#### **Data Analysis report:**

# ECOMMERCE ONLINE PLATFORM AND WEBSITE ANALYSIS

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### **01. Introduction**



**Goal of the Report** 



Methodology

#### **Topic**

Ecommerce Online Platform and Website Analysis

#### **Goal of the Report**

- retrieve important factors in platform and websites affecting sales
- provide possible methods to increase users and transactions

## Methodology

Tools: tidyverse, gcookbook, shiny

data:
platform data
cleaned date:
marketing budget

sns data sns platform

website data

page type,
events/promotions

keyword data
search relevance

## 02. Data Analysis



Platform Advertisement Budget and Sales



Social Media Platform Usage Per Year

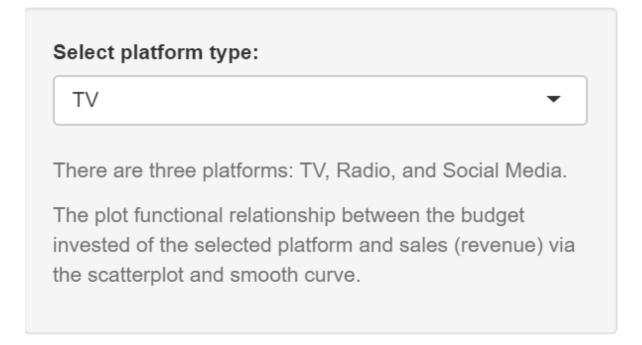


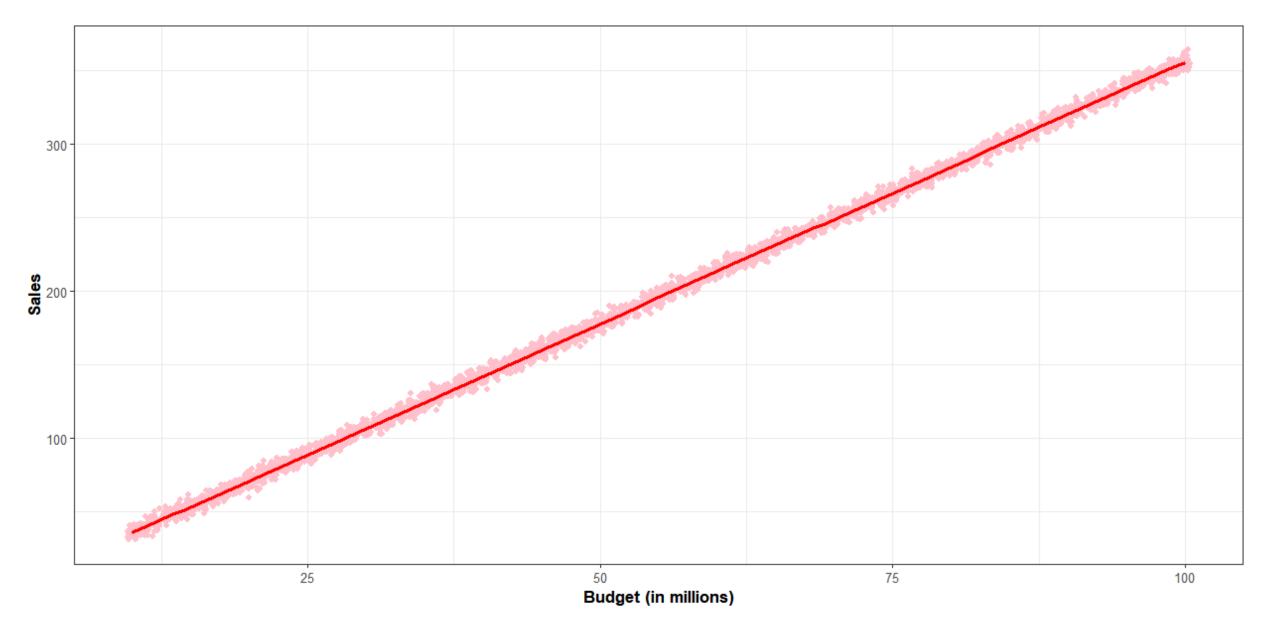
**Website Page Type Frequency, Duration, and Others** 



