

**CARS DATASET**

Cars Dataset is taken from Kaggle and the dataset has lots of Null values and outliers because the data was Web Scraped for more than a year in Czech Republic and Germany from different web pages.

Also, the dataset should be cleaned before performing any Analysis or Algorithms. The Dataset has many columns, describing the features of the car. The dataset can mainly be used in Predictive Analytics.

The Dataset has around 10 lakh rows and 16 columns namely, maker, model, mileage - in KM, manufacture year, engine displacement - CCM, engine power - KW, body type, color slug, door count, stk control, transmission, seat count, fuel type, data created, date last seen and price - in EUR.

**OBJECTIVE:**

* The Main Objective of the Analysis is to help (Used Car Retail Company) to predict the Top 5 car models for Personal use and Top 5 car models for Commercial use (Taxi/Cab) for the customers using Spark.
* The other objectives are to see the relationship between maker, model and price to find the cheapest car makers and car models.
* Final objective of the analysis is to compare the price difference between gasoline and diesel engine cars.

**TOOLS AND TECHNOLOGIES USED:**

**DATA CLEANING**

The Cars Dataset is cleaned using Microsoft Excel. The Dataset had more than 10 lakh rows and now its reduced to around 2.5 lakhs. Also, the Dataset had 16 columns and now its reduced to 11 columns. The Dataset had a plethora of Outliers and NULL Values and so the outliers are replaced, and NULL values are removed in order to get clean and clear Data.

Moreover, columns like, body\_type, color\_slug, stk\_year, door\_count, date\_created, datelastseen, transmission and seat\_count are removed and new columns like, pollution\_test and car\_type are added. In maker and model column, the blank values are removed. Later, in mileage column, values less than 15000 KM are removed because it’s impossible to recommend cars with mileage less than that to the customers. Later, in manufacture\_year column, year less than 2001 are removed because it’s impossible to recommend cars older than 15 years to the customers.

After that, in engine\_displacement column, removed values less than 1500 CCM and greater than 8000 CCM. Later, in the engine\_power column, removed all values less than 40 KW because the car needs at least the basic engine power. After that, derived a new column called pollution\_test with the reference of stk\_control column. Later, derived another new column called car\_type with the reference of seat\_count column. Finally, the price column had lots of outliers and missing values and so replaced it by taking average price of same model cars.

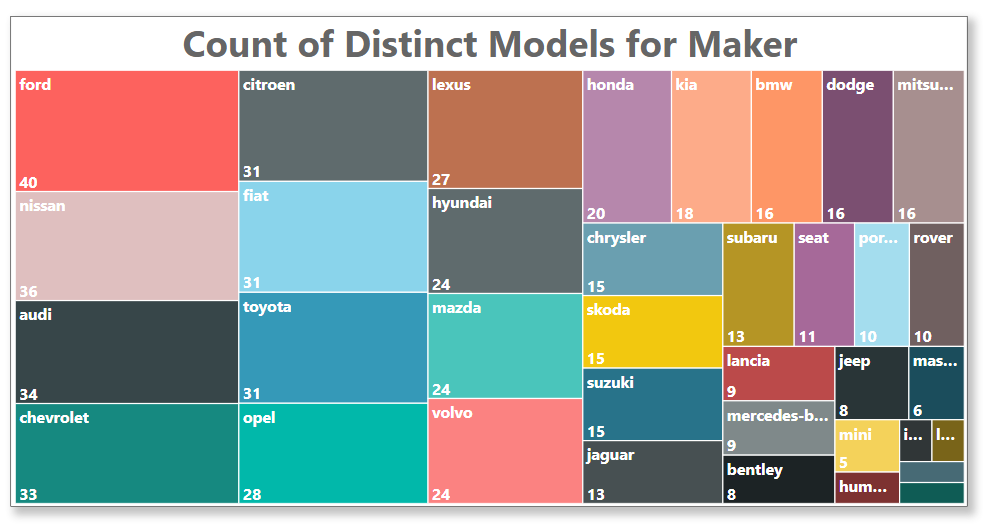
**First 20 Rows and All Columns of Cleaned Dataset:**

