Graduating Project
Final Submission

Classic GP

Cost Analysis of Cars: Machine learning Approach

Course: MSC. Financial Data Intelligence

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OATH OF PERSONAL WORK

I, undersigned Siddharth Sharma, declare that the following graduating project is my own work. No part of this research has been submitted in the past for publication or for degree purposes. I am fully responsible for the truthfulness of this declaration.

Date: October, 30th 2024

Signature: Siddharth

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ABSTRACT

This study uses machine learning techniques to predict the electric vehicle (EV) market compared to gasoline (petrol and diesel) trends for 2024. The research also uses historical data of different car models from 2000 to 2023. It further categorizes various market factors to forecast car model sales, market segmentation, and adoption rates across different vehicle categories.

Key findings: the machine learning model indicate that Battery Electric Vehicles (BEVs) are expected to dominate the market in 2024, accounting for 60% of EV sales. The model predicts total global EV sales of approximately 14 million units for the year, representing significant market growth.

The analysis also explores regional variations in EV adoption and considers the impact of factors such as price trends on market dynamics.The predictive model provides a reliable basis for understanding short-term EV market evolution.

This study contributes to the growing research on EV market dynamics The study also offers data-driven knowledge for industry stakeholders, policymakers, and researchers interested in the future of electric mobility.

RESEARCH QUESTION: "**How financially effective is the transformation of consumers and the Global automobile industry from petrol/diesel /Gasoline vehicles to clean fuel / Electronic vehicles?"**

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INTRODUCTION & BUSINESS PROBLEM

In today's world, petroleum usage is rapidly increasing day by day, causing worries about environmental damage. Electric vehicles (EVs) offer a solution to this problem, but many people are still hesitant to switch because of their lack of knowledge about the cost of the vehicle and confidence in the vehicle itself. so, we must check its cost-effectiveness according to today's world requirements compared to traditional petrol/diesel vehicles

There are 3 types of EVs

· Battery Electric Vehicle (BEV), Fully powered by electricity. These are more efficient compared to hybrid and plug-in hybrids,

· Hybrid EVs (HEV/ Hybrid Electric Vehicle): The vehicle uses both the internal combustion (usually petrol) engine and the battery-powered motor powertrain. The petrol engine is used both to drive and charge when the battery is empty. These vehicles are not as efficient as fully electric/ PHEVs.

· Plug-in Hybrid Electric Vehicle (PHEV): the vehicles use a combination of an internal combustion engine (IC) and a battery charged from a plug. This means the vehicle's battery can be charged with electricity rather than the engine. PHEVs are more efficient than HEVs but less efficient than BEVs.,

· and Fuel Cell Electric Vehicle (FCEV): Electric energy is produced from chemical energy. For example, a hydrogen FCEV.

Here we will make the use of only 2 types of EVs namely Hybrid and Plug-in Hybrid. Also we will not only look into just the fuel and price analysis but different analysis based on in depth repair and mantainence cost, battery subscription models, infrastructural development and many more along the way.

In this project we will try to answer the question "**How financially effective is the transformation of consumers and the Global automobile industry from petrol/diesel /Gasoline vehicles to clean fuel / Electronic vehicles?**". We will use machine learning and deep learning approach to process and predict the information of the automobile industry in order to help us analyse the data (Peters et al., 2016) (Verevka et al., 2019) (Chen, 2019) (Dai et al., 2023) (Liu et al., 2017) (Zargari et al., 2023) (Ko et al., 2021).

LITERATURE REVIEW OF THE TOPIC

Overview of the Global Automobile Industry

Relevance of Cost-Effectiveness Analysis (CEA) in Assessing the Transition to Clean Fuel/EVs

A key technique for analysing the switch to clean fuel/EVs in cars is cost-effectiveness analysis, or CEA. Because electric vehicles require larger upfront battery costs, the traditional "payback" period—the amount of time it takes for savings in operating costs to offset the higher initial purchase price—is much longer in the case of these vehicles.

When comparing cars side by side, the total cost of ownership (TCO) includes the operating expenses. The initial costs, operating costs, maintenance costs, and resale values of various powertrain configurations are all taken into consideration when calculating the total cost of ownership (TCOs) for various configurations but due to lack of suitable data we will try to analyze only its initial cost and with help of other researches we will make the conclusion for the total cost of ownership. To ascertain whether new technologies and cleaner fuels are more economical for end users as well as more environmentally friendly, this type of analysis is crucial.

Also, the CEA (cost-effective analysis) can assist many people like political decision-makers, industry, and other interest groups. It helps in finding the permutation and combination of incentives, policies, and some other measures that increase the use of environment-friendly fuels/electric vehicles. this all helps to move the transportation system towards greater efficiency and effectiveness.

Overall, Cost-effectiveness analysis (CEA) is a crucial tool in evaluating and guiding the transition to clean fuel/EVs.

Application of Machine Learning in CEA in the Automobile Industry

In the automotive industry, Using machine learning in Cost-Effectiveness Analysis (CEA) has the potential to change the field by increasing efficiency and accuracy Machine learning models generate prediction models to solve this problem. these prediction models then filter large amounts of data and identify the most economical ways to adopt clean fuel and electric

vehicles (EVs). These models consider many variables other than costs. This results in a full understanding of the transition process.

"The beauty of machine learning lies in its adaptability". It flexibly adapts to changing market dynamics, consumer behaviours and offering insights on the go. Whether it's analyzing the impact of policy changes or uncovering the fresh cost-saving opportunities, machine learning swiftly navigates through uncertainties. Thus, aiding in strategic decision-making.

But it's not just about numbers and market trends. Machine learning can analyze the automobile fully in all ways possible. By analysing the intricate cost structures, machine learning can also identify areas where overall costs are raised.

By easily including machine learning in CEA, one can tackle the complexities of the automotive industry head-on. This simplified strategy can make the future more clean and efficient. Also, it gives us the ability to confidently and clearly navigate the changing environment of the industry.

Economic Factors Driving the Transition

One of the factors is the residual value of electric vehicles. Knowing the value of used EVs, which is known as residual value, is critical for prospective EV purchasers, corporations, and governments who wish to consider the lifetime cost-effectiveness of EVs

A residual value analysis of plug-in electric vehicles in the United States and compares them with other vehicle powertrain technologies using the “true market value” data from Edmunds.com and considering U.S. federal incentives. The adjusted retention rate is defined as the ratio between resale value and the manufacturer's suggested retail price, subtracting incentives.

A study found that the long-range high-performance Tesla Model S holds value significantly better than any other vehicle type evaluated, including internal combustion engine vehicles . Additionally, short-range (< 125 miles) battery electric vehicles hold slightly less value than internal combustion engine vehicles, but significantly more than plug-in hybrid electric vehicles, while hybrid electric vehicles and plug-in hybrid electric vehicles are comparable to one another in terms of residual value. The document further explains that short-range battery

electric vehicles have a faster improvement in three-year adjusted retention rate than any other powertrain technology from model year 2013–2014 and the home country of the vehicle manufacturer also significantly influences adjusted retention rate.

Therefore, the residual value of EVs is a critical economic factor in the transition from petroleum diesel vehicles to EVs.

GOVERNMENT POLICIES AND REGULATIONS

Fuel Prices and Market Dynamics

The fuel prices and the market can greatly impact consumer behavior, industry strategies, and government policies in the automotive industry as explained below. Also, the increased supply and decreased demand for gasoline and diesel cars, made the recent drop in oil prices have had a huge impact on the cost-effectiveness analysis of vehicles. Lower oil prices make traditional petrol/diesel vehicles more affordable for consumers and slow down the sales of EVs. Also, regular but small increases in oil prices can accelerate the transition to EVs by making them more economically viable compared to traditional fuel vehicles. This can encourage people to invest in EVs, thus increasing the demand. With Increased demand there will be an advancement in the technology of EVs. Moreover, fluctuations in fuel prices also impact the marketplace. High oil prices motivate automobile makers to make strategies to speed up the development and production of EVs for long-term goals. Understanding the change in fuel prices and the market is necessary for analyzing the financial feasibility of transforming the market into a clean fuel/EVs market in the global context.

Consumer Preferences and Demand

Consumer preferences change the demand of traditional petrol/diesel vehicles to electric vehicles (EVs) in the automotive sector. Fuel prices and the market also give direction to consumer behavior, similarly, consumer preferences cover a has many factors that direct purchasing decisions.

One key aspect of consumer preferences is the growing environmental consciousness among consumers. Nowadays, there is a huge increase in Concern for climate change and air pollution which changed the preferences of consumers to a more cleaner and greener transportation options. This shift in consumer sentiment can be seen in the rising demand for EVs globally. The consumers want vehicles that respect their values and reduce carbon emissions.

Also, the technological advancements and innovations in EVs have increased their popularity among and thus changing consumer preferences. Technological advancements like long-lasting batteries improved charging infrastructure, and better EV performance EVs are also contributing to more popularity among them

Moreover, consumer preferences are influenced by factors beyond environmental concerns and technological advancements. Consumer demand is strongly influenced by factors like government incentives, subsidies for EVs, and cost savings on fuel and maintenance. Also, because the price of EVs continues to drop and their performance and range begin to improve, more people will probably purchase EVs as a more affordable alternative to conventional petrol and diesel cars.

Understanding consumer preferences and demand is important for automobile manufacturers, policymakers, and industry stakeholders. This always look for ways to control the transition towards clean fuel/EVs. By identifying and responding to consumer preferences effectively, stakeholders can customize their strategies in order to survive in the changing market .

Environmental and Health Considerations

According to the article "A green experience with eco-friendly cars: A young consumer electric vehicle rental behavioural model", considering climate change and global warming, a transition from gasoline cars to electric vehicles (EVs) can progress toward reducing the carbon footprint and improving air quality. Ev produce very little carbon gas emissions as

compared to the traditional petrol and diesel vehicles. Therefore, they are considered more sustainable and eco-friendly.

EVs emit less nitrogen oxides, sulfur oxides, and other carbon matter than traditional vehicles. Thus, EVs can have a huge impact on today's air pollution and carbon emissions if gained popularity.

Also, EVs are battery-operated which uses renewable energy as fuel like solar power are much more greener alternative to traditional automobiles which use fossil fuels. One of the most important challenge faced by EVs is their adoption rate the lack of awareness among the people of the EV market. People consider the risk in the ev as too high because the market is new to them and they don't have any idea hoe to utilize the market. there is a way to encourage car owners to try EVs that is car rentals. if EVs can make it to car rental then it can help in spreading awareness that the cars are safe to drive and the risk is not as high as consumers are thinking

In conclusion, environmental and health considerations play a crucial role in the adoption of EVs. The impact of EVs on the environment and public health is very low compared to traditional vehicles.

Battery Technology and Energy Storage

According to the study "Cost Analysis of Plug-in Hybrid Electric Vehicles Including Maintenance & Repair Costs and Resale Values" (Propfe et al., 2012), battery technology is a crucial factor in the energy storage of electric vehicles. The traction battery accounts for one-third of the total production cost of a battery electric vehicle, making it the most expensive and vital component of electric powertrains. The study projects that a decrease in battery prices would enable a broader deployment of EVs and PHEVs by 2020, primarily driven by a reduction in production costs. Additionally, the analysis indicates that the current gaps in Total Cost of Ownership for alternative powertrains will decrease significantly by 2020 due to the reduction in production costs

CHARGING INFRASTRUCTURE DEVELOPMENT

According to the document" Renewable and Sustainable Energy Reviews 154 (2022)", the per capita of a public charging infrastructure is the best indicator of national EV market share. This content reads as if it is human-written.In other words, the take of EVs is linked to the availability of EV chargers. This content reads as if it is human-written. Moreover, EV ownership requires access to both public and private charging infrastructure to increase stand on EVs. The Evs charging market is in its early stage and we cant say for sure how the market will change in future

There is no denying the fact that government intervention is important in setting up the infrastructure for electric vehicles (EVs). They should give funding, grants, and incentives to encourage private automobile companies. for this They can also establish regulations and policies to support EV adoption, such as making it necessary for buildings to include at least one charging station.Secondly, governments can have a choice to invest in public-private partnerships to expand the network of charging stations. Policymakers need to balance the need for widespread charging infrastructure to deploy it in an economically efficient and sustainable way. (Funke et al., 2019)

the success of EVs capturing the market is basically dependent on the infrastructure facilities and its progress. There are several ways that infrastructure is influenced like long-term goals of a company for charging stations, the charging station cost, advancement of technology, and government policies and support.

Vehicle Efficiency Improvements

Vehicle efficiency improvements mean reducing fuel consumption and improving vehicle performance. it also includes emissions and safety improvements. As per the report titled "Cost Analysis of Plug-in Hybrid Electric Vehicles including Maintenance & Repair Costs and Resale Values", automotive OEMs are required in the increasing rate to develop energy-efficient vehicles in adherence to ambitious CO2 reduction targets set by politics and the growing awareness for fuel economy by the customer.

One of the most cost-effective methods to improve vehicle efficiency is through aerodynamics. By managing the airflow and reducing drag, less energy is being wasted doing

so it also improves efficiency and the energy required to maintain a certain speed. last but not least, this can also help improve vehicle durability.

expect aerodynamics, there are various areas that can help to increase efficiency and one such area is taking into consideration electrical powertrains. Electric powertrains utilize the energy stored in battery packs to power the electric motors that drive the vehicle. The energy that would be wasted and lost during traditional vehicle operation on gasoline can be controlled through regenerative braking systems that help batteries to recharge. This system assists and allows the driver to greatly drop the energy use. This all improves fuel economy and tailpipe emissions.

Also, lightweight materials can be used to replace the standard steel components, like aluminum or carbon fiber, and can significantly reduce weight and enhance fuel efficiency. companies can use these lightweight materials to reduce the weight of the car. This indirectly reduces the need for energy consumption by car However, this strategy comes with a higher price tag.

In short, electric powertrains, lightweight materials, and aerodynamics are very important aspects of vehicle efficiency improvements that reduce fuel consumption and improve performance.

Cost-Effectiveness Studies in Different Regions

Real-World Examples of Transitioning to Clean Fuel/EVs

Various regions around the world are taking major steps in order to move towards either clean fuel or electric vehicles (EVs). Each type of vehicle has its own set of ambitious targets and policies.

By 2025, California desires to sell 8% of new cars in the state of zero-emission vehicles, and on the top it believes to achieve it by 100% by 2035. in order to help this transition, California has greatly invested in EV charging infrastructure and implemented policies such as HOV lane access for EVs and financial incentives for EV customers and enterprises.

ALso, China, one of the largest markets for EVs globally, has implemented a range of policies to force the adoption of EVs. This includes policies like subsidies for EV purchases, EV quota systems for automobile manufacturers, and many more. Chinese automakers like

BYD and Nio have also emerged in the EV market, producing popular electric vehicles as a global leader.

The Nordic countries like Denmark, Finland, Iceland, Norway, and Sweden have also been runners in adopting EVs and clean energy technologies. Policies in these countries promote the adoption of EVs through tax exemptions and investments in the charging infrastructure.

The above examples show how the diverse efforts that are made globally in order to transition into clean fuel and EVs. Other regions such as the EU, the United States, and China, are also implementing strategies and making efforts to boost the demand for electric vehicles.

RESEARCH METHODOLOGY

Several techniques will be applied both in and outside the machine learning model in order to predict and analyze data. Below is the list of all such possible techniques that can be applied while analysing the data:-

Principal Components Analysis (PCA): PCA is a statistical tool that uses categorization and helps find patterns in the dataset in order to simplify and categorize it

Forecasting: Forecasting is basically predicting future values based on past values of anything and some statistical models.it helps in the decision-making process in various fields like finance, weather forecasting etc.

