

XYZ Ads Airing Report Analysis

Project Description:

In this Project, we were provided with a dataset having different TV Airing Brands, their product, their category. Dataset includes the network through which Ads are airing, types of network like Cable/Broadcast and the show name also on which Ads got aired. You can also see the data of Dayparts, Time zone and the time & date at which Ads got aired. IT also includes other data like Pod Position (the lesser the valuable), duration for which Ads aired on screen, Equivalent sales &, total amount spent on the Ads aired.

As a Data Analyst in XYZ Ads Airing Company we need to analyze the brands and their advertisement strategies and most favorable brand of ads and highest share of brands.

Approach:

For this project first I go through the dataset to understand all the columns then I check for the missing or duplicate values and decide whether to drop the column or keep it. Secondly I read the problem statement and try to answer it using EDA in Excel using formulae and pivot table.

Tech-Stack Used:

In this project I used MS Excel 2016 for both analysis and manipulating the data.

Insights:

During this project I learned new formulae and function (i.e. if function) I also learned how to do competitive analysis and using both pivot table as well as function to do my job. I learned proper use of bar graph and stack graph and how to use graph if there are so many variables.

Tasks:

A. What is Pod Position? Does the Pod position number affect the amount spent on Ads for a specific period of time by a company? (Explain in Details with examples from the dataset provided)

An ad pod is a group of ads that are sequenced together to be played back-to-back within a single ad break/placement, similar to ad breaks in traditional linear TV. Ad pods give publishers the opportunity to maximize revenue from each ad break and give advertisers more control over ad positioning.

They allow publishers to return multiple ads from a single ad request, and then those ads are played in sequence.

Yes, Pod position number affect the amount spent on Ads for a specific period of time by a company, As we see in below fig the amount spend on initial pod position were higher than the amount spend on later pod position.

Example: If we see amount spend in Honda Cars according to pod position we see initially up to 10 position amount spend increase but after that it decreases.

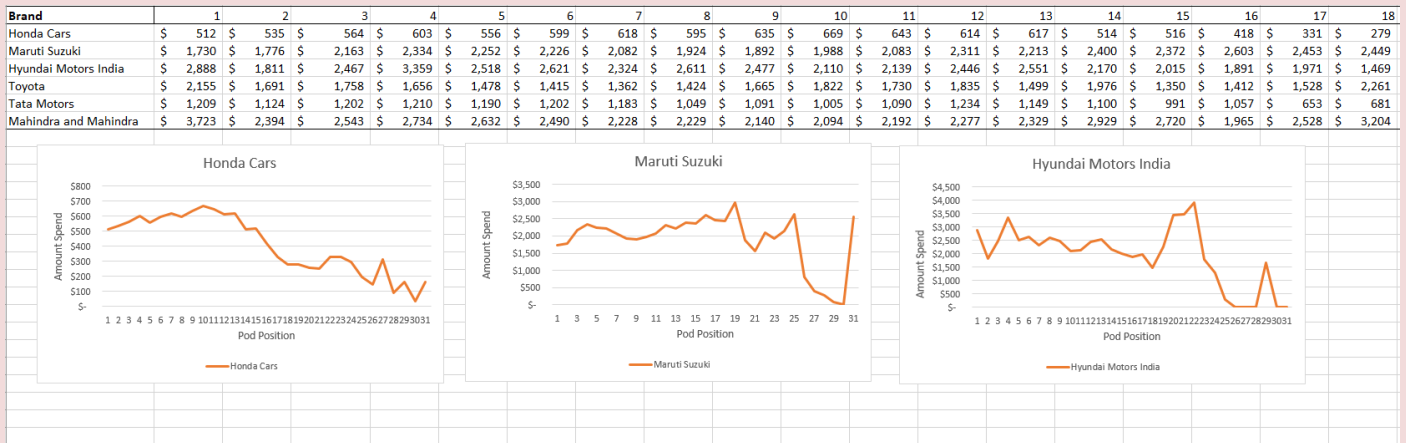


Fig 1: Amount Spend vs Pod Position

B. What is the share of various brands in TV airings and how has it changed from Q1 to Q4 in 2021?

For this Problem statement first I created a new column name Quarters in which there are 4 quarters based on month of Ad Airing. After that I used pivot table and find out percentage share of various brands in TV airings both in case of sum of Amount Spending and Ads Count quarter wise from Q1 to Q4.