Table

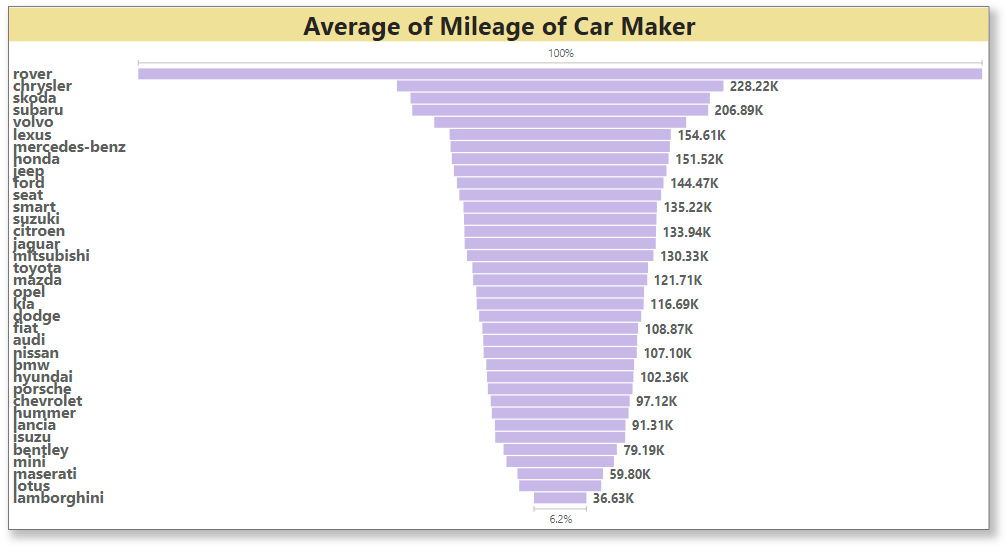
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**DATA ANALYSIS**

**Analysis using Power BI:**

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* The above analysis shows the count of distinct car models for different car makers.
* Car makers like, Ford, Nissan, Audi, Chevrolet and Citroen are the top 5 cars which released many models.

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* The above analysis shows the Average mileage of distinct car maker.
* Car makers like Rover, Chrysler, Skoda, Volvo and Lexus are the top 5 makers with best average mileage.

**Analysis using Spark (Data Frames):**

**1.How car maker, car model and car price are related to each other? And find the top 5 cheapest car makers and car models.**

**QUERY - 1:**

**val cars\_1 = cars\_cols.groupBy(col("maker")).agg(avg(col("price"))**

**.alias("average\_price"), countDistinct(col("model"))**

**.alias("model\_count")).orderBy(col("average\_price")**

**.asc).limit(5).show()**

Text

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**QUERY - 2:**

**val cars\_2 = cars\_cols.groupBy(col("model"),col("maker"))**

**.agg(avg(col("price")).alias("average\_price"))**

**.orderBy(col("average\_price").asc).limit(5).show()**

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**Explanation for the Question - 1:**

* Both queries of the above question deal with the relationship between maker, model and price.
* The first query gives the top 5 cheapest makers with its average price and number of models released by the maker.
* The second query gives the top 5 cheapest models with its average price and maker of the model.

Chart, pie chart

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**2.Find the top 5 car makers and give reasons to prove it.**

**QUERY:**

**val cars\_3 = cars\_cols.where("mileage >= 200000")**

**.where("manufacture\_year >= 2005")**

**.where("engine\_displacement >= 1500")**

**.where("engine\_power >= 100")**

**.where("pollution\_test = true")**

**.where("fuel\_type == \"gasoline\" ")**

**.orderBy(col("price").asc).select(col("maker"))**

**.distinct().show(5)**

**Text

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**Explanation for the Question - 2:**

* The above query gives the top 5 manufactures of car (Mitsubishi, Lexus, Toyota, Seat, Chrysler).
* It is based on the mileage greater than or equal to 2 lakh kms, manufacture year greater than or equal to 2005 because no customer will wish in buying a 10 years old car.
* Engine displacement greater than or equal to 1500 CCM as it should have basic engine displacement.
* Engine power greater than or equal to 100 kw as it is common to have good engine power, pollution test should be passed, fuel type should be petrol as it is Environment friendly.
* Price should be the minimal as it is welcomed by all customers who wishes to buy used cars.