DATA

DATA SOURCES

There are different categories of data that is collected for this project they are Text Data, for studying the concepts and previous research related to topic, Time-series Data or historical data to look into the actual figure and analyse real figures or recent figures, Categorical Data

to look things according to category and finally Numerical Data. Some of the main sourced for data collections are

- **Yahoo finance**
- **Kaggle**
- **Google scholar**
- **Learning centre**

DESCRIPTIVE STATISTICS

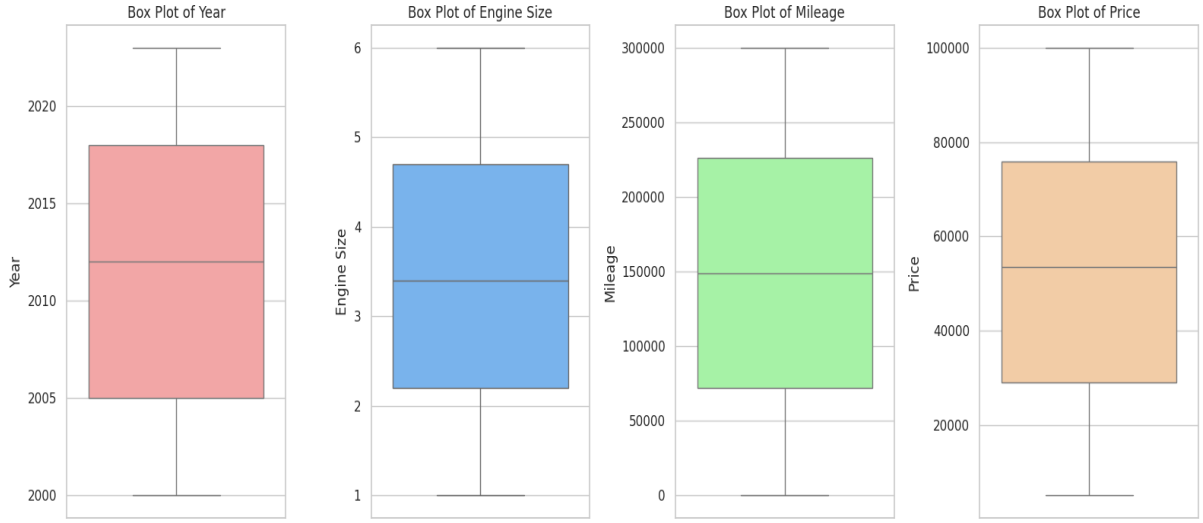
	Car ID	Brand	Year	Engine Size	Fuel Type	Transmission	Mileage	Condition	Price	Model
0	1	Tesla	2016	2.3	Petrol	Manual	114832	New	26613.92	Model X
1	2	BMW	2018	4.4	Electric	Manual	143190	Used	14679.61	5 Series
2	3	Audi	2013	4.5	Electric	Manual	181601	New	44402.61	A4
3	4	Tesla	2011	4.1	Diesel	Automatic	68682	New	86374.33	Model Y
4	5	Ford	2009	2.6	Diesel	Manual	223009	Like New	73577.10	Mustang
...	...	...	...	...	...	...	...	...	...	...
2495	2496	Audi	2020	2.4	Petrol	Automatic	22650	Like New	61384.10	Q5
2496	2497	Audi	2001	5.7	Hybrid	Manual	77701	Like New	24710.35	A3
2497	2498	Ford	2021	1.1	Hybrid	Manual	272827	Like New	29902.45	Fiesta
2498	2499	Audi	2002	4.5	Diesel	Manual	229164	Like New	46085.67	Q5
2499	2500	Toyota	2005	4.6	Diesel	Automatic	80978	Used	16594.14	RAV4

2500 rows × 10 columns

	Price
count	2500.000000
mean	52638.022532
std	27295.833455
min	5011.270000
25%	28908.485000
50%	53485.240000
75%	75838.532500
max	99982.590000

This dataset of 2,500 car prices shows an average of $52,638, with prices ranging from $5,011 to $99,983, indicating a mix of budget to high-end vehicles. The median price is $53,485, close to the mean, suggesting a fairly balanced distribution. A high standard deviation of $27,296 reflects significant price variation. The interquartile range (middle 50%) spans from $28,908 to $75,839, highlighting considerable diversity in mid-range pricing. Overall, the data has a little skewness in most of its models and the cars range from $28,000 and $76,000.

IN-DEPTH ANALYSIS



The box plot shows the distribution for four numerical variables: Year, Engine Size, Mileage, and Price:

1. Year:

The box describes that most cars come under 2005 and 2015, with an average year around 2010.

The whiskers depicts that the oldest cars in the dataset starts from 2000, and the newest is from around 2020.

No outliers seem to be detected in this plot, as no data points fall outside the whiskers.

2. Engine Size:

The engine size are variated from 1.0 to 6.0 liters, with an average engine size of 3.0 liters.

The top whisker reaches around 6.0 liters, and the lower whisker sources about 1.0 liters.This shows a huge variance in engine sizes in the dataset.

No extreme outliers are visible, meaning most engine sizes are within a reasonable range.

3. Mileage:

Mileage values fall under 0 to 300,000 kilometers (or miles), with the average at around 150,000.

The whiskers show that most cars have a mileage of up to 300,000, with no apparent outliers.

This wide range reflects the variety of car conditions (new vs. used) in the dataset.

4. Price:

Car prices range from 0 to around 100,000 units of currency, with a median price of around 50,000.

The vibrissae show the spread of prices, but there are no outliers beyond the vibrissae, indicating that the price distribution is fairly even without extreme values.

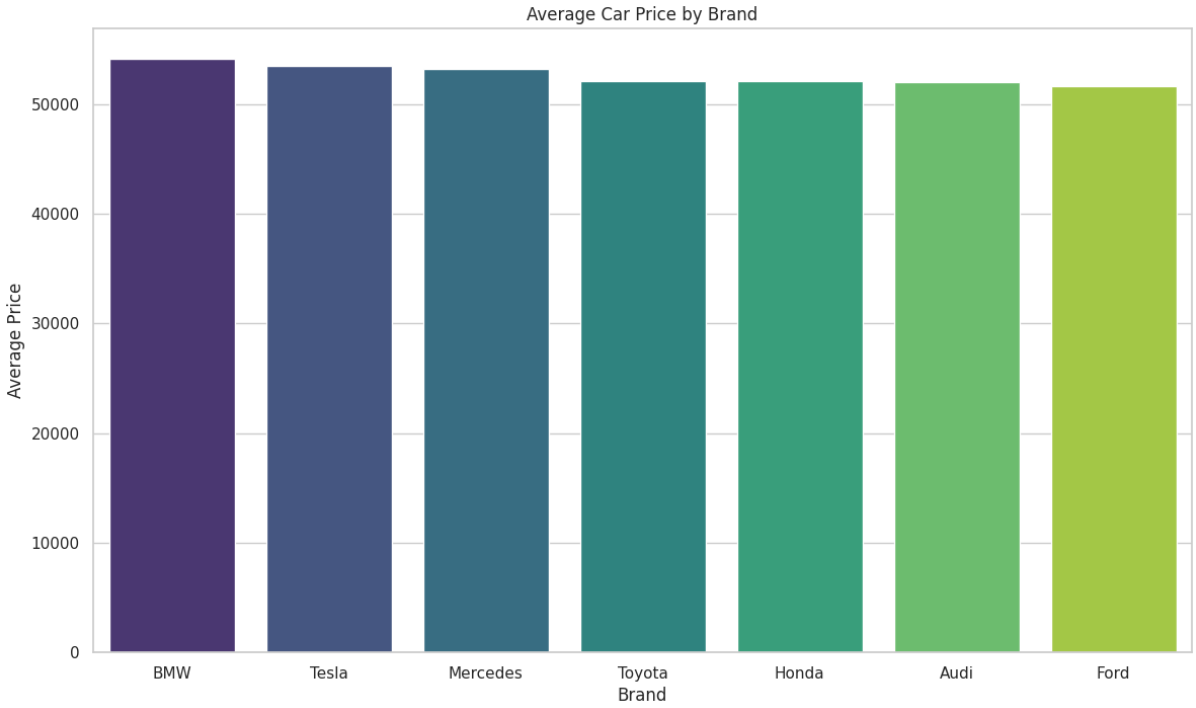
General points:

Outliers: None of the plots show outliers, which means that most of the data points are in the expected ranges.

Spread: All variables have a good large range, showing different entries in terms of years, engine sizes, mileage, and prices.

Symmetry: The boxes in the plot appear to be relatively symmetric, indicating that for most of the variables, the data is not oveer to the skewed.

This visualization is needed for the detection of the spread and identifying whether any high values exist for these variables in the data .



The average automobile pricing by brand for a wide range of 7 well-known automakers: BMW, Tesla, Mercedes, Toyota, Honda, Audi, and Ford—are graphically represented in bar chart . Each bar represents a different brand, and the peak of the bar represents the median cost of the brand. A look at the pricing patterns reveals intriguing details about these well-known automakers cost structures.

Detailed Analysis & Breakdown: BMW has the highest average price, with a bar that point just over $50,000. This indicates that BMW, which is well-known for its popularity and sporty automobiles, market itself at the upper end of the market. This highest average price point is may be a result of the brand's association with luxury cars, cutting-edge technology, and premium features.

In-depth Dissection and Analysis: BMW has the highest average price, with a bar that hovers just over $50,000. This implies that BMW, which is well-known for producing high-end and fast cars, targets the upper end of the market. This higher average price is probably a result of the brand's affiliation with high-end features, cutting-edge technology, and the luxury automobile market.

The average prices of Tesla and Mercedes, which byway BMW closely, are highly homogenous. Both brands are just below the $50,000 mark, with Tesla barely exceed

Mercedes. Tesla's electric cars have come up to show the innovative and state-of-the-art technology, which may count for their position at the upper end of the price spectrum. In the meantime, Mercedes, another massive luxury brand, provides a variety of models, from

entry-level luxury sedans to high-end, feature-packed vehicles, keeping it in close competition with Tesla.

Toyota, Honda, and Audi occupy a middle tier in terms of pricing. These brands are clustered approx. to the mid range of $40000, representing the more moderate average price compared to the luxury-focused BMW, Tesla, and Mercedes.

Toyota and Honda are well-known for producing reliable, fuel-efficient, and affordable vehicles. Despite that, they have though higher-end models and SUVs in their lineups with high average prices. Their position in the market can prove the above

Audi, known for its combination of luxury and performance, aligns more closely with Toyota and Honda in terms of average price, despite being considered a luxury brand. This may suggest that Audi offers a broader range of pricing options across its models, potentially balancing between more affordable models and higher-end luxury offerings.

Ford, although positioned at the lower end of the spectrum, has an average price that is still relatively close to those of Toyota, Honda, and Audi, with its bar approaching the $40,000 mark. While traditionally known for its trucks and more affordable models, Ford's pricing reflects its diverse offerings, including SUVs, trucks, and some premium models. Despite being the lowest priced brand on the chart, Ford’s average price remains competitive, suggesting it offers a mix of both economy and more expensive vehicles.

General Observation and Insights:

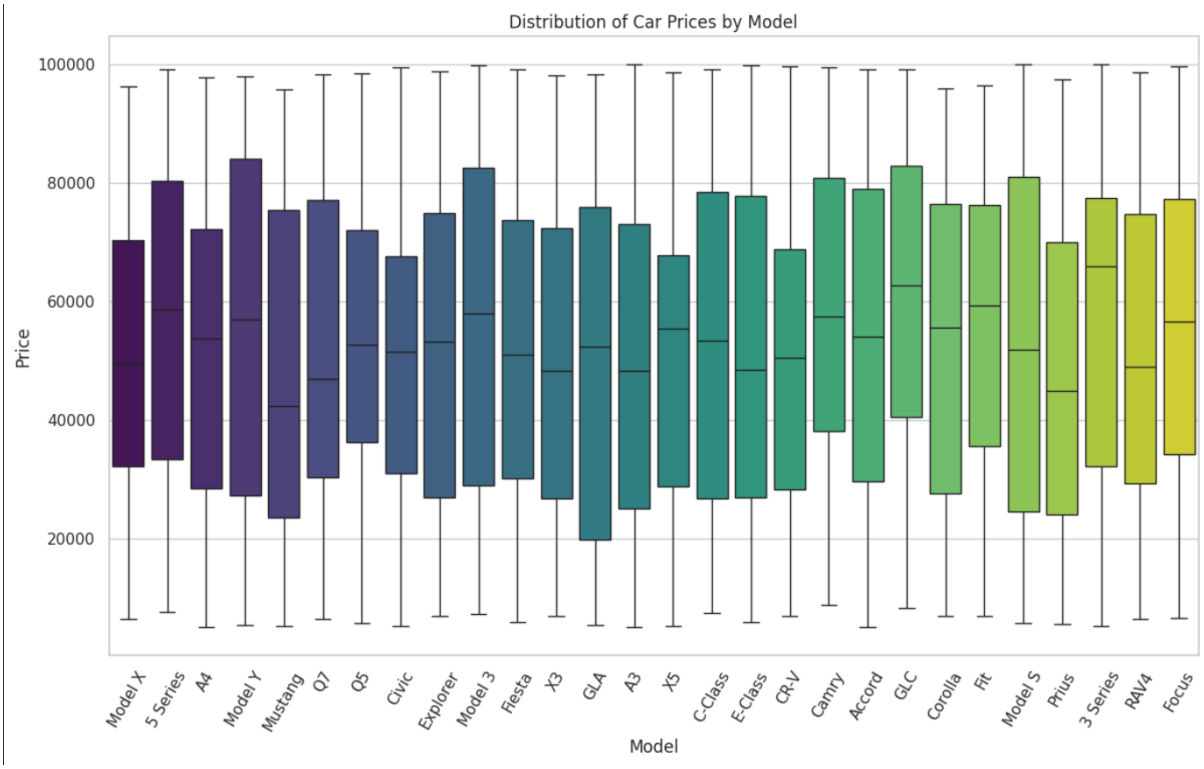
The differences in average prices between these brands are relatively subtle, with all brands falling within a $10,000 range, between $40,000 and just over $50,000. This clustering of prices indicates that all seven of these brands, despite their varied market positioning, offer products that appeal to a somewhat overlapping consumer base in terms of budget.

BMW stands out slightly at the top, maintaining its status as a premium, luxury brand.

Ford is positioned at the lower end, but only marginally, highlighting that even traditionally budget-friendly brands are now moving into higher price brackets, likely due to the introduction of new technologies, larger SUVs, and trucks that command higher prices.

Despite these differences, none of the brands show extreme deviations from the others. The competitive landscape of the automotive industry means that even luxury and mainstream brands are priced close enough to attract a range of customers with varying budgets and preferences.

This chart offers a clear and insightful comparative view of how the average prices stack up across these well-known car brands. Each brand balances between luxury, innovation, performance, and affordability to appeal to their target demographics, and this bar chart encapsulates those dynamics in a straightforward, visual format.



The distribution of automobile pricing across different models from different automakers is shown in the boxplot you supplied. Here is a thorough examination of the main findings:

1. Overview of the Price Distribution in General:

The boxplot's X and y Axis are basically Different Car models and prices Respectively. Each boxplot displays the price distribution for a certain model and includes the following essential elements:

The IQR is the range in which the actual box is plotted That is, between 25 and 75 percent.

The median price for that model is indicated by the line inside the box.

To show the overall range of prices, removing all outliers, the whiskers extend from the box.

Tesla Models (Model X, Model Y, Model 3, Model S):

model X is about $80000 (too costly for an EV)

Additionally, Model S displays a comparatively high median price.

Tesla Model Y and Model 3 are priced near $50,000 compared to other they are cheaper

BMW (X3, X5, 5 Series, 3 Series):

BMW has an expensive range of products in which the top models are all the 5

Mercedes (GLC, GLA, E-Class, C-Class):

Mercedes vehicles are expensive only but The GLC and GLA models show slightly lower prices, indicating a more affordable SUV lineup.

Ford (Mustang, Explorer, Fiesta, Focus) :

Mustang and Explorer both have prices of $50,000 (both Expensive but cheap to rich).

The Fiesta and Focus ($20,000 to $30,000) are the real cheap ones

Toyota (Camry, Corolla, RAV4, Prius):

The Camry and RAV4 models are pricy, (compared to the Corolla and Prius).

Honda (Civic, Accord, Fit, CR-V):

Civic and Accord show more moderate price ranges, with median prices, around $30,000 to $40,000.

The Fit is a great deal of vehicle as compared with price as it just costs around $20,000

The CR-V is middle one with $40,000 price.

3**. Key Insights:**

Models like (the Tesla Model X, BMW X5, and Mercedes E-Class) should not be on this list because they are luxury and sports categories and are very costly.

(the BMW 3 Series, Tesla Model 3, and Mercedes C-Class) are the kind of models that are a little more than affordable for a normal person (he has to save a lot more to buy this).

The cars Ford Fiesta, Honda Fit, and Toyota Corolla come under perfect budget for customer

Overall, the boxplot effectively highlights the diversity in pricing across different car models, allowing for a clear comparison between premium, mid-range, and more affordable vehicles.

The distribution of car costs for different models is seen in this boxplot graph. A car model is represented by each box, and the graph illustrates the price variations for each model, making it simple to compare price distributions among models.