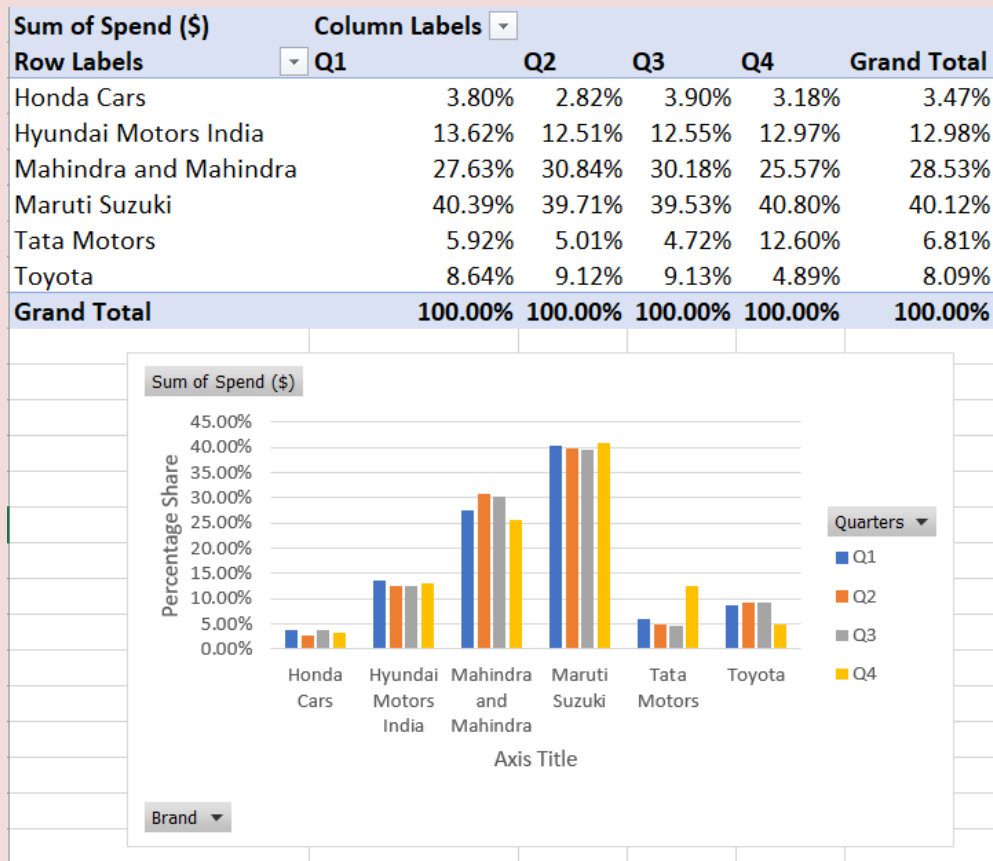


Fig 2: Percentage Share of Amount spend on ads for different brands quarters wise

