# Website Analytics & Marketing Optimization Report

# 1. Traffic Source Analysis

# **Objective:**

Understand where customers are coming from and identify which channels drive the highest quality traffic.

#### **Use Cases:**

- Analyze search data to shift budget toward engines, campaigns, or keywords with stronger conversion rates.
- Compare user behavior patterns across traffic sources to inform creative and messaging strategy.
- Identify opportunities to eliminate wasted spend or scale high-converting traffic.

# Paid Campaign Tracking (UTM Parameters):

- Paid traffic is tagged with UTM parameters, allowing us to tie website activity back to campaigns.
- Session data (with UTM tags) is linked to order data to measure revenue contribution.

# **Analysis Performed:**

- Selected sessions with IDs between 1000–2000.
- Grouped data by utm content.
- Calculated:
  - Number of unique sessions
  - o Number of unique orders
  - Conversion rate (orders ÷ sessions)
- Sorted results by session volume (descending).

## **Finding:**

This analysis compared campaign performance by utm\_content and revealed how well sessions converted into orders.

#### **CEO Request:**

- Provide a breakdown of sessions by utm source, utm campaign, and referring domain.
- Finding: **gsearch nonbrand** campaign generated the most sessions.

# **CEO Response:**

• Suggested deeper analysis of **gsearch nonbrand** for optimization opportunities.

# 2. Conversion Rate Analysis

# **Marketing Director Request:**

- Calculate conversion rate (CVR) from session to order for **gsearch nonbrand** traffic.
- Threshold for viability:  $CVR \ge 4\%$ .

#### **Result:**

Sessions: 3,895Orders: 112

• Conversion Rate: 2.88%

# **Response:**

- CVR below threshold.
- Recommendation: Reduce bids to avoid overspending.
- Outcome: Analysis prevented unnecessary ad spend.

# **Business Concept: Bid Optimization & Trend Analysis**

- Use conversion rate and revenue per click to guide spend decisions.
- Monitor bid changes to understand effects on volume and cost efficiency.

# **Next Steps (Director):**

- On 2012-04-15, bids for grearch nonbrand were reduced.
- Requested weekly trended session volume to evaluate impact.

#### **Result:**

- Analysis confirmed traffic volume was sensitive to bid changes.
- Director acknowledged balance between maximizing volume and cost efficiency.

# 3. Device-Level Conversion Analysis

# **Director Request:**

• Calculate conversion rates by device type (desktop vs. mobile).

#### **Result:**

Desktop CVR: 3.73%Mobile CVR: 0.96%

# **Response:**

- Decision to increase bids for **desktop traffic** due to stronger performance.
- Follow-up request: Track desktop vs. mobile sessions after bid adjustments.

# **Finding:**

- Desktop sessions increased after the bid adjustment.
- Mobile sessions remained flat or declined slightly.

## **Next Steps:**

- Continue monitoring session volume and conversion rates by device.
- Optimize spend allocation accordingly.

# 4. Top Website Content Analysis

#### **Objective:**

Identify most-viewed pages to prioritize optimization efforts.

#### **Use Cases:**

- Determine most-viewed and entry pages.
- Assess performance of high-traffic pages against business goals.

# **Analysis Performed:**

- Created a temporary table to find the first pageview (min(pageview\_id)) per session.
- Counted distinct sessions for each entry page.

#### Finding:

• **Homepage** accounted for nearly all first pageviews (523 sessions).

# Website Manager Request (Morgan):

- Pull top viewed and entry pages.
- Confirm where users land when entering the site.

#### **Result:**

• Traffic primarily enters via homepage.

# Morgan's Response:

• Homepage is the critical landing point and a top candidate for optimization.

# 5. Landing Page Performance & Testing

# **Objective:**

Evaluate homepage bounce rate and test impact of a new custom landing page.

# **Analysis Performed:**

- Step 1: Find first pageview for each session.
- Step 2: Identify landing page.
- Step 3: Count pageviews to identify bounces.
- Step 4: Summarize sessions, bounces, and bounce rate.

# **Finding:**

• Homepage bounce rate: ~60%

# Manager's Response:

- Bounce rate considered too high.
- A new custom landing page (/lander-1) was created for paid search traffic.

# **Experiment:**

- A/B test between /home and /lander-1.
- Bounce rate analysis performed for the test period.

#### **Result:**

• /lander-1 bounce rate was 5% lower than homepage.

# Manager's Response (Morgan):

- Confirmed success of custom lander.
- Plan: Redirect all non-brand paid traffic to /lander-1.
- Requested follow-up trend analysis in upcoming weeks.

# **Next Steps:**

- Confirm all non-brand paid traffic routes to the new custom lander.
  Monitor bounce rates and analyze long-term trends.
- 3. Identify further testing and optimization opportunities.