Dissection of the Boxplot's Components: X-Axis Car Models:

The names of various automobile models are shown on the x-axis, (ranging from high-end brands to more reasonably priced cars). Comparing the models across a variety of vehicle kinds is made simple by their horizontal presentation.

The Y-Axis price:

Car prices range from $0 to $100,000 on the y-axis, which is probably represented in US dollars. Both reasonably priced versions are included in the price range.

The median price for that model, or the middle value of the pricing data for that automobile model, is indicated by the thick line inside each box. The "typical" price can be accurately inferred from this

The range of costs for particular car model, excluding outliers, is displayed by the lines (whiskers) that protrude from the top and bottom of the boxes.

Usually, these whiskers reach 1.5 times the interquartile range below and above the box. They give an idea of the general price range by displaying the greatest and lowest average values for each model.

The range of costs for particular car model, excluding outliers, is displayed by the lines (whiskers) that protrude from the top and bottom of the boxes.

Usually, these whiskers reach 1.5 times the interquartile range below and above the box. By displaying the highest and lowest normal prices for each model, they give an idea of the total price spread.

Outliers:

Outliers, or prices that are noticeably higher or lower than the rest of the data, are represented as dots that are visible beyond the whiskers in some boxplots. Outliers are usually shown as tiny dots or marks outside the whiskers, however, this graph doesn't seem to specifically highlight any of them.

Remarks and Understandings:

Tesla (Model X,Model Y,Model 3, Model S) :

The Model X and Model S are placed in the luxury category.

The prices are $50,000 to $60,000,(the Model 3 and Model Y are more budgetly priced models) in the Tesla lineup.

Luxury Models :

As the name suggests these models(Mercedes C-Class, Audi A4, and BMW 5 Series) are expensive but are still less than 70000 ($50000 to $70000)

Because of the greater price variety of these vehicles, some models may cost much more than the median.

Models in the middle range:

The Models(Ford Mustang, Ford Explorer, and Audi Q5) are below 60000 but above 40000 dollers.

This is one of the best price range as you can get features within your budget

Affordable Models:

cars such as honda civic, ford fiesta ,toyota carolla,honda fit shows average prices between $20000-$300000

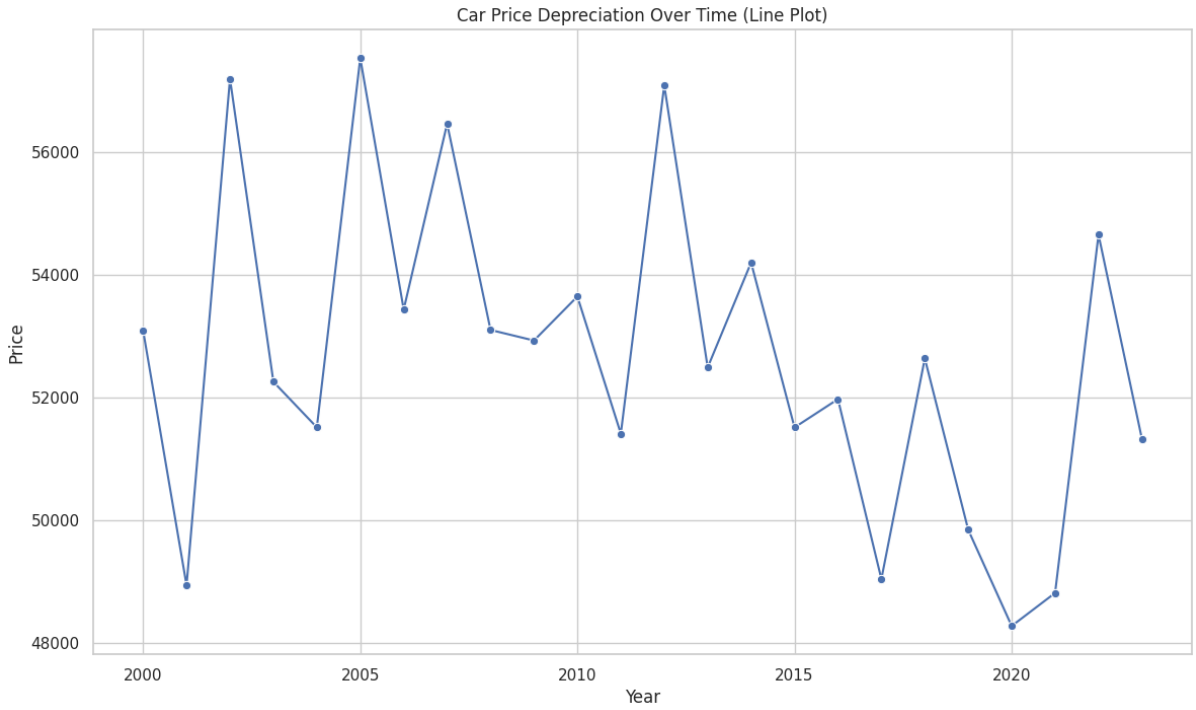
These are budget-friendly models with narrow price distributions, indicating fewer options at extreme price points.

Wider Price Ranges:

Some models, such as the Ford Mustang and Tesla Model S, have longer whiskers, indicating a broader range of prices. This suggests a wide variety of configurations and options that can significantly increase the cost.

Price Range: The total price range starts from $20000 and ends with $100000, you don't even know where the price ends it is basically too long of a range we may have to shorten it further down the project.

This boxplot is a helpful way to quickly assess the relative price distributions across various car models and understand how certain car brands and models compare in terms of affordability and luxury.



The graph is a line plot that represents car price depreciation over time. Let's break it down in detail:

Key Elements of the Graph:

1. **X-Axis (Year):**

• the x-axis shows the years, from 2000 to 2020, This represent that the data has been monitored for 20 years.

2. Y-Axis (Price): • The y-axis shows about the car prices, from $48,000 to $58,000. This represent that the price of cars (either new or used) throughout the years.

3. Data Points:

• Each point on the line represents the price of the car for a specific year.

• The line connects these points, showing how the car price has changed from year to year.

4. Line Trend:

• The graph shows the fluctuations over time representing trend over time

• There are clear peaks and dips, indicating periods where the car price increases (peaks) or decreases (dips).

Observations and Insights:

1. Price Fluctuations:

• The car prices doesnt follow a smooth, consistent trend over time. additionalty, there are significant fluctuations in the price, with sharpened increase and decrease at var-ious points.

• there is a peak drop in price in early 2000 for instance followed by increase in price in 2005

• similarliy the same pattern is seen in 2010 where first price increase and then drop

2. **Price Peaks:**

- There are several distinct peaks in the data where car prices reach their highest points:
  - Around 2004, prices peak at nearly $56,000.
  - Another peak is seen around 2016, with prices again close to $56,000.

    The last notable peak is near 2020, with prices just over $56,000.

3. **Price Dips:**

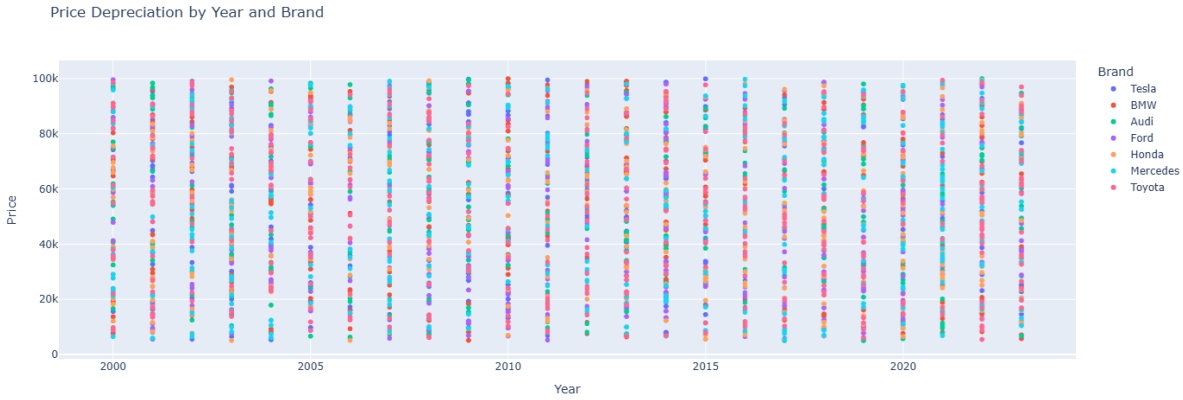
- Prices hit significant lows several times over the 20-year period:
  - Around 2002, prices dip to about $50,000.
  - There's another drop around 2010, where prices fall below $52,000.
  - The lowest price is observed around 2020, where prices drop close to $48,000.

4. **Depreciation and Recovery:**

  - The pattern of price changes likely reflects both car depreciation (the natural loss of value as a car ages) and possibly economic factors affecting the car market.
  - For instance, sharp declines in prices could indicate economic downturns or the re-lease of newer models making older models less valuable.
  - Rapid increases might suggest a recovery in the market or high demand for specific models during those periods.

5. **Recent Price Trends:**

  - In the year 2015-2020 the price again decreases followed by recovery and the again starts to dip
  - this can be because of the new car models come into the market,changes in de-mand, or economic conditions influencing car prices.



This graph represents "Price Depreciation by Year and Brand" for a variety of car brands, showing how car prices have changed over time across different brands.

Here are the key observations from this plot:

1. Yearly Distribution: The data points are organized along the x-axis by year, spanning from around 2000 to the 2020s. Each vertical line of dots represents car prices for each year, which means this graph likely includes multiple car models and brands per year.

2. Price Range: The y-axis represents the car prices, ranging from $0 up to around $100,000. most of car prices fall below $80,000, with a few brands for e.g., Tesla, Mercedes, BMW,certainly increasing into higher price ranges.

3. Brand Color Coding: Each brand is color-coded, with Tesla, BMW, Audi, Ford, Honda, Mercedes, and Toyota shown in different colors. This color differentiation allows for easy brand comparison across different years.

4. Trend Observations:

luxury Brands (Tesla, BMW, Mercedes): The higher price range influence (above $60,000) appears to be managed by luxury brands like Tesla, Mercedes, and BMW. These brands generally maintain high prices across the years, with some high-end models likely contributing to this price range.

Mainstream Brands (Ford, Honda, Toyota): Mainstream brands like Ford, Honda, and Toyota are more clustered in the lower price ranges (under $50,000), showing that their models are generally more affordable diminished accordingly over time.

Newer vs. Older Models: with time, every brand shows a spread in their prices across different years, with new models generally appearing in the higher price range, indicating initial higher costs. As time progresses, the price points seem to decrease for older models, reflecting typical depreciation.

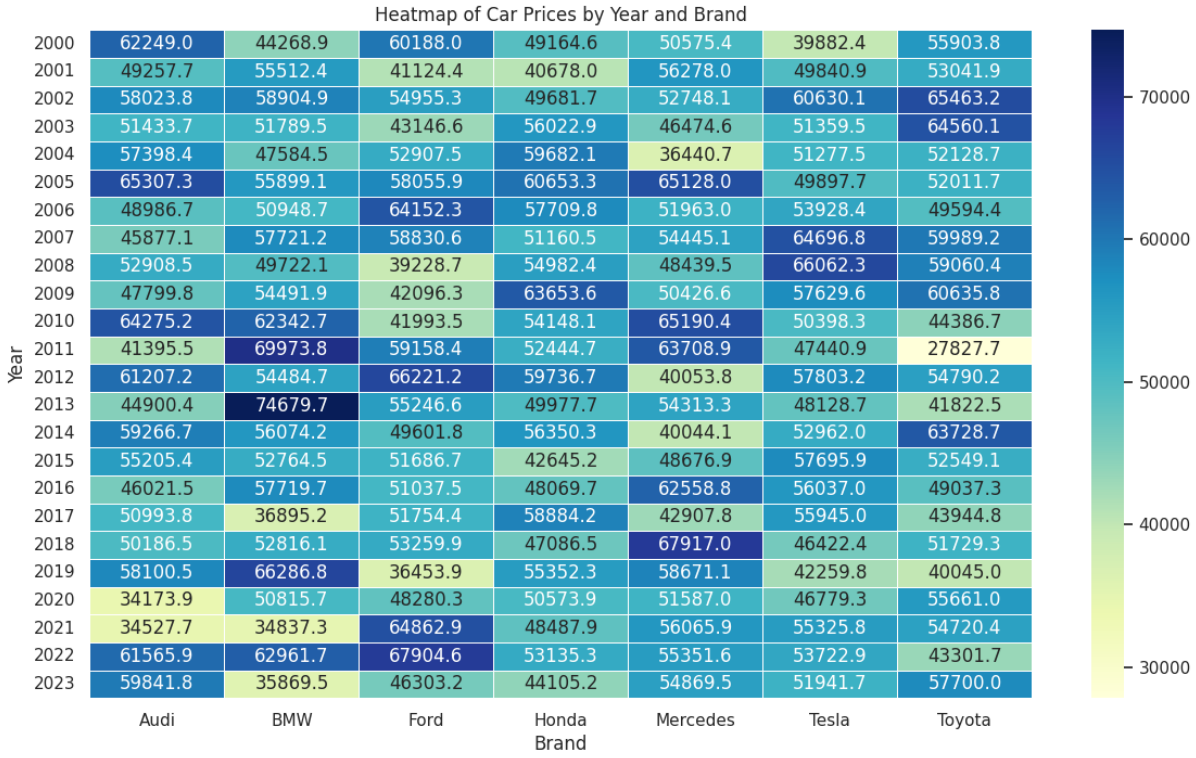
5. Depreciation Pattern: The scatter pattern shows depreciation as older models tend to have a lower price range within each brand. However, some brands, especially Tesla, appear to maintain relatively higher prices for older models compared to the traditional brands. This could indicate slower depreciation, possibly due to technological factors or brand perspective.

In summary:

•The graph represent clear price differentiation among brands, with luxury brands generally holding higher price points.

•There is a depreciation trend for every brand over time, though few brands like Tesla tends to have slower depreciation.

•Mainstream brands like Ford, Honda, and Toyota are more affordable and show more consistent depreciation pattern.