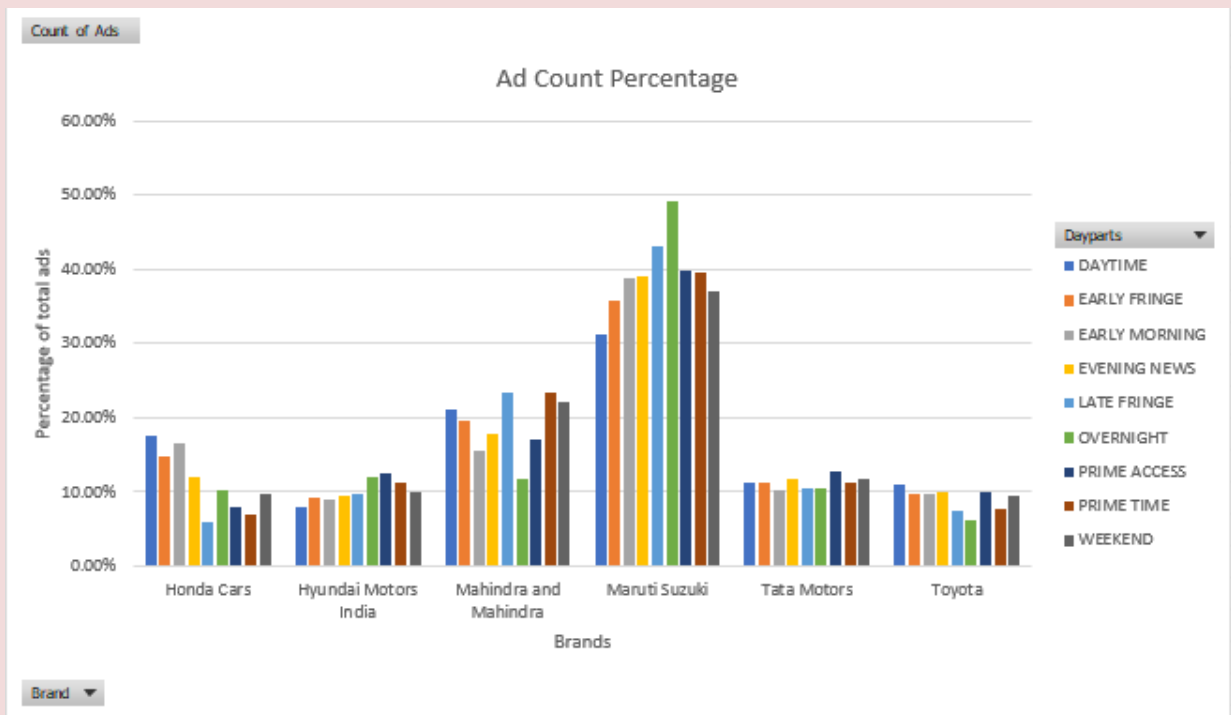


Fig 5: Ad counts for different brand

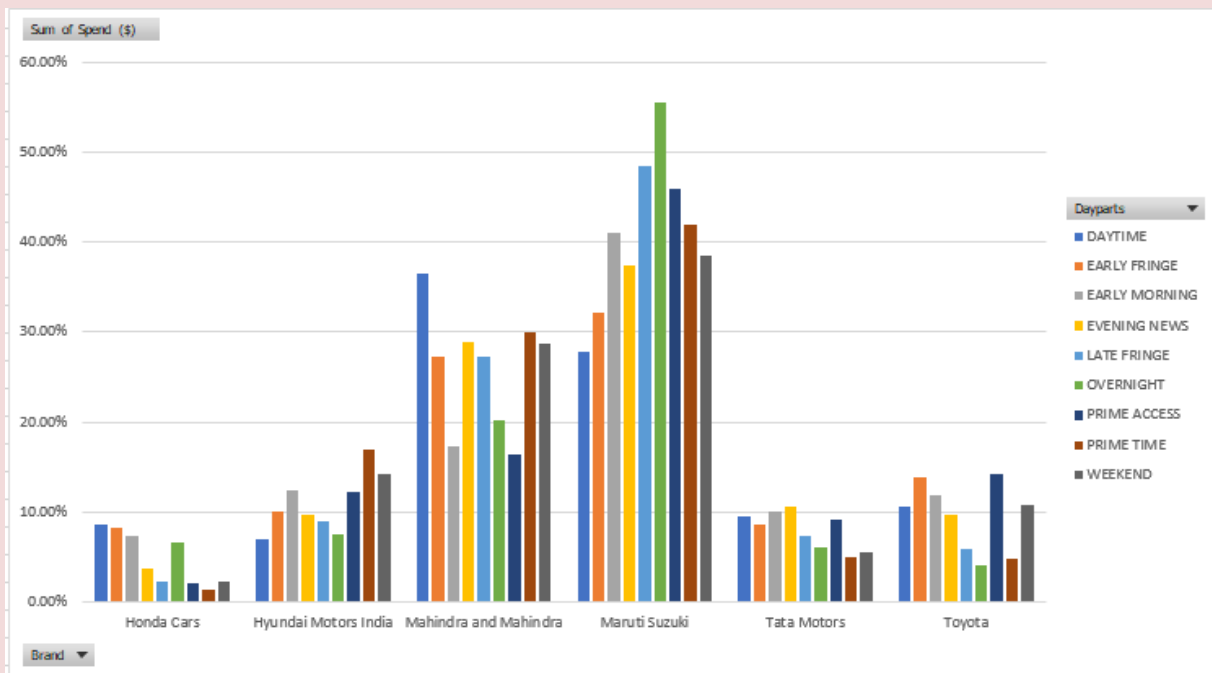


Fig 6: Percentage of sum of spending for different brand

D. Mahindra and Mahindra wants to run a digital ad campaign to complement its existing TV ads in Q1 of 2022. Based on the data from 2021, suggest a media plan to the CMO of Mahindra and Mahindra. Which audience should they target?