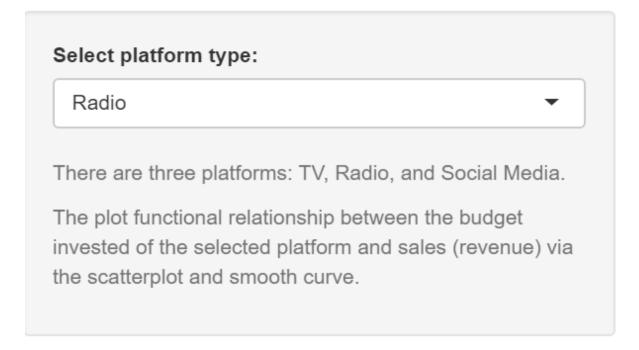
**Category Keyword Search Relevance** 

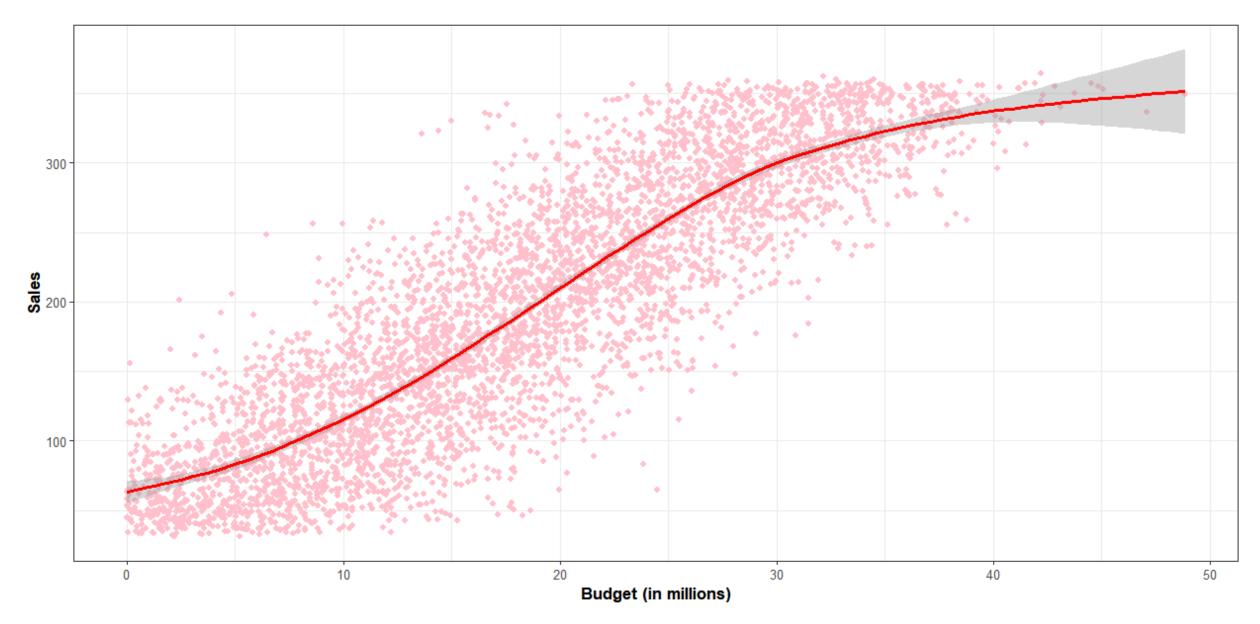
#### Platform Advertisement Budget and Sales





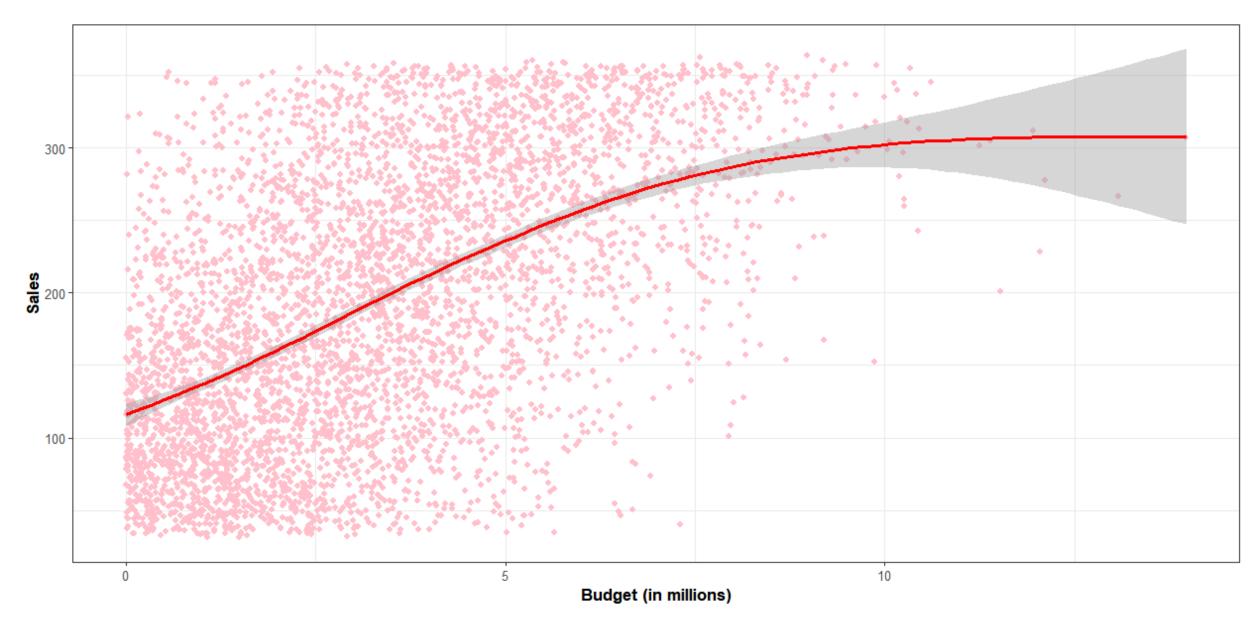
#### Platform Advertisement Budget and Sales