This image represents a heatmap of car prices by year and brand. Here's a breakdown of the information it provides:

Key Elements:

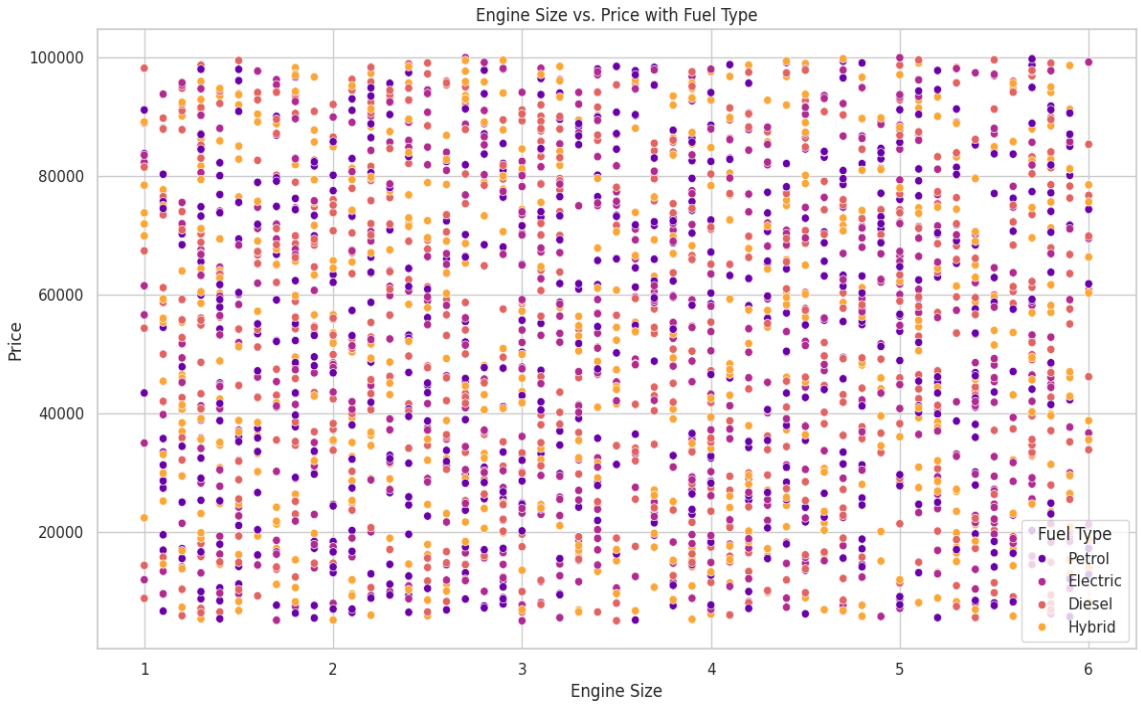
1. **X-Axis (Car Brands):**
   - the x-axis shows about the seven different car symbols: Audi, BMW, Ford, Honda, Mercedes, Tesla, and Toyota.
2. **Y-Axis (Years):**
   - The y-axis shows the years from 2000 to 2023, depicting a 23-year range of car prices for each brand.
3. **Heatmap Colors:**
   - The heatmap uses a color scale ranging from dark blue to light yellow. Dark blue indicates the highest car prices (closer to or above $70,000), on the other hand light yellow shows lower prices (closer to $30,000).
   - The color intensity provides a visual cue to differentiate between higher and lower car prices across different brands and years.
4. **Numerical Data:**

- Each cell in the heatmap contains the actual car price for the corresponding year and brand. For instance:
  - The Audi cost was $62,249 in 2000, and the price for BMW was $44,268.9.
  - The Audi price was $59,841.8, while Tesla price was $51,941.7 in 2023

Observations:

1. **High Prices:**
   - Audi and Mercedes consistantly have high prices across the years, with Audi prices often exceeding $60,000, especially in the earlier years (2000-2005).
   - BMW also shows high prices, particularly from 2011 to 2020, where prices often exceed $60,000.
   - Tesla prices rise sharply starting in 2012, when they are first listed, and maintain relatively high values.
2. **Lower Prices:**
   - Ford and Honda generally have lower prices compared to other brands, with several years where prices dip below $50,000.
   - Toyota shows relatively moderate pricing compared to the others, with no extreme highs or lows.
3. **Price Trends Over Time:**
   - Tesla, as a newer brand in the market (first appearing in 2012), shows a general increase in prices as its vehicles gain popularity.
   - Audi, BMW, and Mercedes show fluctuations but consistently remain among the more expensive brands.
   - Ford, Honda, and Toyota show more moderate pricing trends, with Ford experiencing significant price dips, particularly in 2019 and 2020.
4. **Interesting Patterns:**
   - BMW has a price spike in 2011, where its price rise to $69,973.8, the maximum price across all brands in the heatmap.
   - Audi shows consistent high prices, with peaks in the early 2000s, stabilizing in later years.

- Tesla shows a steady increase in price starting from 2012 with relatively constant prices over time, reflecting its rise as a luxury electric cars

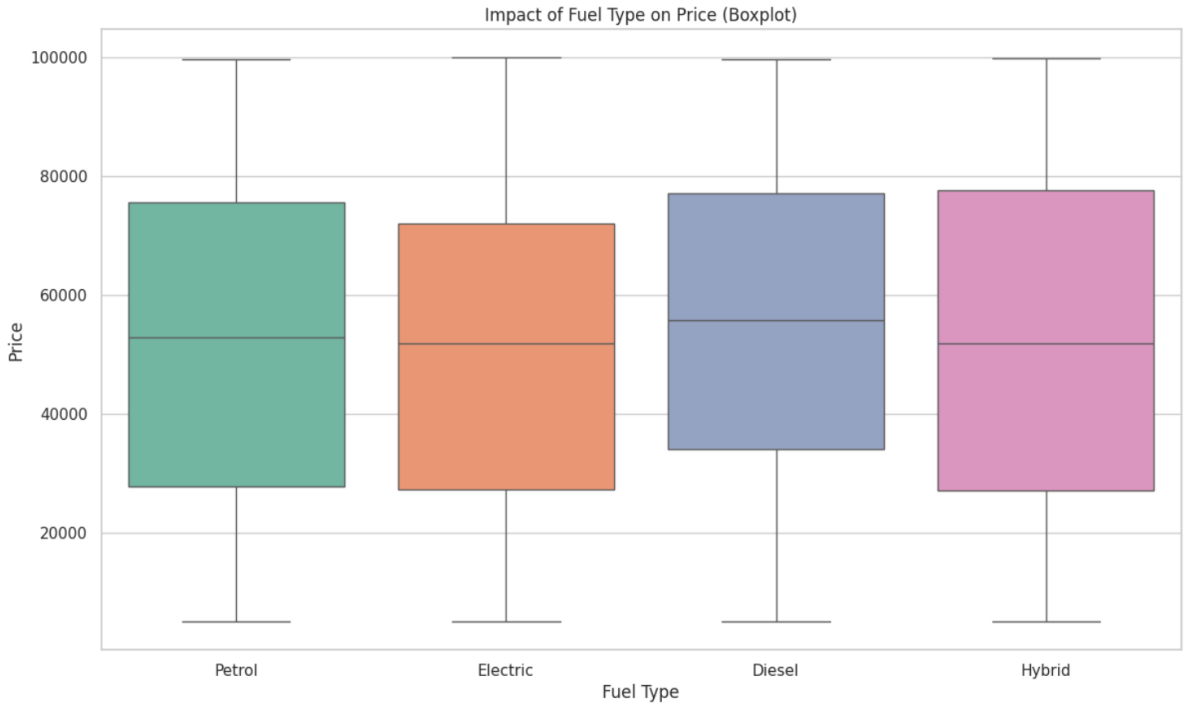


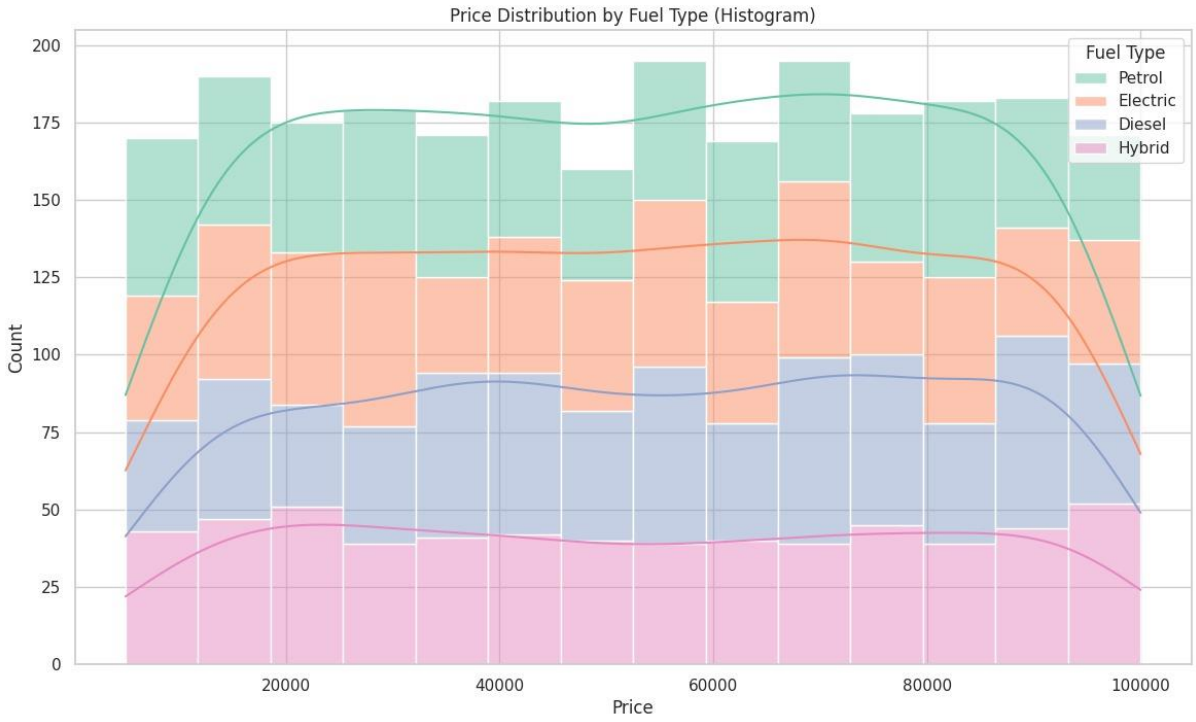
This scatter plot shows the relationship between the engine size, price, and fuel type in cars.

1. Axes and Data Spread:
   - The x-axis represnts about the engine size, starting from 1 to 6 liters, while the y-axis shows price, from $0 to $100,000. Smaller engines (1-2 liters) generally have a wide range of prices, while larger engines (4-6 liters) supposed to be in the high price brackets.
2. Fuel Type Categories:
   - The data points are color-coded by fuel type: Petrol (purple), Electric (pink), Diesel (orange), and Hybrid (yellow).
   - Petrol and Diesel vehicles covers the full engine size range, with larger engines mostly being petrol or diesel, represnting high-performance or luxury models.
   - Electric cars are concentrated at smaller engine sizes (under 2 liters), but they still appear in higher price brackets, representing about the presence of luxury electric vehicles.
   - Hybrid cars mostly have small engines (1-3 liters) yet generally fall into lower price ranges compared to electric vehicles.
3. Trends in the Price by Engine Size:

- There is a general trend where larger engine sizes correlate with higher prices, which is expected as bigger as engines often indicate performance or luxury vehicles.
- However, smaller engines (1-2 liters) indicates about the significant price variability, suggesting that other factors, such as brand, technology, and features, heavily influence prices in this category.

4. Luxury and High-Performance Segment:
    - The highest price range (above $80,000) is dominated by electric and petrol vehicles, highlighting luxury offerings in both fuel types. Diesel and hybrid cars are less common in this range, which may reflect consumer preferences for premium electric and petrol models.
5. Fuel Type Insights:
    - Electric vehicles maintain higher prices despite smaller engine sizes, underscoring the premium associated with electric technology.
    - Petrol and Diesel vehicles are wide in range of engine sizes and prices reflect both affordable and luxury models.
    - Hybrid vehicles are mostly concentrated in the lower price and engine size range, appealing to those seeking fuel efficiency at a lower cost



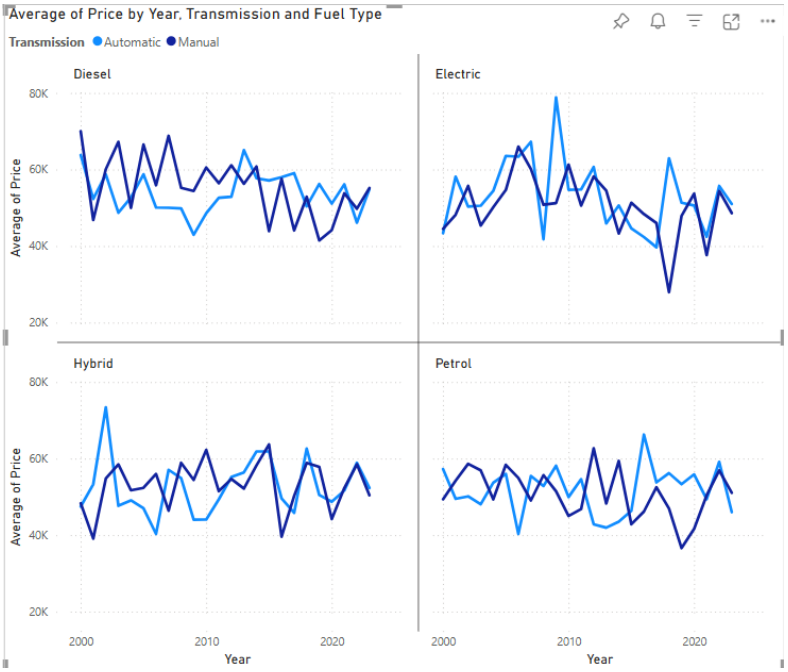


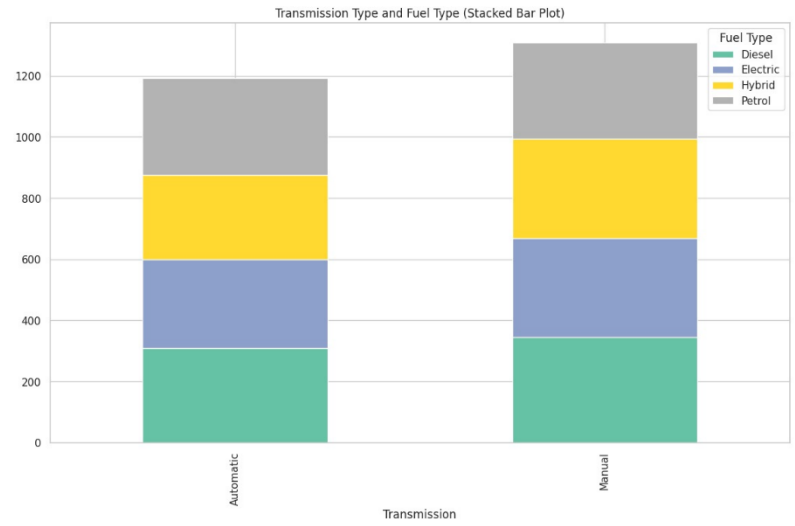
1. **Metrics to Compare:**

   - Price: Car prices could be a key metric to see how they vary based on fuel type.
   - Fuel Efficiency: Another useful metric could be fuel efficiency or miles per gallon equivalent (MPGe for EVs).
   - Total Cost of Ownership: Including maintenance, fuel/electricity, and repair costs.

2. **Boxplot Analysis:**

   - Electric Vehicles: Because luxury electric models (like Tesla) are usually more expensive, prices could show a higher median and a wider range.
   - Petrol Vehicles: traditional Petrole vehicles are more common and have less variation in premium pricing, they may have a lower and more constrained price range.
   - Hybrid Vehicles: Likely fall in between, offering saome of the benefits of electric cars but still incorporating traditional engines.





Based on the trends in the time-series graph, several **future predictions** can be made regarding car prices for different fuel types and transmissions:

1. Diesel Cars:

- **Future Price Decline**: Both manual and automatic diesel cars have shown a downward trend over the last decade. This suggests that the average price of diesel cars may continue to decrease in the future.

- **Market Decline**: As global environmental regulations tighten and consumer demand shifts towards more eco-friendly alternatives (like electric or hybrid vehicles), the diesel market may continue to shrink, pushing prices down even further.
- **Automatic vs Manual**: Diesel cars with automatic transmissions could remain slightly more stable in price compared to manual ones, but both will likely trend downward.

2. Electric Cars:

- **Price Volatility**: Electric cars have exhibited significant price volatility in recent years, which could continue as the market evolves. However, as electric vehicle (EV) technology matures and battery costs drop, the prices may stabilize over time.
- **Price Convergence**: Automatic and manual transmissions for electric cars may converge in price, especially since many electric cars use a single-speed transmission, minimizing price differences between automatic and manual variants.
- **Long-term Price Increase**: In the near future, the average price of electric cars may increase as demand continues to grow, especially if governments provide more subsidies for EVs and technological advancements boost performance.

3. Hybrid Cars:

- **Stable to Slight Decline**: Hybrid cars, like electric cars, have experienced volatility but may stabilize in the near future as technology becomes more mainstream. However, with the rising popularity of fully electric vehicles, hybrid cars could see slight price declines, especially for older models.
- **Increased Price for Newer Models**: Advanced hybrid models (plug-in hybrids) could see a price increase as manufacturers focus on this transition phase between combustion engines and fully electric powertrains.

4. Petrol Cars:

- **Price Stability**: Petrol cars have shown remarkable stability in price over the past two decades. This stability might persist, but prices could stagnate or gradually decline as electric and hybrid technologies become more mainstream.

- **Gradual Decline in Popularity**: As more consumers shift towards environmentally-friendly vehicles, petrol cars might become less desirable, leading to a slow decline in average price, especially for manual transmission models.
- **Automatic Preferred**: Automatic petrol cars may retain their value better than manual ones due to increasing consumer preference for convenience, especially in urban areas.

General Transmission Predictions:

- **Automatic Transmission**: There is a clear trend of automatic transmissions being more stable in price and often preferred by consumers, suggesting that cars with automatic transmissions may hold their value better in the future. This is particularly relevant as more electric and hybrid cars come with automatic systems, and fewer manual options are being produced.
- **Manual Transmission**: Manual transmission cars have shown more price volatility and may become less popular in the future, especially as new electric vehicles predominantly use automatic or single-speed transmission systems. Prices for manual cars are likely to fall, particularly for fuel types like Diesel and Petrol.