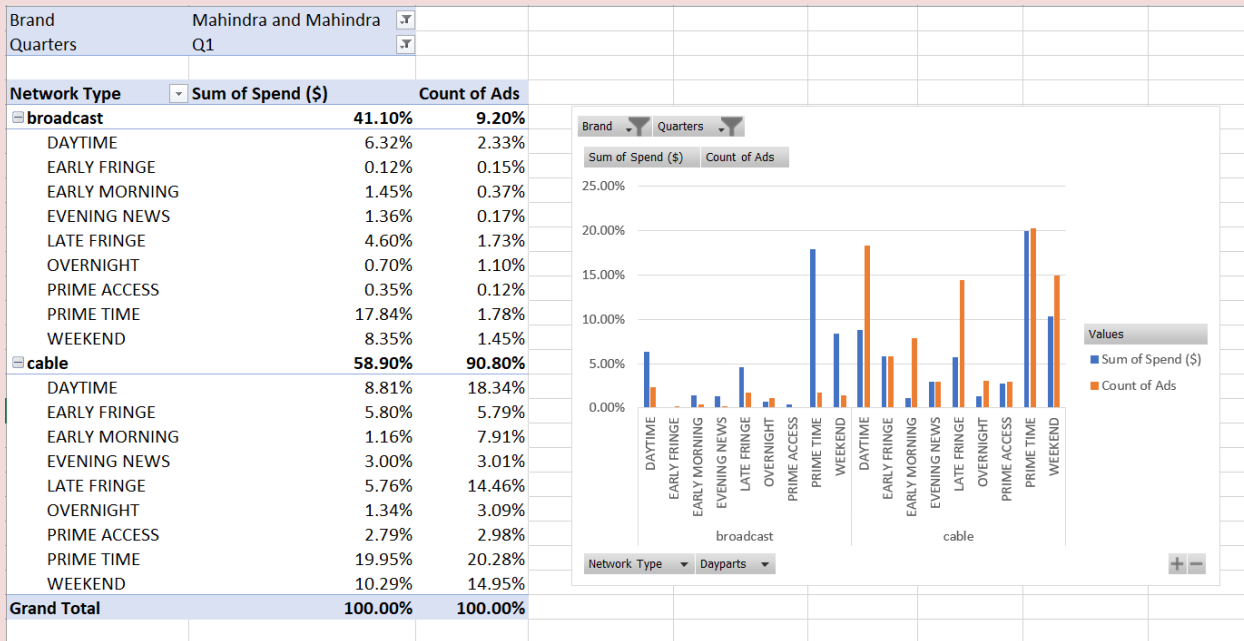


Fig 7: Mahindra and Mahindra Quarter 1 Spending and Ads count Percentage

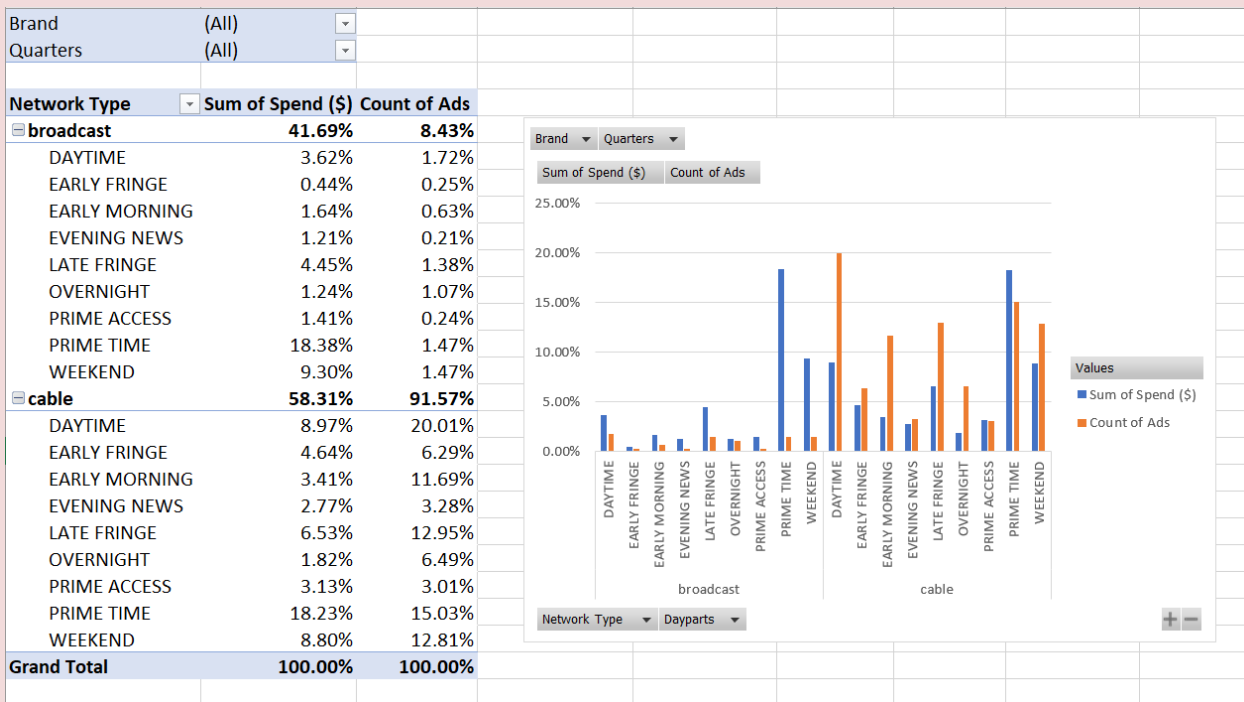


Fig 7: All Brand All Quarters Spending and Ads count Percentage

Summary:

