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Impact of Car

Features

Akash Duwedi

Welcome Project Overview About Project & Tools Approach Task 1 Task 2 TASK 3 TASK 4 TASK 5

Project Description:

Overview of the project and its purpose: - The dataset contains information on various car models and their specifications, and is titled "Car Features and MSRP". It was provided by Trainity.link, a private college located in New York City.

Here is a brief overview of the dataset:

Number of observations after data cleaning: 8082 (I did Data Cleaning on MS Excel

Number of variables: 16

Initial File type: CSV (Comma Separated Values)

Current File Type: Xlsx (Microsoft Excel Worksheet)

The variables in the dataset are:

Make: the make or brand of the car Model: the specific model of the car Year: the year the car was released

Engine Fuel Type: the type of fuel used by the car (gasoline, diesel, etc.)

Engine HP: the horsepower of the car's engine

Engine Cylinders: the number of cylinders in the car's engine

Transmission Type: the type of transmission (automatic or manual) **Driven Wheels:** the type of wheels driven by the car (front, rear, all)

Number of Doors: the number of doors the car has

Market Category: the market category the car belongs to (Luxury, Performance, etc.)

Vehicle Size: the size of the car

Vehicle Style: the style of the car (Sedan, Coupe, etc.)

Highway MPG: the estimated miles per gallon the car gets on the highway

City MPG: the estimated miles per gallon the car gets in the city

Popularity: a ranking of the popularity of the car (based on the number of times it has been viewed on Edmunds.com)

MSRP: the manufacturer's suggested retail price of the car

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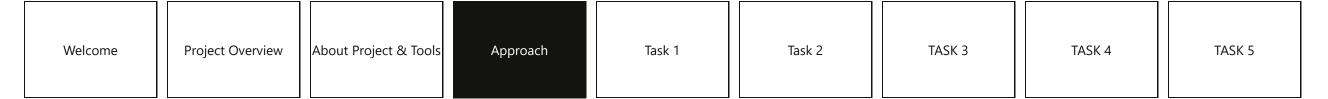
About The Project: - In this project, I am going to address various business issues and uncover insights for stakeholders to enhance their understanding.

(Analysis Tool Microsoft Excel 365)

- **Task 1:** How does the popularity of a car model vary across different market categories?
- Task 2: What is the relationship between a car's engine power and its price?
- **Task 3:** Which car features are most important in determining a car's price?
- Task 4: How does the average price of a car vary across different manufacturers?
- **Task 5:** What is the relationship between fuel efficiency and the number of cylinders in a car's engine?

(Analysis Tool Microsoft Power BI Desktop Version -2.119.986.0 64-bit)

- **Task 1:** How does the distribution of car prices vary by brand and body style?
- Task 2: Which car brands have the highest and lowest average MSRPs, and how does this vary by body style?
- **Task 3:** How do the different feature such as transmission type affect the MSRP, and how does this vary by body style?
- **Task 4:** How does the fuel efficiency of cars vary across different body styles and model years?
- Task 5: How does the car's horsepower, MPG, and price vary across different Brands?



Approach:

To the analysis I am going through these steps:

- •First I clean the dataset through Power Query Tool (by ETL Process) and prepare for further analysis.
- •Use Excel to perform the analysis and answer the questions mentioned in the project details.
- •I am creating Dashboard with Microsoft Power BI
- •Created (.pdf) report in Power BI to present your findings to the leadership.

Distribution of Car Prices by Brand and Body Style

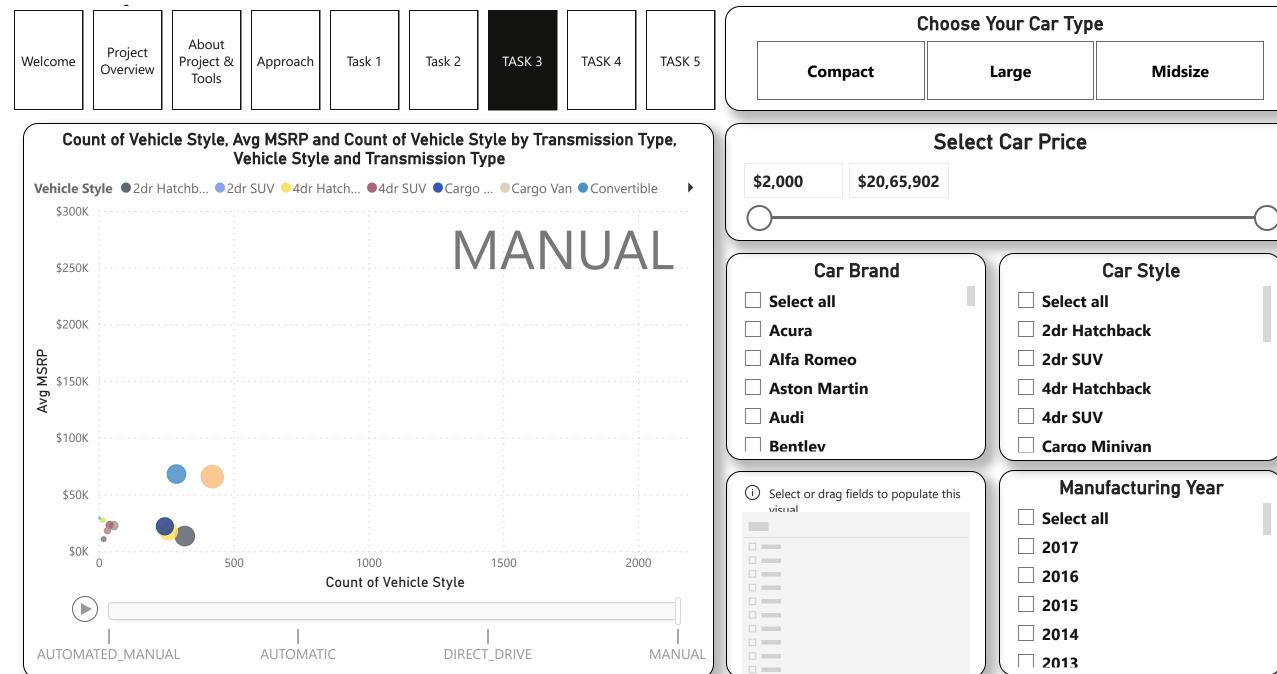




Compare The Average MSRPs Across Different Car Brands And Body Styles



How do the different feature such as transmission type affect the MSRP, and how does this vary by body



How does the fuel efficiency of cars vary across different body styles and model years



How does the car's horsepower, MPG, and price vary across different Brands?