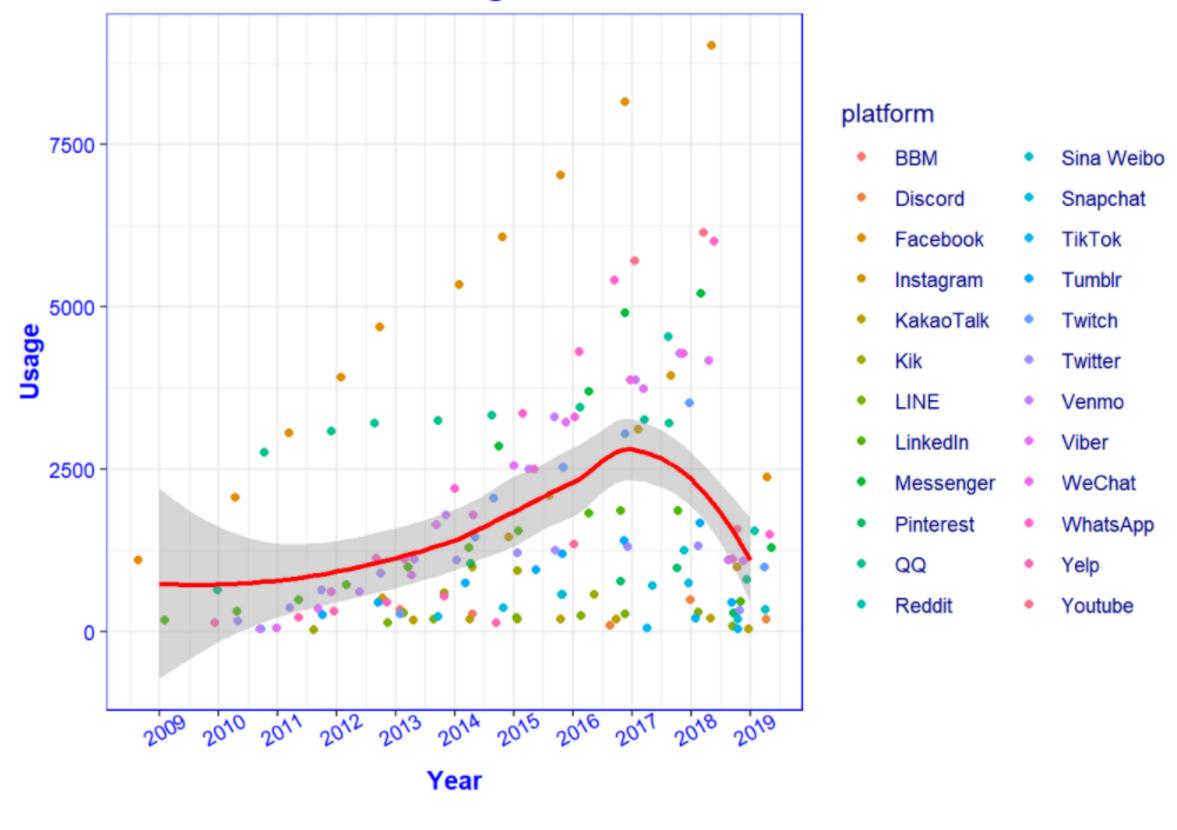


#### Platform Advertisement Budget and Sales

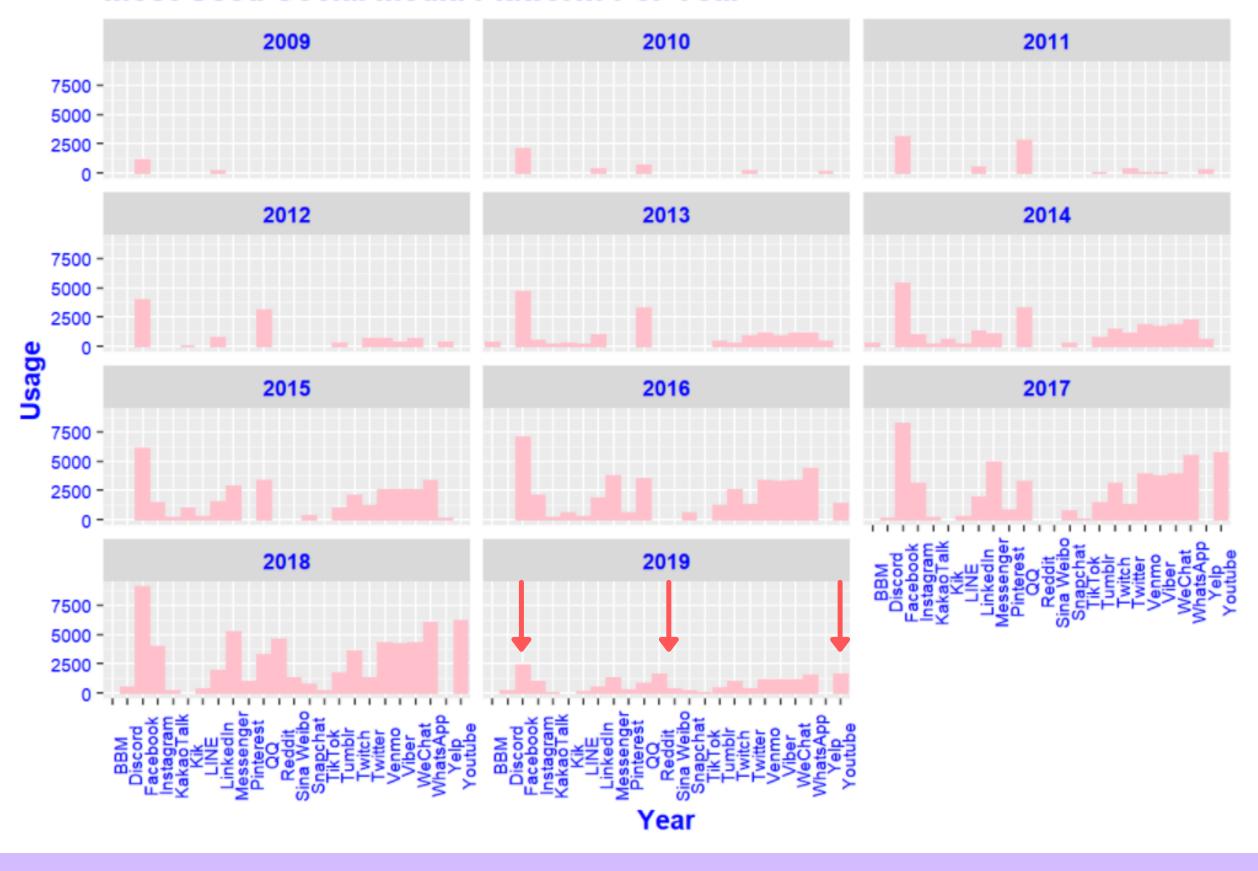
# Select platform type: Social\_Media There are three platforms: TV, Radio, and Social Media. The plot functional relationship between the budget invested of the selected platform and sales (revenue) via the scatterplot and smooth curve.



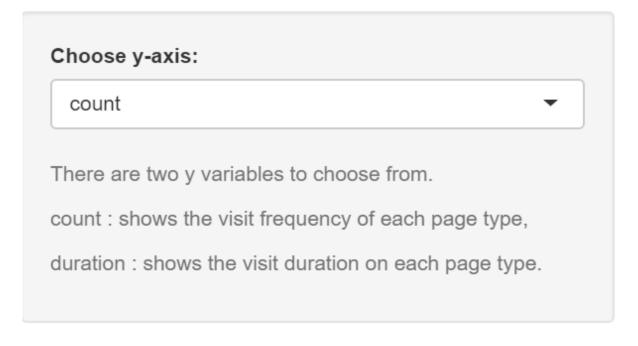
#### Social Media Platform Usage Per Year