- From Above Figure we can see that most company invest more in Cable network ads as the ad count is also very high.
- If we look at fig 6 we can see even though we are spending much in prime time and weekend in broadcasting we are not getting that much ads.
- If we invest more in cable network to improve the business.

Additional Insight:

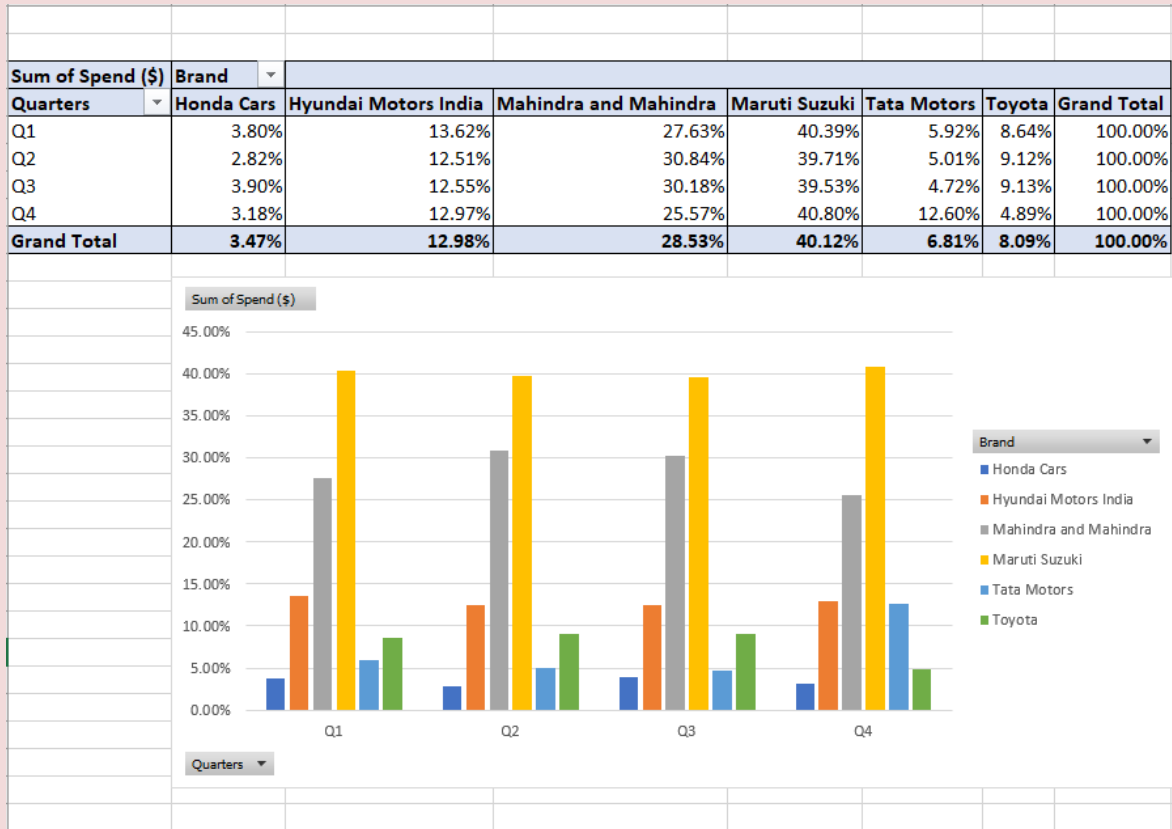


Fig 8: Quarter wise Spending of various car brand

Results:

- Ad Pod position varies with the amount spending, i.e. initially the amount spend increases for first 10 pod position after that it get decreases.
- Maruti Suzuki has the highest share in TV airing followed by Mahindra and Mahindra.
- Companies spend more on Cable network ads as it is cheaper compared to broadcasting and has more reach.
- Company choose to invest more in prime time and weekends ads airing.

Dataset:

https://docs.google.com/spreadsheets/d/122nn1uCNCm2FjIJ1qE65hD_ohFA0a6Ch/edit?usp=sharing&ouid=115977276322304781744&rtpof=true&sd=true