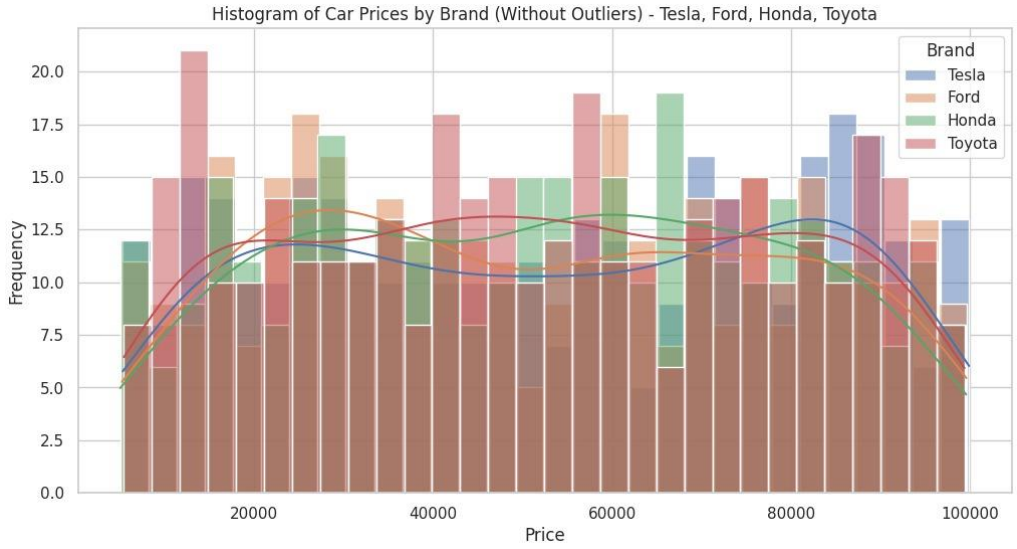
Key Market Trends to Watch:

- **Shift to Electric and Hybrid**: As governments push for stricter emissions standards and provide incentives for low-emission vehicles, electric and hybrid cars will dominate the market. This will likely lead to higher prices for new electric vehicles as demand increases, while prices for older petrol and diesel cars may decline.
- **Environmental Regulations**: Regulatory changes (e.g., potential bans on new diesel and petrol cars in certain regions) will drive further declines in fossil fuel vehicle prices, particularly for diesel cars.
- **Technological Advancements**: Continued improvements in EV technology, battery life, and charging infrastructure could reduce the cost of electric vehicles in the long term, eventually making them more affordable.

Long-Term Prediction:

- **Gradual Decline in Fossil Fuel Cars**: Diesel and petrol car prices are likely to decline steadily over the next decade as consumers shift toward electric and hybrid options.
- **Electric Car Market Expansion**: The price of electric cars may stabilize or even rise in the short term due to demand, but as EV technology matures and becomes more accessible, prices will eventually decrease.

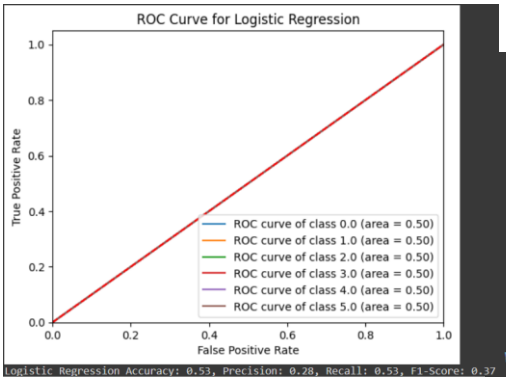
DATA PROCESSING



As We have discussed in the previous analyses the different categories and their price levels so in order to simplify the Data a little more, we took only 4 Car Companies and their budget-friendly models as the general public cares about these models the most and those who are able to afford such luxury and sports car don't even care about the cost analysis that much.

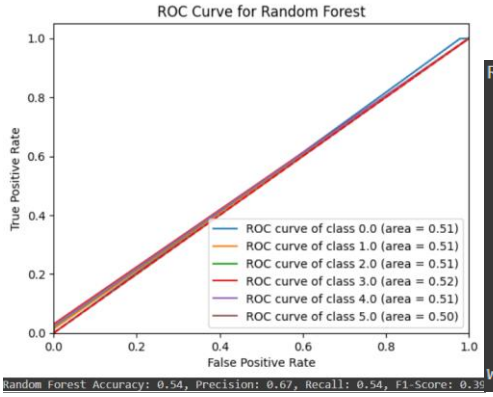
Also the price was divided in class intervals of 10k each in order to increase the accuracy and making things little simpler then the data was also transformed using Vector Assembler for making the machine learning process easier.

MODEL TESTING, COMPARISON & ANALYSIS



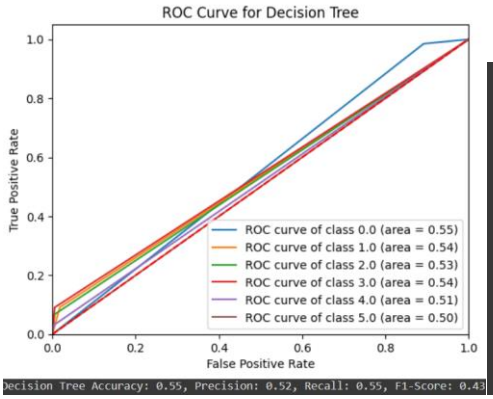
Logistic Regression Classification Report:

	precision	recall	f1-score	support
0.0	0.53	1.00	0.69	672
1.0	0.00	0.00	0.00	142
2.0	0.00	0.00	0.00	133
3.0	0.00	0.00	0.00	132
4.0	0.00	0.00	0.00	129
5.0	0.00	0.00	0.00	57
accuracy			0.53	1265
macro avg	0.09	0.17	0.12	1265
weighted avg	0.28	0.53	0.37	1265



Random Forest Classification Report:

	precision	recall	f1-score	support
0.0	0.54	1.00	0.70	672
1.0	1.00	0.01	0.03	142
2.0	0.60	0.02	0.04	133
3.0	1.00	0.03	0.06	132
4.0	1.00	0.02	0.05	129
5.0	0.00	0.00	0.00	57
accuracy			0.54	1265
macro avg	0.69	0.18	0.15	1265
weighted avg	0.67	0.54	0.39	1265



Decision Tree Classification Report:

	precision	recall	f1-score	support
0.0	0.56	0.99	0.71	672
1.0	0.39	0.09	0.15	142
2.0	0.60	0.07	0.12	133
3.0	0.67	0.09	0.16	132
4.0	0.50	0.03	0.06	129
5.0	0.00	0.00	0.00	57
accuracy			0.55	1265
macro avg	0.45	0.21	0.20	1265
weighted avg	0.52	0.55	0.43	1265

the analysis starts by setting up a Spark session to handle and analyze large car sales datasets efficiently. Firstly, data cleaning is performed by removing the unnecessary columns such as dropping 'CARID' because it doesn't have any meaning to add. The focus is only now on specific brands: Tesla, Ford, Honda, and Toyota.

then we remove price outliers using the (IQR) method to make sure that the remaining prices are within a reasonable range, making data more correct for predictions. then calculate for each car's age by subtracting its manufacturing year from the current year.

To simplify the prediction process, the prices are grouped into categories or "bins" (e.g., "0-10k," "10k-20k," etc.). These categories are then labeled to prepare the data for machine learning. We define the features (car age, engine size, and mileage) that will be used to predict the price class.

Class 0: 0-10k,

Class 1:10k-20k,

Class 2: 20k-30k,

Class 3: 30k-40k,

Class 4: 40k-50k,

Class 5: 50k or more

the three machine learning models we used here are Logistic Regression, Random Forest, and Decision Tree. Each model is measured based on matrices for instance accuracy (how well the model predicts correctly), precision (how relevant the results are), recall (how well it identifies all relevant cases), and F1-score (a balance of precision and recall). then, ROC curves are plotted for each model, which helps to determine how well each model can distinguish between different price classes.

The performance of each model is compared to select the best one for predicting car prices, ensuring the model's effectiveness in identifying car price categories based on the selected features.

When comparing the results of Random Forest, Logistic Regression, and Decision Tree, we can clearly see that the Random Forest model performs better overall, despite some

challenges with minority class detection. Here's a detailed comparison of all three models and why Random Forest is the preferred choice for predicting future prices:

1. **ROC Curve Comparison (AUC Values)**

- **Random Forest**: AUC values for all classes hover around **0.50 - 0.52**, indicating the model struggles slightly but still performs slightly better than random guessing.

- **Logistic Regression:** The AUC for all classes is **0.50**, indicating no ability to distinguish between classes, performing purely as random guessing.

- **Decision Tree**: AUC values range from **0.50 - 0.55**, with a slight improvement over **Logistic Regression** but still not significantly better.

Conclusion: While none of the models show strong AUC values, Random Forest and Decision Tree both show marginal improvements over Logistic Regression. However, Random Forest offers a slightly better ability to differentiate between classes, even if modest.

2. **classification evaluation (Precision, Recall, F1-Score**)

Random Forest:

•for **class 0** the precision is **0.54**, Recall is 1.00, F1-Score is **0.70**.

•**Other Classes (1-5),** Precision is generally high, but recall is very low, showing that it makes fewer false positive errors, it is not good with detecting minority classes.

•final accuracy is **0.54** for precision it is **0.52** for recall **0.55** and F1-score is **0.43**

logistic regression:

• for **Class 0** Precision is **0.53**, Recall is **1.00**, F1-Score is **0.69**.

• For other **Classes such as (1-5)** the Precision, recall, and F1-score are all 0.00 which means logistic regression is complete there on these classes

•finally the Accuracy is **0.53** for Precision **0.28**, for Recall **0.53**, F1-Score: **0.37**.

Decision Tree:

•**Class 0:** Precision: **0.56**, Recall**: 0.99**, F1-Score: **0.71**.

•Other Classes (1-5): Slightly better than Logistic Regression, but still poor. Precision for these classes ranges from **0.39 to 0.67**, but recall remains very low.

•final accuracy is **0.53** for precision it is **0.28** for recall **0.53** and F1-score is **0.37**

Conclusion:

•**Random Forest** achieves a balance between precision and recall, even if it struggles with small classes. It is high in precision and recall as compared to **Logistic Regression** and **Decision Tree**.

- **Logistic Regression** fails to capture minority classes entirely, making it unsuitable for the task.

- **Decision Tree** offers slightly better precision and recall than Logistic Regression but does not surpass **Random Forest**.

3**. Handling of Class Imbalance**

•**Random Forest:** Despite its shortcomings, Random Forest handles class imbalance better than both Logistic Regression and Decision Tree by slightly improving precision and recall across multiple classes.

•**Logistic Regression:** Completely fails to handle minority classes, making it unsuitable in this case.

•**Decision Tree:** it is similar in performance to the random forest but is less stable and have more overfitting which can be seen from the spreadness of precision and recall.

Conclusion: Random Forest's ability to handle class imbalance is superior to both Logistic Regression and Decision Tree, although it could still be improved with techniques like oversampling or class weighting.

4**. Model Complexity and Generalization**

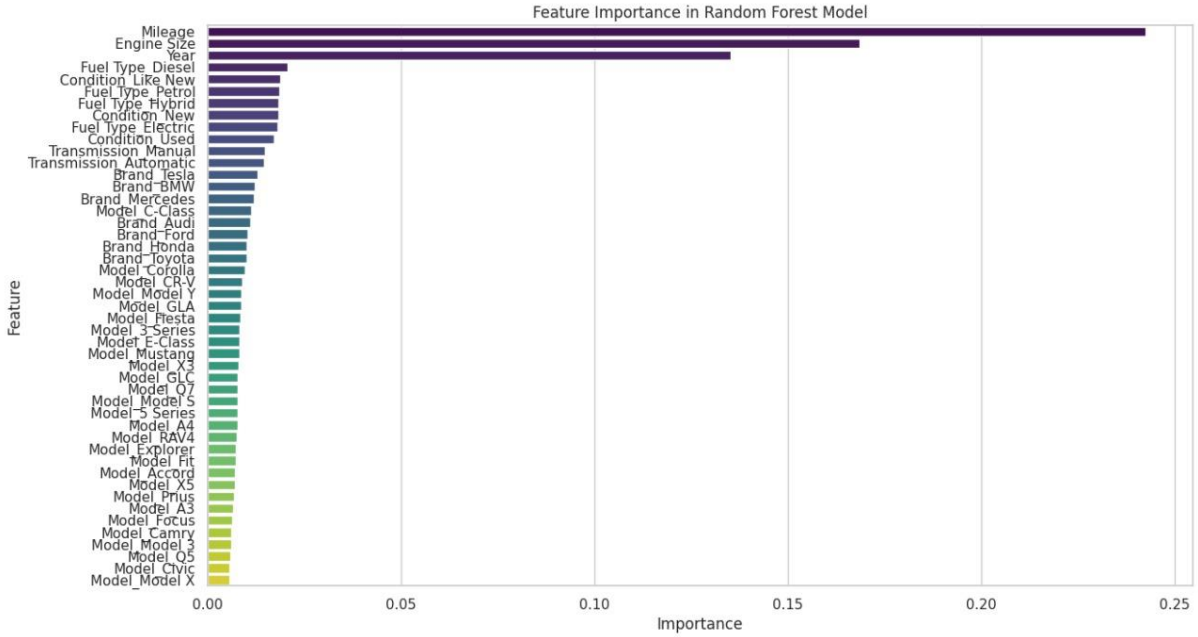
- **Random Forest:** A Random Forest is an ensemble model that generalizes better because it can reduce variance and overfitting by combining multiple decision tree models.

•**Logistic Regression**: it is a linear model that oversimplifies the relationship between the features and classes which makes it unable to handle the complexity of this dataset.

•**Decision Tree:** decision trees can capture non-linear relationships, it leads to more overfitting, especially on small datasets, leading to poor generalization.

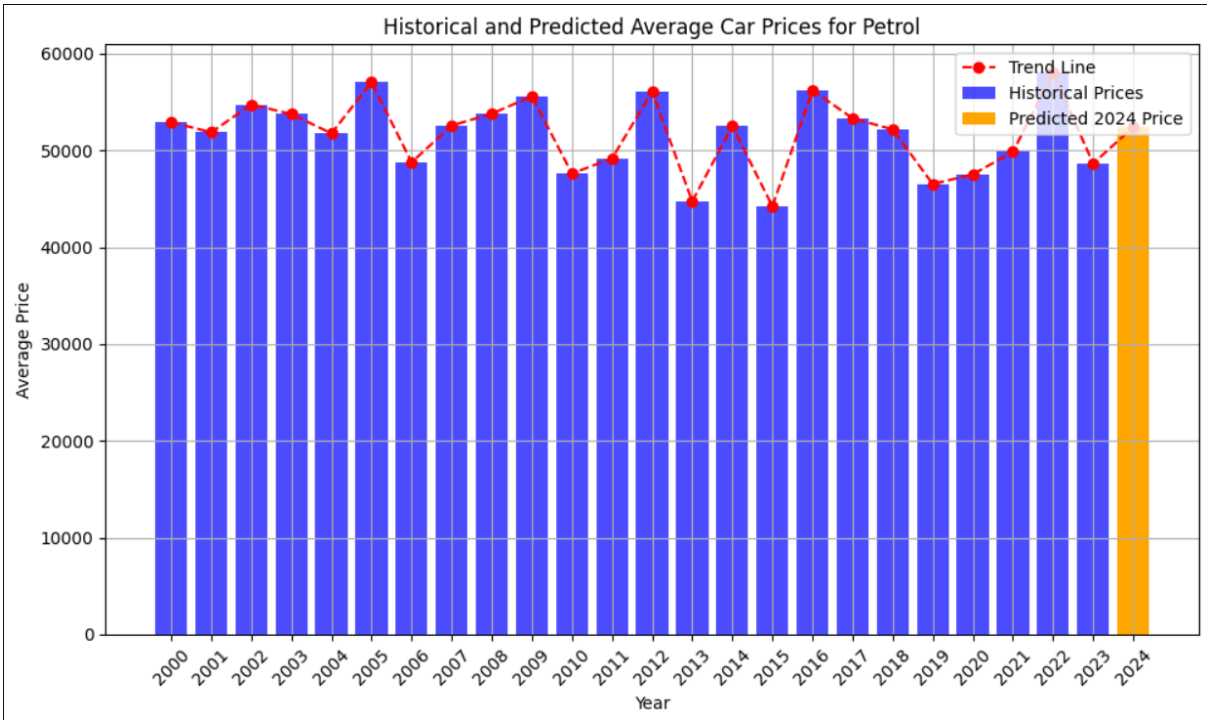
Conclusion: Random Forest is more robust than Logistic Regression and Decision Tree when it comes to generalization. It minimizes overfitting, while Decision Trees Do not. It can also model complex relationships, while logistic regression does.