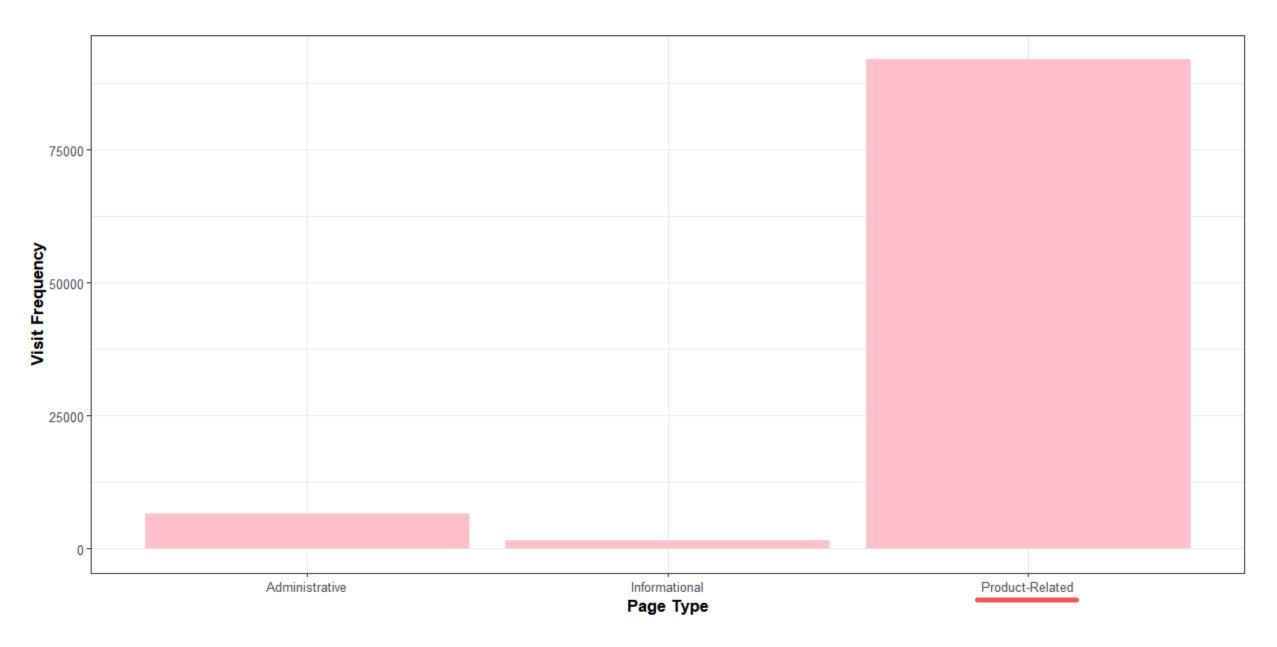


#### **Most Used Social Media Platform Per Year**

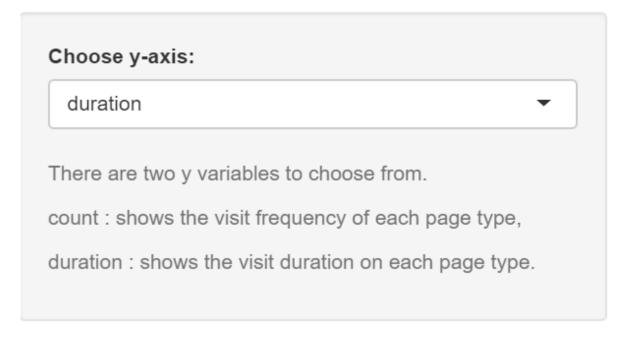


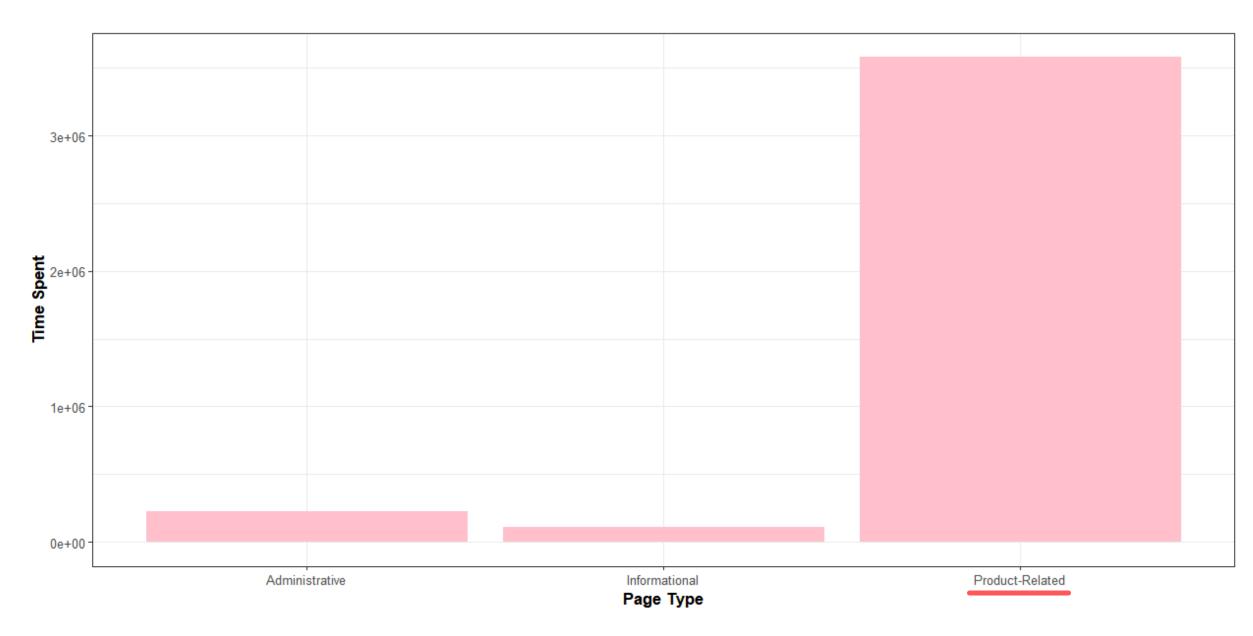
