Analyzing the efficiency of media companies

Objective: Identify the most effective advertising campaigns in terms of ROMI, reach and spend, conversion, devices, and geographies using PostgreSQL, Debiver, BigQuery, and Looker Studio.



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Data Analyst

Data sources

- facebook_ads_basic_daily
- Google_ads_basic_daily
- ga4_obfuscated_sample_ecommerce

Tables with costs, reach, campaigns, and display dates

Platforms:

- PostgreSQL/BigQuery for processing SQL queries
- Looker Studio for visualization of results

- Calculation of average, minimum and maximum costs by source
- Identify the top 5 dates with the highest ROMI
- Identify the campaign with the highest value per week
- Device analysis
- Determining the longest period of continuous display
- Calculation of conversions
- Identification of activities by geographical indicators

• ROMI:

Peak value - 148.69%.

Reach:

The largest increase for the month - **+4.3M** in the category *Hobbies*

• Display:

Highest continuous display in the parameter *Broad* - **39** days

Campaign of the week:

Expansion with a commercial value of 2.29M

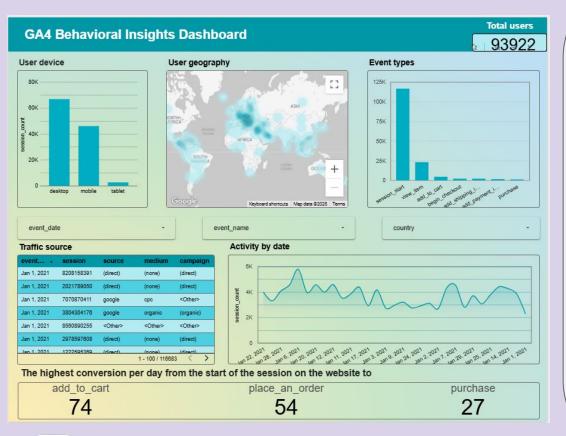
Costs:

Average value - **6.6M**, maximum value - **16.7M**





My Project



- Unique users: 93,922

Devices:

- Desktop: over 65K

- Mobile: ~40K

- Tablet: ~10K

- Most active sessions: January 6, 2021

Geography:

- Most active: North America, Europe, parts of Asia

Conversion actions (maximum per day):

- adding to cart - 74

- checkout - 54

- purchase - 27



My Project

Conclusions on the project

Technical expertise

- Built **2 interactive dashboards** from different sources (marketing + GA4 behavioral data)
- Implemented <u>Looker Studio</u> for visualization, filtering, and structured presentation of results

Key insights

- Desktop is the main channel (>65K users), the mobile segment is also significant (~40K)
- Main markets: North America, Europe, Asia
- The days with the highest ROMI and the campaigns with the highest reach are identified
- In the conversion funnel sagging from add_to_cart to purchase

🚀 Practical value

- Optimization of advertising budgets based on ROMI
- Improving UX for desktop and mobile devices
- Removing barriers in the checkout process
- Setting up correct channel tracking

★ Professional results

- Full cycle of work with data: collection → preparation → visualization → business decisions
- Focus on analytical accuracy, visual clarity and business value

Thank you for your attention!