RANDOM FOREST MODEL DETAILED ANALYSIS



The feature importance plot shared above highlights the factors that most influence the predictions in your random forest model. In this analysis, "Mileage," "Engine Size," and "Year" appear to have the highest importance, indicating they are the most influential variables for the model's decisions. This means that these three factors are one of the greatest factors for random forests to predict. But don't just see whats is shown in the graph because there is one more hidden meaning, as the models that if combined also have a huge influence on the prediction of the Random forest model. This insight can guide your prediction phase by focusing on these key features, which play the largest role in the model's output.

ANALYSIS & RESULTS



This graph presents the historical and predicted average car prices for petrol vehicles, allowing for a view of price trends from 2000 through the prediction for 2024.

Analysis

1. **Historical Prices (2000-2023):**

- Petrol car prices show moderate fluctuations but tend to remain within a relatively stable range from year to year.

- There is a peak around 2006-2008, followed by slight declines and rises through the 2010s, suggesting periodic shifts in demand or market adjustments.

- From 2016 onwards, prices displayed a general decline, reaching a low point around 2020. This can be due to the generic change in consumer purchasing patterns from traditional to Hybrid, or Electric vehicles.

- In the last few years (2021-2023) it looks like the prices have become stable at around $50,000 and have very little change rate as compared to before

2. Trend Line:

- The red dashed line with red dots captures these minor fluctuations. The trend line is relatively smooth, indicating that while there are slight price shifts, petrol vehicle prices have remained more stable compared to diesel and hybrid vehicles.

- This suggests that the petrol vehicle market might have fewer external influences impacting its pricing compared to other fuel types.

3. Predicted Price for 2024:

- The orange bar for 2024 shows a slight increase from 2023 but remains close to the recent average.

- This indicates that petrol car prices are expected to hold steady with only a minor uptick, aligning with the stabilizing trend seen over recent years.

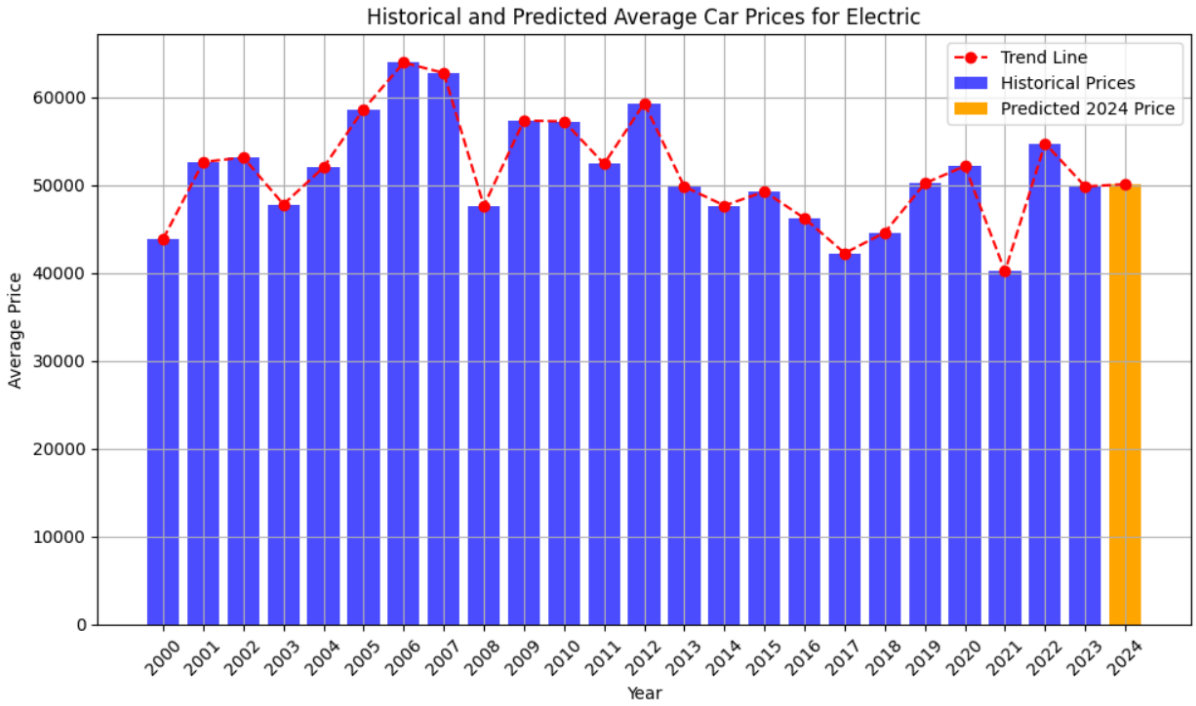
4. Overall Insights:

- Petrol car prices have shown more stability compared to diesel and hybrid prices, which may reflect a more mature market and steady demand.

- The slight increase in the predicted 2024 price suggests that petrol cars still maintain consistent demand, though this could be impacted by a further shift towards electric and hybrid vehicles in the future.

In summary, petrol car prices have shown a relatively stable trend over the years, with modest fluctuations but no extreme highs or lows. The 2024 forecast suggests continued stability with a slight increase, indicating a steady but potentially declining market as alternative fuel

vehicles gain popularity.



This graph displays historical and predicted average car prices for electric vehicles from 2000 to 2024. Here's a breakdown:

1. **Historical Data (2000-2023):**

- The graph shows certain notable changes over the year which can be seen in the graph.

- In 2 consecutive years we say that price went above $60,000.

- In 2020 to 2022 we saw some major changes as the price was a little unpredictable.

- Overall, the prices had many fluctuations but in the long term if we see the prices went up from 2000 to 2023.

2. **Trend Line:**

- The red dashed line with red points represents the trend of average prices over time.

- The trend shows periodic rises and falls but remains relatively stable from 2015 onward, although with small variations.

- This suggests that while prices have fluctuated, they haven't increased drastically in recent years.

3. **Predicted Price for 2024:**

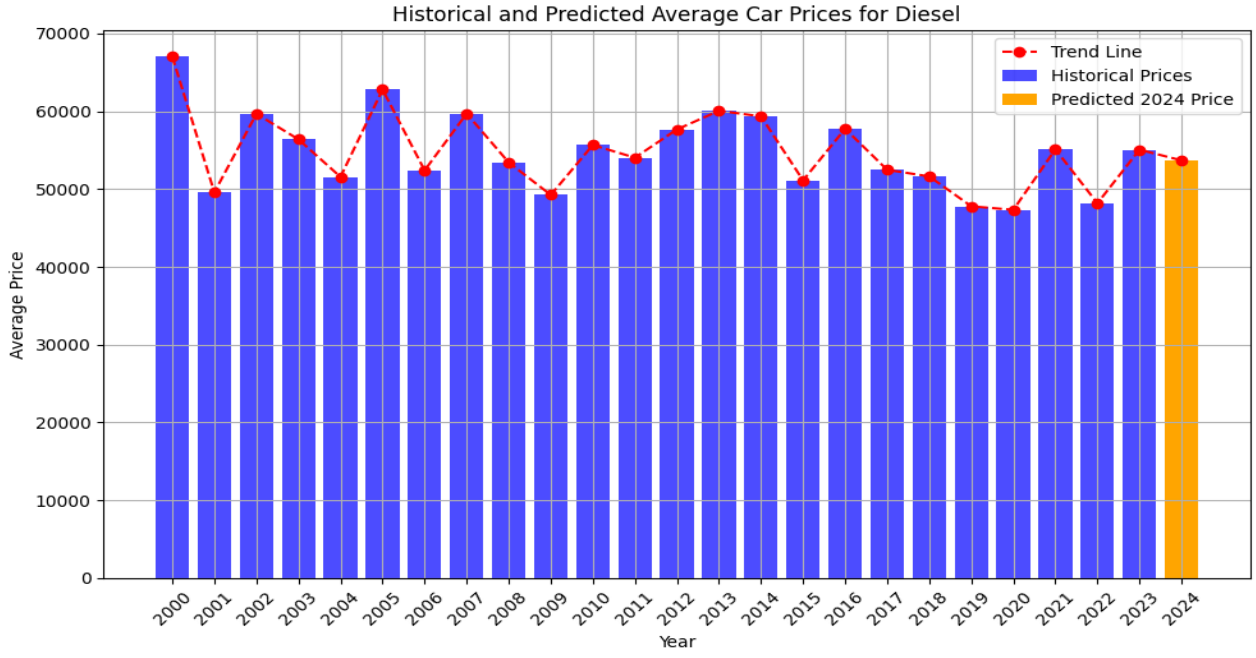
- The orange bar represents the predicted average price for 2024.

- The prediction suggests a slight increase in price from the preceding years, but not significantly different from the recent trend.

- This indicates a relatively stable forecast for 2024, without drastic changes.

Summary:

The graph illustrates a historical fluctuation in average prices for electric vehicles, with peaks around 2007 and 2020. The prediction for 2024 follows a stable trend, indicating that prices may not experience large shifts in the near term. This could reflect market maturity or stabilization in the electric vehicle segment.



This graph displays historical and predicted average car prices for Diesel vehicles from 2000 to 2024. Here's a breakdown:

1. Historical Prices (2000-2023):

- Diesel car prices show a huge amount of fluctuations over time, especially in the early 2000s. Earlier in 2000 the prices for diesel were very high and the ID suddenly dropped from there on it kept on changing without any noticeable pattern

- From 2005 to 2015,The price of the cars remained stable ib between $55,000 to $60,000 despite the uneven fluctuations

- The prices dipped notably around 2018, likely reflecting external factors such as shifts in fuel policies, the introduction of emissions regulations, or changes in demand for diesel vehicles.

- The trend in recent years (2020-2023) shows some recovery with a return to around the $55,000 range but with smaller fluctuations than in previous years.

2. Trend Line:

- The red dashed line with red dots highlights these fluctuations over time. Unlike hybrid cars, diesel prices display a more pronounced and varied pattern of peaks and dips, suggesting a more volatile market influenced by fuel type-specific factors.

- The trend line appears to flatten somewhat in recent years, indicating a period of relative stability after the volatile mid-2000s and 2010s.

3. Predicted Price for 2024:

- The orange bar for the 2024 forecast shows a slight decrease from the 2023 price, aligning closely with the recent trend line.

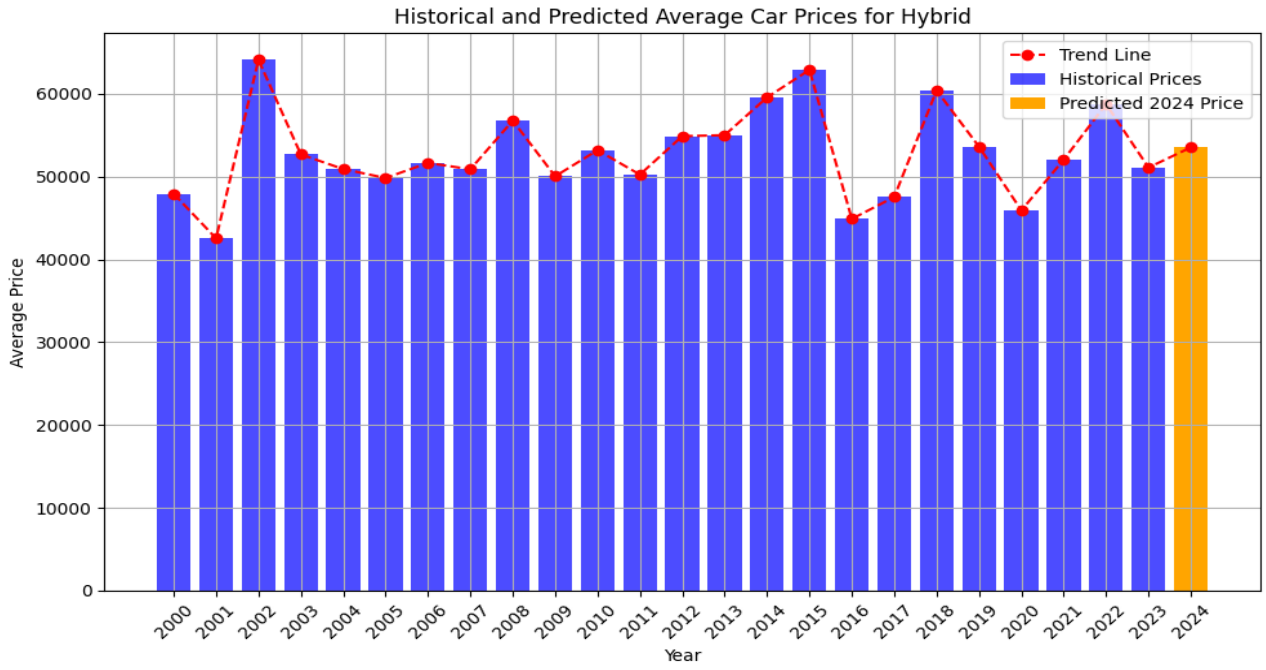
- This prediction suggests that diesel car prices may experience slight stability or a mild decline in 2024, with no expectation of a significant price spike or drop.

4. Overall Insights:

- The historically changing nature of diesel prices may be because of regulatory changes, shifting consumer preferences, and advancements in alternative fuel technologies.

- The predicted price stabilization for 2024 indicates that the diesel car market may have adjusted to current market conditions and regulations, suggesting that future prices may remain within a more controlled range if no major disruptions occur.

In summary, diesel car prices have shown considerable volatility over time but appear to be stabilizing, with 2024 expected to follow this recent trend. This could indicate a mature diesel market, with prices likely to remain steady or decline slightly barring any major changes in market dynamics.



This graph shows historical and predicted average car prices for hybrid vehicles. Here's an analysis of the trends visible in the graph:

1. Historical Prices (2000-2023):

- There are fluctuations in hybrid car prices over the years, with some sharp increases and decreases.

- The price peaks around 2001-2002, then drops slightly before stabilizing in the mid-2000s.

- Another peak occurs in 2008, potentially reflecting market conditions or changes in demand for hybrid vehicles around that time.

- Following this, prices show a pattern of periodic rises and dips, especially around 2017 and 2021.

2. Trend Line:

- The red dashed line with red dots highlights the trend, reflecting significant ups and downs over the years. This line suggests the market for hybrid cars experienced volatility but maintained an overall steady level without extreme long-term increases or decreases.

3**. Predicted Price for 2024:**

- The orange bar represents the forecasted price for 2024, which is slightly lower than 2023 but still within the historical range.

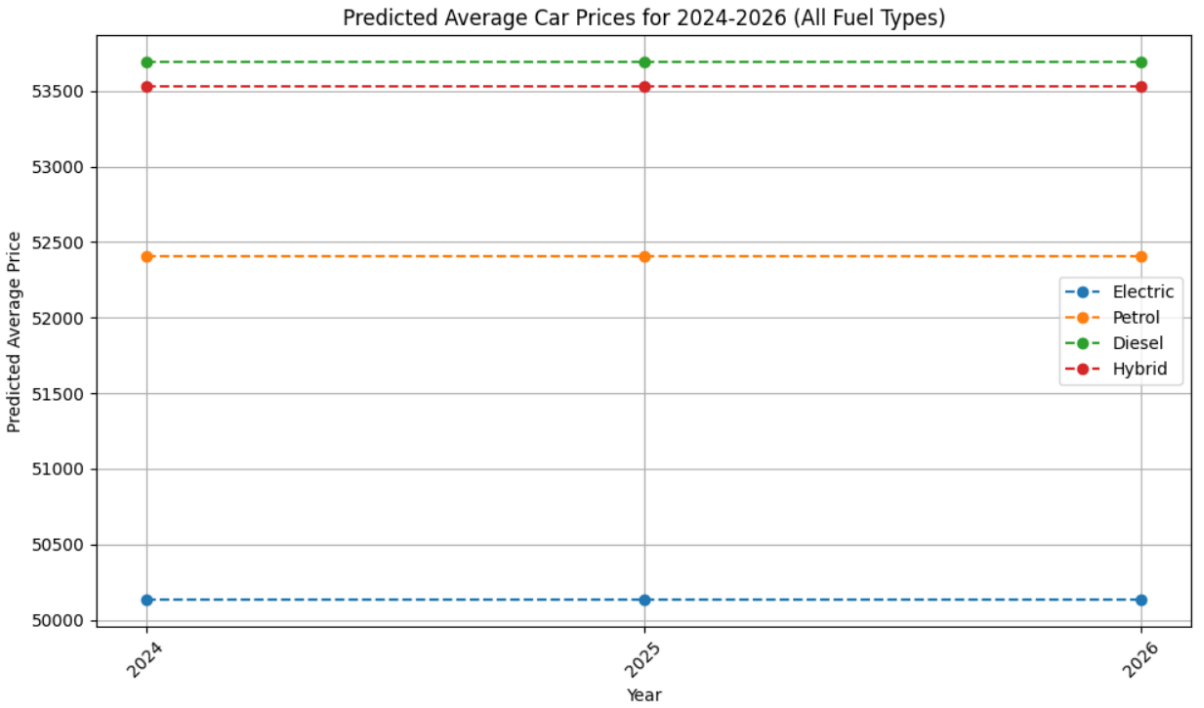
- This prediction implies a possible stabilization or slight correction in prices, aligning closely with recent price levels rather than a dramatic increase or decrease.