#### Website Page Type Statistics



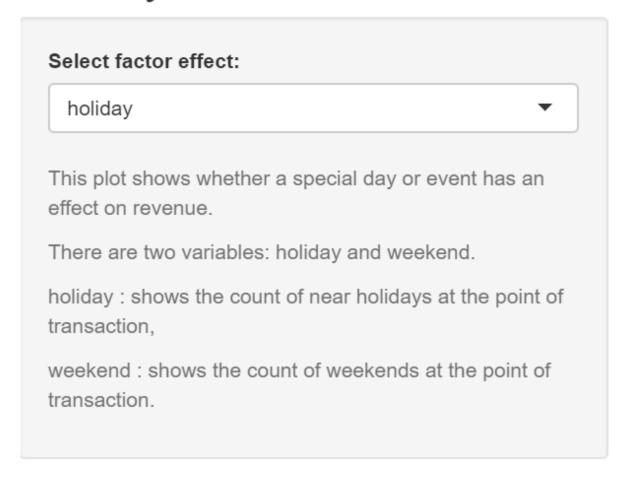


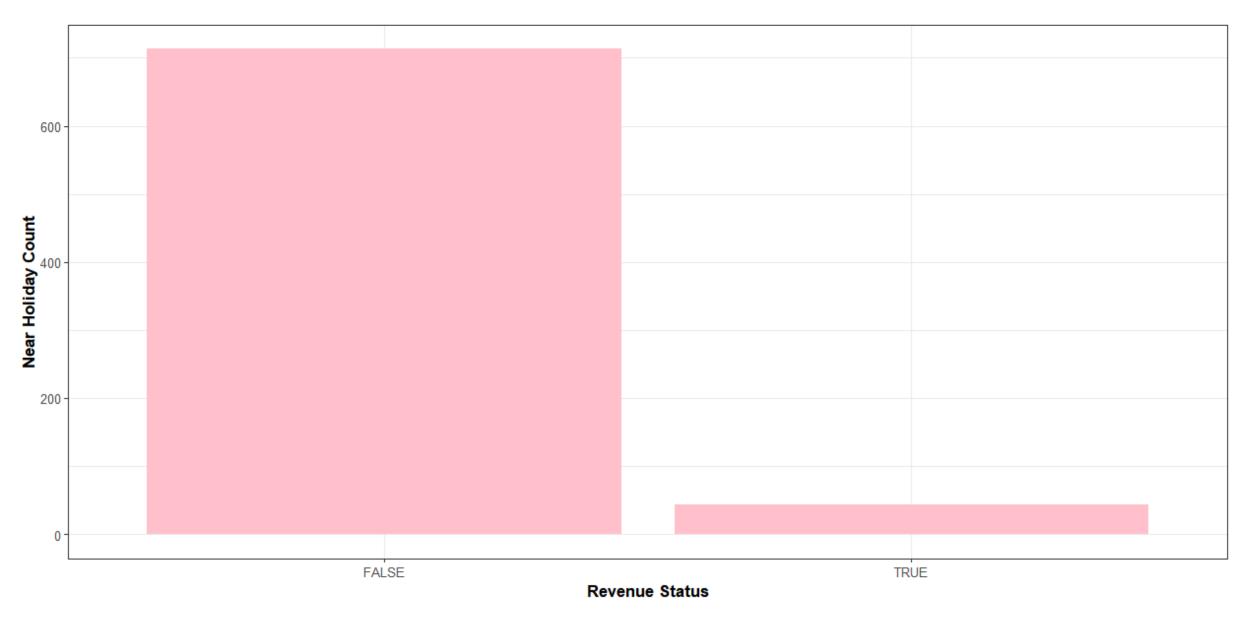
#### Website Page Type Statistics



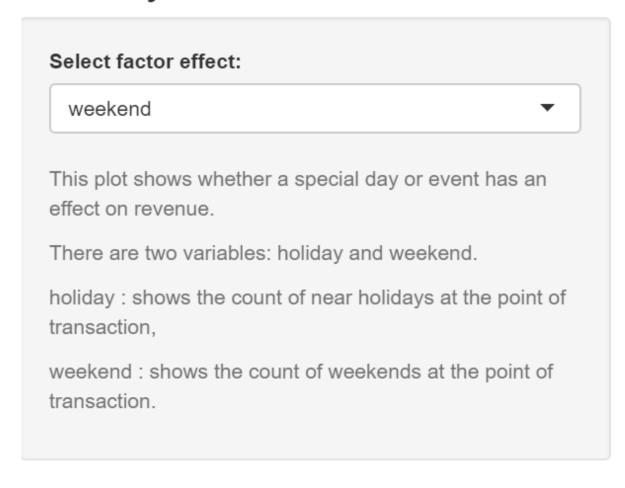