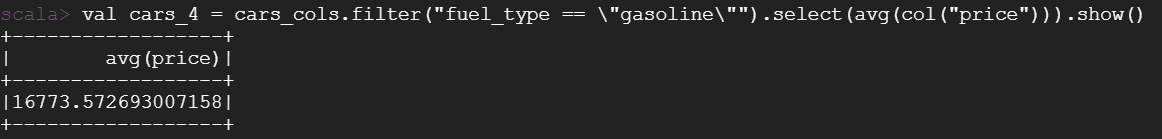
**3.Compare the gasoline and diesel engine car’s price and give comments.**

**QUERY - 1:**

**val cars\_4 = cars\_cols**

**.filter("fuel\_type == \"gasoline\"")**

**.select(avg(col("price"))).show()**



**QUERY - 2:**

**val cars\_5 = cars\_cols**

**.filter("fuel\_type == \"diesel\"")**

**.select(avg(col("price"))).show()**

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**Explanation for the Question - 3:**

* Both the queries of the above question deal with the average price of all makers.
* The first query gives the average price of makers with petrol engine and second query gives the average price of makers with diesel engine.
* In comparison between gasoline and diesel engine, the average car price of diesel engine (18083 EUR) is greater than the average car price of petrol engine (16773 EUR).

Chart

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**4.What are the top five car models for personal use? and Why?**

**QUERY:**

**val cars\_6 = cars\_cols.where("mileage >= 200000")**

**.where("manufacture\_year >= 2005")**

**.where("engine\_displacement >= 1500")**

**.where("engine\_power >= 100")**

**.where("pollution\_test == true").where("auto\_facility == true").where("fuel\_type == \"gasoline\" ")**

**.where("car\_type == \"COMPACT\" ")**

**.orderBy(col("price").asc)**

**.select(col("model")).distinct().show(5)**

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**Explanation for the Question - 4:**

* The above query gives the top 5 car models for personal use (s6, s80, land-cruiser, superb, Mondeo).
* It is based on mileage greater than or equal to 2lakh kms, manufacture year greater than or equal to 2005 because not to recommend cars older than 10 years for the customers.
* Engine displacement greater than or equal to 1500 CCM as it should have basic requirements.
* Engine power greater than or equal to 100 kw as it normal for customers to ask for high power, should have Automatic gear facility, Pollution test should be passed, should be petrol engine as it is used in controlling pollution, car type should be compact as its for personal or family use.
* Finally, price should be low as its should not be the concern for the customers.

**Chart, bar chart

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**5.What are the top five car models for Commercial use (taxi/cab)? and Why?**

**QUERY:**

**val cars\_7 = cars\_cols.where("mileage >= 200000")**

**.where("manufacture\_year >= 2005")**

**.where("engine\_displacement >= 1500")**

**.where("engine\_power >= 100").where("fuel\_type == \"diesel\" ")**

**.where("car\_type == \"SUV\" ")**

**.orderBy(col("price").asc)**

**.select(col("model")).distinct().show(5)**

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**Explanation for the Question - 5:**

* The above query gives the top 5 car models for personal use (Carnival, X-trail, transit, s80, jumper) based on mileage greater than or equal to 2lakh kms, manufacture year greater than or equal to 2005 because not to recommend cars older than 10 years for the customers.
* Engine displacement greater than or equal to 1500 CCM as it should have basic requirements.
* Engine power greater than or equal to 100 kw as it should have basic requirements, should be diesel engine as mileage is significant for the customers running taxi/cab.
* Car type should be SUV as seat count is important for the customers running taxi/cab.
* Finally, price should be low as it will be welcomed by all the customers.

Chart, bar chart

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**REFERENCE**

**https://www.kaggle.com/mirosval/personal-cars-classifieds**

**![Logo, company name

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4Uc2RXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA3OjA0IDEyOjQ1OjQ0AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMyOAAAkpIAAgAAAAMyOAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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