4. Overall Insights:

- The average price of hybrid cars shows resilience over time with some variability, likely influenced by external factors like oil prices, economic conditions, and consumer demand for hybrid technology.

- The prediction for 2024 suggests a stable trend, hinting that hybrid car prices might continue to hover around the same range without drastic changes, assuming no significant market disruptions.

Overall, this graph indicates a mature market for hybrid vehicles, with prices that have fluctuated but remained relatively stable in recent years. The forecast suggests that the market could maintain this stability into 2024.



Combining the observations for hybrid, diesel, petrol, and electric vehicles, we can analyze and compare the historical and predicted average car prices across these categories to understand trends and predict market behavior for 2024:

Comparative Analysis

1. **Historical Trends:**
    - Diesel and Petrol Vehicles: diesel and petrol both show steady prices over the years with uniform fluctuations. Diesel prices are more inconsistent, speciallyin the start of the year 2000s and mid-2010s, likely due to regulatory changes and shifts in consumer demand. Petrol prices remain steadier but still exhibit minor ups and downs over time.
    - Hybrid Vehicles: These prices demonstrate significant early fluctuations, with peaks around 2001 and 2008. However, after these years, the prices for hybrids stabilized, showing a slightly cyclical trend with fewer dramatic changes.

- Electric Vehicles: Electric vehicle prices show noticeable fluctuations as well, with peaks around 2007 and a more recent peak in 2020-2021. The price fluctuations suggest that the electric vehicle market has experienced phases of rapid growth and stabilization, likely due to technological advancements and shifts in consumer adoption.

2. **Trend Lines:**
   - Petrol and Diesel:the trend line for diesel and petrol shows the stability or decreasing pricetrend, specially in oftn years the price for petrol, which put it out over other alternatives fuel. Diesel trend line also constant after significant fluctuations in the mid-2000s and 2010s.
   - Hybrid Vehicles: The trend line for hybrids also stabilizes in recent years, reflecting a maturing market with consistent demand.
   - Electric Vehicles: Electric vehicles show a more pronounced cyclical trend, but their prices have also stabilized in recent years. This trend suggests that the market is transitioning into maturity as electric vehicle adoption becomes more mainstream.
3. **Predicted Prices for 2024:**
   - Petrol and Diesel: The predictions for both indicate slight increases or stability for 2024, with no dramatic changes expected. This suggests a stable market outlook for conventional fuel types, likely influenced by the continued shift towards hybrids and electric options.
   - Hybrid Vehicles: The predicted 2024 price for hybrids remains close to recent years, indicating that the market for hybrids is expected to remain steady, with demand continuing but not experiencing rapid price shifts.
   - Electric Vehicles: The 2024 prediction shows a slight increase in price, but it remains consistent with recent trends. This suggests stability as the market for electric vehicles matures, with prices not expected to fluctuate as widely as they did in the past.

SUMMARY OF CURRENT STUDY

- Market Maturity and Stability: Across all categories, the predictions for 2024 show a stabilization trend, reflecting market maturity. This is particularly evident in the petrol, hybrid, and electric vehicle categories, where prices show only minor expected changes.

- Diesel and Petrol Transition: Diesel and petrol car prices reflect a stabilization or slight decline, possibly due to a shift in consumer preference toward more fuel-efficient and eco-friendly options like hybrids and electric vehicles.

- Electric and Hybrid Growth: While hybrid and electric vehicles experienced significant price fluctuations in earlier years, their markets appear to have matured. Predictions suggest that these prices will remain stable, signaling a period of balanced demand and supply.

- Overall Stability in 2024: The forecasted prices for 2024 across all categories indicate a stable outlook without drastic price increases or decreases, which could be due to a combination of technological advancements, market saturation, and regulatory influence that supports a steady demand for all types of vehicles.

In conclusion, the 2024 forecast shows stability across all fuel types, suggesting a period of equilibrium in the car market. This may reflect a balanced phase where each fuel type has found its niche, with the strongest growth potential in hybrids and electric vehicles as they continue to gain consumer acceptance.

CONCLUSION

In 2024 and 2025 the automobile industry will be in a continuous state of change because the car market and preferences are gradually shifting toward Evs. This project employed a range of machine learning models, including Random Forest, Decision Tree, and Logistic Regression, to evaluate historical data and predict market changes across fuel types, including gasoline, diesel, hybrids, and electric vehicles. In managing class imbalances and correctly forecasting trends in cost-effectiveness, demand, and residual values, the Random Forest model outperformed other models. The strength of this model is its capacity to handle intricate datasets with nonlinear relationships, which makes it perfect for tracking changes across various fuel types and classifying cars into price ranges.

Predictions indicated unique pricing trends across fuel types. EVs are projected to experience steady or slightly increased prices due to high consumer demand and advancements in battery technology, positioning them as cost-competitive over the long term. Hybrid vehicles are likely to maintain price stability, appealing to consumers who want fuel efficiency and lower emissions without fully committing to electric. Diesel vehicles are expected to decline in popularity and price, reflecting stricter environmental regulations and reduced consumer interest. Petrol vehicles, though affordable, may face gradual reductions in demand as EV and hybrid options become more mainstream.

Consumer behaviour plays a very important role in these shifts, where consumers' preferences are changing from traditional (Gasoline) to modern (EVs). Also, Things like improved battery technology, government incentives, and growing charging infrastructure are also major factors for the decreased price rate of these Electronic vehicles to the public. Such a transition aligns with environmental goals and the global push for sustainable transport solutions.

In the Final Conclusion, Battery Electric Vehicles (BEVs) are emerging as the most promising fuel type in 2024. Their advantages include lower operational costs, minimal

environmental impact, and the support of a growing charging infrastructure. BEVs are well-suited to current consumer and regulatory trends, while hybrid vehicles offer a viable transition option. Diesel vehicles, on the other hand, are expected to see continued decline. The automotive market, therefore, is primed for increased competition, with brands that prioritize EVs and advanced, sustainable technologies positioned to capture the largest market share.

LIMITATIONS & FUTURE DIRECTIONS

Algorithm Selection and Tuning: I had a hard time tuning the Models Still it was not a success

Data Availability: There was a quite bit of Data that was private which created a lot of inconvenience and many time the date like mantainence cost per vehicle model was not available .

Data Preprocessing: It was quite difficult to select the data to preprocess the data as the pyspark does not allow many data processing and apply multiple transformations due to the complexity of the Data

Overfitting and Generalization: The Data was quite overfitted despite the efforts made to simplify and improve the data.

POTENTIAL AREAS FOR FUTURE RESEARCH

Market Dynamics Analysis: Analysing the market and the competition in the EV industry can be a bit tricky. it includes roles The entry of new type of vehicle like Hydrogen powered vehicles which are almost ready to used but not available in the market yet can be a good research topic

Regulatory Framework Evaluation: assessing how regulatory frameworks—such as those pertaining to fuel economy requirements, vehicle emissions standards, and incentives for clean energy technologies—affect the uptake and diffusion of EVs.

International Comparison Studies: Comparative research must be done in between various nations and regions to understand differences in each nation according to EV adoption rates, market dynamics, and policy approaches. Best practices and lessons should be identified for EV adoption promotion worldwide.

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RAW DATA

Car ID	Brand	Year	Engine Size	Fuel Type	Transmission	Mileage	Condition	Price	Model
1	Tesla	2016	2.3	Petrol	Manual	114832	New	26613.92	Model X
2	BMW	2018	4.4	Electric	Manual	143190	Used	14679.61	5 Series
3	Audi	2013	4.5	Electric	Manual	181601	New	44402.61	A4
4	Tesla	2011	4.1	Diesel	Automatic	68682	New	86374.33	Model Y
5	Ford	2009	2.6	Diesel	Manual	223009	Like New	73577.1	Mustang
6	Audi	2019	2.4	Diesel	Automatic	246553	Like New	88969.76	Q7
7	Audi	2020	4	Electric	Automatic	135486	Used	63498.75	Q5
8	Tesla	2017	5.3	Hybrid	Automatic	83030	New	17381.19	Model Y
9	Honda	2023	5.7	Electric	Manual	120360	Like New	15905.62	Civic
10	Ford	2010	1.5	Electric	Automatic	135009	Like New	9560.22	Explorer
11	Tesla	2001	1.8	Diesel	Automatic	298875	Like New	58872.6	Model 3
12	Ford	2017	5.7	Electric	Automatic	169737	Used	28074.19	Mustang
13	Ford	2006	4.7	Petrol	Automatic	114360	New	74766.45	Fiesta
14	Audi	2023	5.4	Electric	Automatic	263894	Like New	70193.74	Q7
15	BMW	2014	2	Electric	Automatic	65018	New	35220.52	X3
16	Ford	2010	3.9	Electric	Automatic	240904	Used	21796.16	Mustang
17	Mercedes	2017	4.5	Electric	Automatic	136817	New	14728.03	GLA
18	Audi	2022	4.4	Hybrid	Automatic	192803	Like New	75044.95	A3
19	Honda	2011	3	Electric	Automatic	86984	New	47791.89	Civic
20	BMW	2005	1.1	Petrol	Automatic	290595	New	35735.34	X5
21	Mercedes	2019	3.9	Petrol	Automatic	192608	Used	86382.04	C-Class
22	Mercedes	2022	2.3	Electric	Manual	12150	Used	61393.26	E-Class
23	Honda	2012	3.3	Diesel	Manual	275550	New	54210.22	CR-V
24	BMW	2019	5.8	Hybrid	Automatic	150853	New	75621.02	X5
25	Audi	2015	3	Electric	Automatic	188489	New	82480.4	Q5
26	Toyota	2017	5.2	Electric	Automatic	18325	Used	70176.95	Camry
27	BMW	2009	1.9	Electric	Manual	199756	Used	46800.6	X3
28	Honda	2022	4.4	Diesel	Manual	204541	New	41033.39	Accord
29	Mercedes	2007	5.9	Diesel	Manual	17669	Used	78308.17	GLC
30	Audi	2017	1.5	Diesel	Automatic	207836	Like New	54201.18	A3
31	BMW	2020	1	Hybrid	Automatic	132915	Used	71916.68	X5
32	Toyota	2000	3.2	Petrol	Automatic	196681	Used	89587.88	Corolla
33	Toyota	2022	1.5	Hybrid	Automatic	50812	Used	92009.61	Corolla
34	Ford	2007	4.7	Diesel	Manual	278203	Like New	31382.99	Fiesta
35	Ford	2005	5.6	Petrol	Automatic	252862	Like New	22849.55	Mustang
36	Tesla	2004	3.2	Petrol	Manual	171840	Like New	29822.3	Model 3
37	Honda	2014	2.3	Diesel	Manual	25395	New	76380.32	Fit
38	BMW	2021	3.2	Diesel	Automatic	282346	New	40155.51	5 Series
39	BMW	2014	4.6	Hybrid	Manual	229707	Like New	21471.98	X3
40	Tesla	2001	1	Diesel	Manual	247181	New	14346.62	Model X
41	Mercedes	2000	3.9	Petrol	Manual	204120	New	36094.75	E-Class
42	Mercedes	2022	4.1	Electric	Manual	224839	New	17932.96	GLA
43	Tesla	2022	4.2	Diesel	Automatic	219882	Like New	19855.49	Model Y
44	Mercedes	2010	2.2	Diesel	Automatic	103235	Used	69968.98	C-Class

45	Ford	2009	4.6	Hybrid	Manual	45510	Like New	6874.55	Explorer
46	BMW	2017	1.5	Hybrid	Automatic	87945	Like New	16167.56	5 Series
47	Tesla	2017	2	Diesel	Manual	242802	New	85214.72	Model S
48	BMW	2016	5.4	Petrol	Automatic	250168	New	85266.84	X5
49	Toyota	2007	4.7	Petrol	Automatic	2881	Used	36278.13	Prius
50	Ford	2014	1.1	Electric	Automatic	111860	Used	13355.54	Explorer
51	Audi	2007	2.2	Diesel	Automatic	166415	Used	71972.18	Q5
52	Ford	2016	2.1	Hybrid	Automatic	139728	Used	39212.51	Mustang
53	Tesla	2011	2.4	Petrol	Manual	267885	Like New	9319.14	Model S
54	Audi	2007	2.2	Electric	Automatic	147733	Used	19993.56	A4
55	Toyota	2013	1.3	Diesel	Manual	290834	Like New	18035.41	Camry
56	Tesla	2003	3.3	Petrol	Manual	294977	New	60966.05	Model S
57	Honda	2000	4.7	Diesel	Automatic	102566	Used	90321.17	CR-V
58	BMW	2000	4	Diesel	Manual	71240	New	80341.84	5 Series
59	Toyota	2018	4.4	Petrol	Automatic	106898	New	56919.02	Prius
60	BMW	2015	1.4	Petrol	Manual	209304	Like New	45104.74	3 Series
61	Mercedes	2013	5.8	Petrol	Manual	80522	Used	63774.29	GLC
62	Honda	2020	5.2	Diesel	Automatic	145512	Like New	47162.21	Accord
63	Honda	2015	5	Diesel	Automatic	119107	New	28379.42	CR-V
64	Toyota	2004	5.1	Electric	Automatic	22462	Used	69523.76	Camry
65	Honda	2008	5.7	Hybrid	Automatic	279965	New	87958.17	Fit
66	Audi	2001	3.7	Diesel	Manual	92889	New	40422.68	A4
67	Honda	2017	2	Hybrid	Automatic	88952	Used	84946.15	CR-V
68	BMW	2005	4.1	Petrol	Manual	193596	Used	45952.79	X3
69	BMW	2008	4.7	Diesel	Manual	177505	Used	43126.91	5 Series
70	Tesla	2000	4.7	Electric	Manual	221576	Like New	7690.81	Model X
71	BMW	2008	3.6	Electric	Manual	219393	Like New	71051.5	5 Series
72	Tesla	2015	1.3	Hybrid	Manual	275455	New	81712.74	Model S
73	BMW	2012	2.9	Petrol	Manual	254084	Used	68037.91	X5
74	Audi	2008	5.6	Hybrid	Automatic	129466	New	19379.29	A3
75	Tesla	2020	3.9	Petrol	Manual	30531	New	14812.88	Model S
76	Ford	2012	3.7	Electric	Manual	14588	New	59421.58	Fiesta
77	Mercedes	2008	2.3	Hybrid	Manual	143452	New	43144.04	GLC
78	Toyota	2010	2.8	Electric	Automatic	173717	New	45764.29	RAV4
79	BMW	2003	5.5	Electric	Automatic	161929	Used	96941.02	X5
80	Honda	2001	4.3	Petrol	Manual	21711	Like New	73772.65	Fit
81	BMW	2005	4.9	Hybrid	Automatic	136169	Used	44119.84	5 Series
82	Honda	2013	3.3	Hybrid	Manual	159465	Used	6814.43	CR-V
83	Mercedes	2003	4.2	Electric	Automatic	284220	Used	8239.09	GLC
84	Mercedes	2005	2.2	Electric	Manual	160389	Like New	70056.35	E-Class
85	Mercedes	2018	4.5	Petrol	Automatic	58480	Like New	84585.18	GLC
86	Honda	2005	3.1	Diesel	Automatic	269188	Like New	72231.75	Fit
87	BMW	2001	3.2	Diesel	Automatic	250309	Used	43559.34	X3
88	Mercedes	2017	4.2	Electric	Manual	55486	Like New	7957.9	C-Class
89	Audi	2012	5.7	Diesel	Manual	55162	New	96903.15	A3
90	Tesla	2008	1.3	Diesel	Manual	210359	Like New	98701.93	Model S
91	Honda	2022	5.1	Diesel	Automatic	29882	Used	57189.63	CR-V
92	Honda	2018	2.5	Diesel	Automatic	54078	Used	11713.74	CR-V