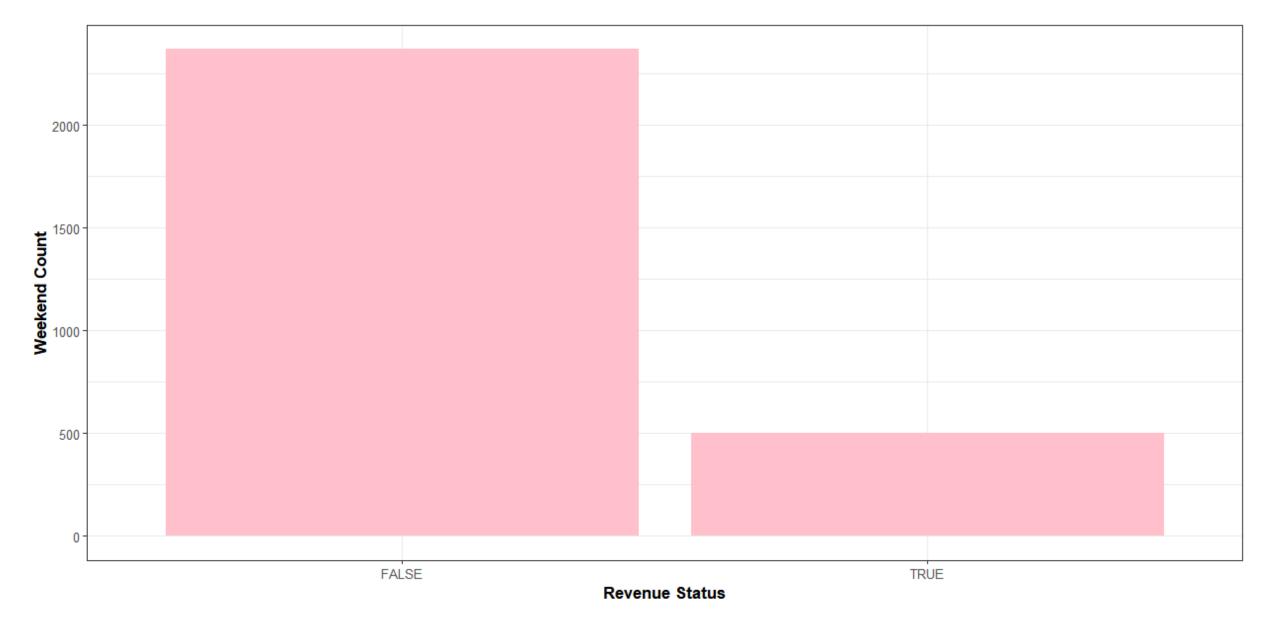
#### Holiday and Weekend Effect on Revenue



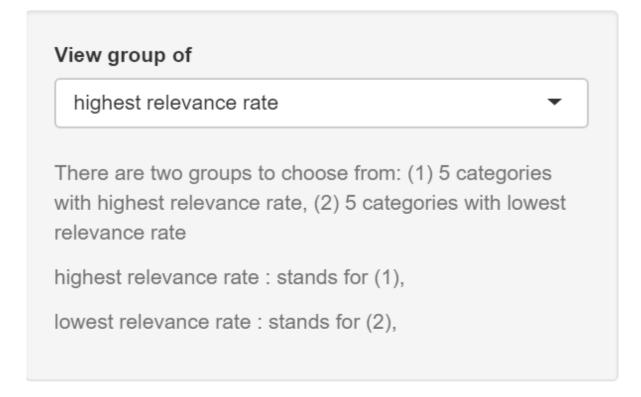


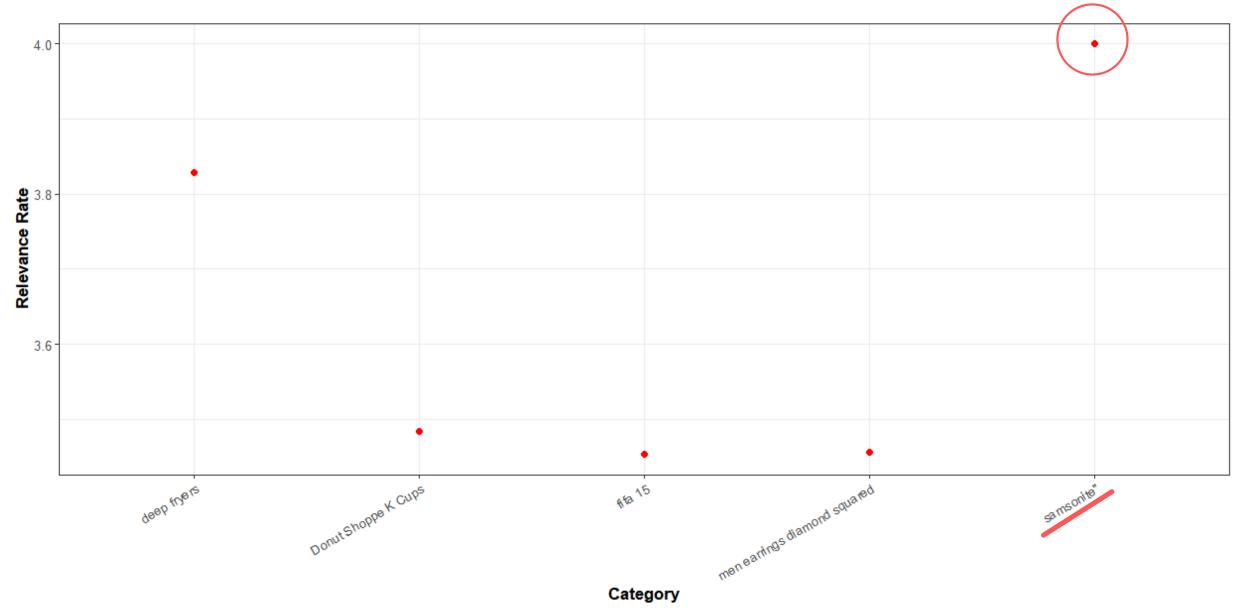
#### Holiday and Weekend Effect on Revenue



