensure the dataset is **cleaned once** to create a **single source of truth**. Avoid duplicating efforts by generating multiple cleaned datasets. Teams can then apply filters or views to the master dataset to extract the columns relevant to their tasks.
- Distribute responsibilities equitably and define clear workflows. Set communication expectations within and between teams to promote transparency and collaboration cohort-wide.
- Maintain timely communication with captains to address conflicts and proactively ask for project clarification when details are unclear.
- Collaborate with the entire cohort to develop the slide deck and participate as a speaker during the presentation.

# **Roles & Responsibilities (cont'd)**

# **Spatial Analyst**

- Create maps and visualizations to represent spatial data effectively.
- Analyze geographical performance data based on different levels of detail (region, state level, urbanicity) to provide insights and recommendations related to location-based concerns.

## **Audience Analyst**

- Segment and visualize audiences in distinct groups based on demographic (age, gender, education, occupation, income, marital status, family size), psychographic (segment interests), and behavioral factors (active days/times).
- Create 2-4 detailed personas based on KPIs to highlight potential high-performing target audiences.

# **Creative Analyst**

- Identify the top performing creative sizes, messaging, devices, ad formats, and ad positions that align with benchmark goals.
- Evaluate creative performance data to identify patterns, uncover insights, and provide actionable recommendations to inform strategies and support shaping brand messaging, positioning, and brand identity to resonate with target audiences.

# **Inventory Analyst**

- Analyze inventory performance data to identify the top performing ad exchanges, deal types, auction types, and websites suitable for direct contracts, aligned with benchmark goals.
- Examine inventory data to uncover trends and deliver actionable insights and recommendations related to programmatic advertising inventory sources.

# **One-page Report Guidelines**

# Required

#### 1. Executive summary

- a. Background + objective+ business problem
- b. Problem statement (why is this problem worth solving?)

#### 2. Key highlights

- a. 1-2 digestible charts or visualizations
- b. Major metrics and KPIs

#### 3. Key takeaways + next steps

- Solutions and recommendations
- b. Future plan

## Recommended

#### 1. Key Stakeholders

a. Who are the decision makers? Who is impacted by your findings and how?

#### 2. Challenges

 a. Identify forces negatively impacting progression at goal or desired outcome

# **Optional**

#### 1. Header

- A clear and eye-catching title at the top of the page
- b. Include name of your organization

### 2. Appendix

 Additional resources and findings related to your project