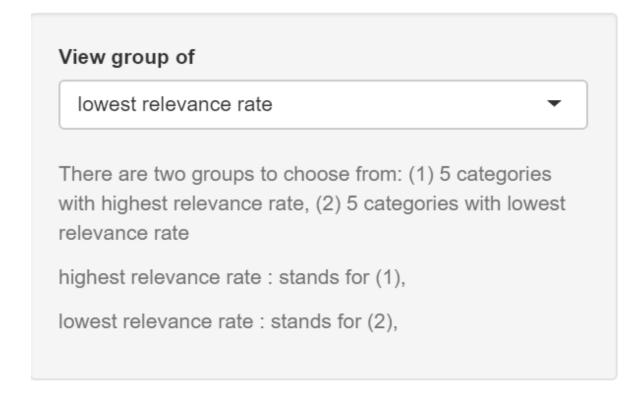


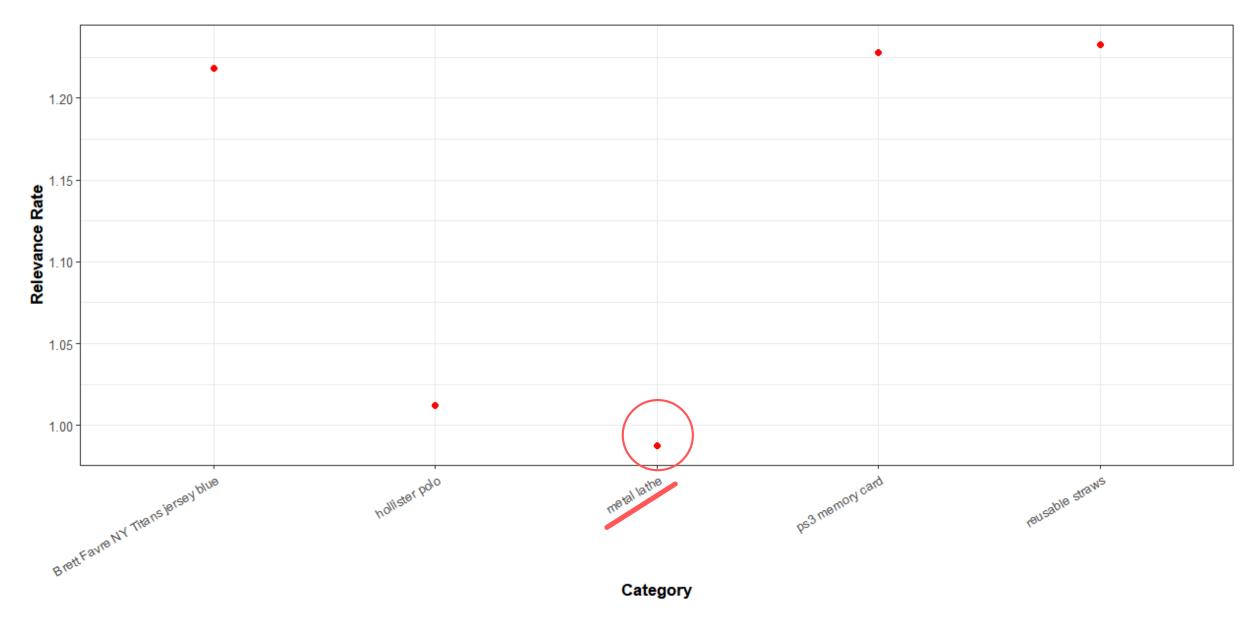
#### Category Keyword Search Relevance





#### Category Keyword Search Relevance





# 03. Conclusion and Recommendation

# Conclusion and Recommendation

Ol

• TV: 80 million

• Radio: 30 million

Social Media: 10 million

02

- Facebook
- Youtube
- Reddit

03

- Product-related pages improvement
- Keyword supplement

## References

#### Datasets:

- Dummy Marketing and Sales Data (https://www.kaggle.com/harrimansaragih/dummy-advertising-and-sales-data?select=Dummy+Data+HSS.csv) -> platform
- Most Used Social Media Platforms
   (https://www.kaggle.com/mathurinache/mostusedsocialmediaplatforms) -> sns
- Online Shoppers Purchasing Intention
   (https://archive.ics.uci.edu/ml/datasets/Online+Shoppers+Purchasing+Intention+Dataset #) -> website
- Ecommerce seach relevance (https://data.world/crowdflower/ecommerce-search-relevance) -> keyword

#### Sites:

- Shopify Business Encyclopedia (https://www.shopify.com/encyclopedia/what-is-ecommerce#:~:text=Ecommerce%2C%2Oalso%2Oknown%2Oas%2Oelectronic,data%2Oto%2Oexecute%2Othese%2Otransactions)
- Ecommerce boom fuels record online competition (https://www.shopify.com/enterprise/the-future-of-ecommerce/omnichannel)