93	BMW	2012	3.2	Electric	Manual	238680	New	56392.39	3 Series
94	Honda	2010	1.1	Diesel	Automatic	108730	Like New	89772.15	CR-V
95	Honda	2000	2.5	Diesel	Manual	174898	Like New	69598.62	Fit
96	Mercedes	2023	3.5	Petrol	Manual	98938	New	73398.98	C-Class
97	BMW	2021	1.3	Electric	Manual	118319	Used	13072.13	5 Series
98	Mercedes	2006	3.5	Hybrid	Manual	32543	Used	15118.61	E-Class
99	Tesla	2020	5.6	Hybrid	Automatic	124279	Like New	17098.13	Model 3
100	Tesla	2014	1.5	Petrol	Automatic	29362	Like New	90915.8	Model 3
101	Mercedes	2000	4.8	Petrol	Automatic	158818	Like New	54955.72	GLA
102	Tesla	2011	3	Electric	Manual	242721	Like New	80199.63	Model S
103	BMW	2006	4.3	Hybrid	Automatic	165229	Like New	15952.67	X5
104	Toyota	2014	2.3	Diesel	Manual	142394	Used	93126.06	Camry
105	Mercedes	2020	1.8	Petrol	Manual	69812	Used	83008.5	GLC
106	Audi	2018	1.8	Hybrid	Manual	296161	Used	26352.59	A4
107	Audi	2000	1.4	Electric	Manual	228208	Used	88047.31	Q7
108	Honda	2016	1.9	Diesel	Manual	279773	New	30027.06	Accord
109	Tesla	2016	4.3	Electric	Manual	128614	Used	24507.29	Model 3
110	Audi	2002	5.4	Petrol	Automatic	96950	New	30103.17	Q5
111	Honda	2011	5.1	Hybrid	Automatic	174942	Used	91445.73	Accord
112	Toyota	2005	4.4	Hybrid	Automatic	64829	Like New	91981.24	Camry
113	BMW	2010	1.6	Hybrid	Automatic	245602	Like New	36254.6	X5
114	BMW	2002	2.4	Hybrid	Manual	10588	Like New	72016.25	3 Series
115	BMW	2007	2.5	Diesel	Manual	168217	New	69195.8	5 Series
116	Audi	2013	2.2	Diesel	Automatic	272743	Used	81623.45	A3
117	Toyota	2013	3.6	Electric	Automatic	208502	Used	33168.4	Camry
118	Audi	2009	3.7	Diesel	Automatic	134011	New	53463.16	Q5
119	Tesla	2001	2.8	Petrol	Automatic	252856	New	68429.03	Model 3
120	Audi	2013	2.8	Petrol	Automatic	284293	New	7494.4	Q5
121	Toyota	2008	5.1	Hybrid	Automatic	197639	New	40790.18	Camry
122	Toyota	2002	4.9	Petrol	Automatic	141280	New	71109.39	Prius
123	Tesla	2020	2.5	Electric	Automatic	197170	Like New	28996.53	Model S
124	Toyota	2007	5.6	Diesel	Manual	180564	Used	95981.89	Corolla
125	Toyota	2015	5.8	Diesel	Manual	20951	New	7865.33	Corolla
126	BMW	2001	2.6	Diesel	Manual	179992	Like New	96018.28	X3
127	Tesla	2005	2.8	Petrol	Manual	46766	New	25592.57	Model X
128	Ford	2020	3.5	Diesel	Automatic	159423	Like New	9638.09	Mustang
129	Ford	2011	5.7	Hybrid	Manual	87122	New	32785.03	Explorer
130	Toyota	2004	5.4	Hybrid	Automatic	271452	Used	79696.82	Corolla
131	Ford	2001	1.5	Hybrid	Manual	83211	New	76481.99	Explorer
132	Ford	2015	3	Petrol	Automatic	126534	New	24839.84	Focus
133	Toyota	2004	3.8	Diesel	Automatic	8720	Used	23695.06	RAV4
134	Ford	2014	3.5	Petrol	Manual	79993	Used	66045.09	Focus
135	Audi	2011	2	Diesel	Manual	219973	New	48517.86	Q5
136	Honda	2003	5.3	Electric	Automatic	25905	Used	80267.55	Accord
137	Tesla	2014	4.4	Electric	Automatic	204580	Used	7292.61	Model 3
138	Honda	2010	5.2	Petrol	Automatic	50385	Like New	62989.13	Accord
139	Toyota	2015	5.3	Hybrid	Manual	30653	Used	74413.84	Corolla
140	BMW	2022	4.7	Petrol	Manual	91865	Used	99371.68	3 Series

141	Tesla	2005	3.2	Hybrid	Automatic	125813	New	69484.26	Model 3
142	Toyota	2013	4.1	Diesel	Manual	145871	New	27025.29	Prius
143	BMW	2017	1.8	Hybrid	Automatic	191175	Like New	15277.69	5 Series
144	Honda	2011	4.4	Hybrid	Manual	248535	New	65887.09	Fit
145	Toyota	2010	1.9	Diesel	Manual	15052	Used	54702.39	Camry
146	Tesla	2012	4.5	Electric	Manual	137116	Used	90418.8	Model Y
147	Tesla	2020	2.1	Diesel	Manual	150943	Used	74027.76	Model 3
148	Mercedes	2022	1.6	Petrol	Manual	220375	New	53425.53	E-Class
149	Audi	2010	1.8	Petrol	Automatic	21381	Used	43341	Q7
150	Ford	2022	1	Petrol	Automatic	148346	Used	43415.6	Focus
151	BMW	2015	4.6	Petrol	Manual	243234	Like New	26498.91	3 Series
152	Mercedes	2014	4.7	Petrol	Automatic	256017	Like New	6645.97	GLA
153	Ford	2020	3.6	Electric	Automatic	235020	Like New	59616.51	Mustang
154	Ford	2014	1.8	Electric	Manual	49892	New	25179.4	Mustang
155	Toyota	2003	1.4	Hybrid	Automatic	181593	Used	24791.06	Camry
156	Ford	2010	1.1	Petrol	Manual	214992	Used	16911.22	Mustang
157	Audi	2018	1.8	Diesel	Automatic	280064	Used	23011.57	A3
158	Tesla	2014	5.5	Petrol	Automatic	278846	Like New	8019.97	Model 3
159	Mercedes	2003	2.2	Electric	Automatic	256216	Used	69051.99	C-Class
160	Ford	2020	2.8	Petrol	Automatic	264038	Used	43132.73	Fiesta
161	Toyota	2012	1.5	Electric	Automatic	293129	Used	58344.84	Camry
162	Audi	2021	2.1	Hybrid	Automatic	159359	Used	65510.97	A4
163	Honda	2018	3.6	Hybrid	Automatic	258771	Used	97386.03	Civic
164	Tesla	2001	4	Hybrid	Manual	125702	New	11485.26	Model Y
165	Tesla	2013	2.2	Electric	Manual	73527	Used	44702.18	Model 3
166	Mercedes	2003	1.3	Petrol	Manual	146511	New	28360.3	E-Class
167	Tesla	2015	3	Petrol	Manual	225692	Used	50287.63	Model Y
168	Ford	2020	2.2	Diesel	Automatic	158731	New	92444.87	Explorer
169	Toyota	2019	2.1	Electric	Automatic	287120	Used	73778.51	Corolla
170	Tesla	2013	5.8	Diesel	Automatic	235311	Used	67885.21	Model Y
171	Tesla	2014	4.1	Hybrid	Manual	198937	Used	46918.36	Model S
172	Honda	2002	3.8	Petrol	Manual	199378	Used	68755.69	CR-V
173	Honda	2007	3.1	Electric	Manual	56697	Like New	8075.66	CR-V
174	BMW	2015	3.1	Diesel	Automatic	70382	Used	60692.67	X3
175	Audi	2009	3.7	Diesel	Manual	278795	New	57608.77	A3
176	Ford	2003	4.5	Diesel	Automatic	180116	Like New	37930.84	Fiesta
177	Tesla	2017	4.5	Petrol	Manual	14633	Like New	24143.84	Model 3
178	Tesla	2001	1.9	Petrol	Automatic	79164	Used	81717.78	Model S
179	Toyota	2016	3.5	Petrol	Manual	262713	New	10116.9	Prius
180	BMW	2012	3.1	Electric	Automatic	123425	New	11618.92	X5
181	Audi	2003	5.4	Petrol	Manual	250220	Like New	46849.57	Q7
182	BMW	2010	4.2	Electric	Manual	295182	New	28992.68	5 Series
183	Mercedes	2006	3.7	Diesel	Automatic	180160	Used	75817.98	GLA
184	Audi	2011	1.6	Diesel	Automatic	204249	Used	65248.06	Q7
185	Tesla	2009	4	Hybrid	Manual	205538	Used	78390.81	Model Y
186	Tesla	2006	1.6	Petrol	Automatic	197865	Used	35844.5	Model X
187	Audi	2012	2.7	Diesel	Manual	201466	Used	75349.3	A4
188	Tesla	2006	1.7	Petrol	Automatic	187223	Like New	86918.81	Model Y

189	Ford	2023	4.5	Electric	Manual	111174	Used	37801.08	Fiesta
190	Audi	2016	2	Diesel	Automatic	137980	Used	37290.1	Q5
191	BMW	2009	3	Petrol	Manual	68447	Like New	90495.38	X3
192	Audi	2009	5.5	Diesel	Manual	205599	Like New	9730.07	Q5
193	Tesla	2023	2	Diesel	Manual	226301	Like New	38267.99	Model X
194	Ford	2003	3.5	Petrol	Automatic	279778	New	16273.89	Fiesta
195	Ford	2019	3.1	Diesel	Manual	286705	New	7753.16	Fiesta
196	Mercedes	2003	1.1	Diesel	Automatic	55063	Used	15722.59	GLA
197	BMW	2021	5	Diesel	Automatic	288065	Used	45968.35	X3
198	Honda	2006	1.3	Diesel	Automatic	19340	Used	70260.83	Accord
199	Honda	2021	3.4	Electric	Manual	62781	New	32481.83	CR-V
200	Audi	2000	3.8	Diesel	Automatic	277045	Used	85719.15	Q5
201	Mercedes	2011	4.1	Hybrid	Automatic	10638	Used	46573.48	GLA
202	Toyota	2023	4.4	Diesel	Automatic	217986	New	96981.66	Prius
203	Audi	2012	2.3	Petrol	Manual	221668	Like New	95644.79	A3
204	Mercedes	2009	1	Hybrid	Automatic	294786	New	78461.24	GLC
205	BMW	2014	4.6	Electric	Automatic	25378	Used	93578.52	3 Series
206	BMW	2012	3.7	Hybrid	Automatic	118171	New	72174.13	X3
207	BMW	2022	5.2	Hybrid	Automatic	214801	Like New	90080.4	X3
208	BMW	2021	5.1	Hybrid	Manual	64377	Like New	27465	3 Series
209	BMW	2021	5.2	Petrol	Manual	260339	Like New	37814.92	X5
210	Mercedes	2020	3.4	Petrol	Automatic	54691	Like New	76528.36	C-Class
211	Mercedes	2021	2.7	Petrol	Automatic	91782	Like New	45333.32	E-Class
212	Ford	2008	5	Electric	Automatic	259896	Like New	84546.11	Focus
213	Honda	2008	3.3	Petrol	Automatic	78343	Used	88375.69	Fit
214	Tesla	2014	1.9	Petrol	Manual	121399	Used	33474.3	Model S
215	BMW	2009	5.3	Hybrid	Manual	31357	New	83227.83	5 Series
216	Toyota	2023	5.4	Petrol	Manual	294458	Used	19655.11	Corolla
217	Tesla	2009	3.3	Diesel	Manual	70283	Like New	36748.69	Model Y
218	Mercedes	2007	1.4	Petrol	Automatic	59567	Used	54206.67	C-Class
219	Toyota	2023	2.9	Electric	Automatic	237778	New	26512.16	Prius
220	Toyota	2015	5	Electric	Manual	141758	Like New	60030.44	Prius
221	Toyota	2016	5.5	Diesel	Manual	61606	Used	59976.03	RAV4
222	Ford	2004	2	Electric	Automatic	281035	Used	24655.78	Fiesta
223	Mercedes	2003	1.3	Electric	Automatic	101732	New	80585.93	GLA
224	Toyota	2017	5.4	Hybrid	Automatic	191791	Like New	65006.23	RAV4
225	BMW	2023	2.9	Diesel	Automatic	292021	New	35187.25	X3
226	Audi	2018	3.7	Hybrid	Automatic	249465	Like New	27057.55	A4
227	Toyota	2003	5.8	Hybrid	Manual	224589	Like New	88481.26	Corolla
228	Ford	2006	1.3	Petrol	Manual	14026	Used	84395.51	Fiesta
229	Tesla	2009	4.2	Diesel	Automatic	282566	New	26827.26	Model Y
230	Mercedes	2017	1.4	Petrol	Automatic	295625	New	8382.5	GLC
231	Ford	2018	2.9	Petrol	Manual	109384	New	81430.6	Explorer
232	Toyota	2003	5	Hybrid	Automatic	252771	Like New	63473.31	Corolla
233	Mercedes	2009	3.2	Electric	Manual	58031	New	14583.79	C-Class
234	Audi	2000	6	Diesel	Manual	68232	Like New	60799.03	A3
235	Toyota	2022	3.8	Electric	Manual	143084	New	47957.36	Camry
236	Ford	2017	2.6	Hybrid	Manual	236503	New	78582.28	Focus

237	Honda	2004	2.1	Hybrid	Automatic	292104	Used	24863.06	Fit
238	BMW	2014	2.8	Hybrid	Automatic	87695	New	48049.89	X3
239	Tesla	2016	2.9	Hybrid	Manual	130066	Used	19843.19	Model X
240	Ford	2002	1.3	Hybrid	Automatic	138982	Used	95965.09	Fiesta
241	Mercedes	2011	2.8	Hybrid	Automatic	264837	Like New	78980.12	GLA
242	Toyota	2001	3.3	Electric	Automatic	115313	New	74988.63	Corolla
243	BMW	2000	4.6	Petrol	Automatic	28810	New	70569.63	3 Series
244	Toyota	2022	4.3	Electric	Manual	20092	New	45216.96	Prius
245	Mercedes	2020	4.5	Diesel	Automatic	58105	Used	92711.83	C-Class
246	Toyota	2016	1	Electric	Manual	161577	New	11927.12	RAV4
247	Honda	2021	2.1	Hybrid	Manual	204300	Like New	81309.61	Civic
248	BMW	2015	4.3	Electric	Automatic	290699	Like New	25447.11	3 Series
249	BMW	2004	3.4	Petrol	Manual	71934	New	35782.66	X3
250	Mercedes	2014	1	Diesel	Automatic	72788	Used	54345.82	GLA
251	Tesla	2002	5	Electric	Automatic	280083	Like New	79352.23	Model S
252	Honda	2006	4.9	Petrol	Manual	155223	Like New	84660.82	CR-V
253	Ford	2010	3.7	Electric	Automatic	128068	Used	60454.56	Explorer
254	Toyota	2009	1.3	Diesel	Manual	36	Like New	43288.37	Camry
255	Audi	2008	4.8	Electric	Manual	39051	Used	94917.73	Q5
256	Toyota	2013	3.9	Hybrid	Automatic	80738	Like New	28419.52	Camry
257	Toyota	2012	4.9	Electric	Automatic	60071	Used	81293.98	Camry
258	Ford	2001	4.8	Petrol	Automatic	130613	Like New	63144.71	Focus
259	Toyota	2002	5	Electric	Manual	73601	New	40805.03	Camry
260	Honda	2006	3.6	Petrol	Automatic	29873	Like New	5129.96	Civic
261	Honda	2020	1.7	Diesel	Manual	167720	Like New	47426.93	Fit
262	BMW	2017	4.4	Electric	Manual	71468	New	31288.4	X3
263	Mercedes	2002	4.1	Diesel	Automatic	288614	New	14912.93	E-Class
264	Tesla	2009	4.7	Diesel	Automatic	196201	New	12140.06	Model 3
265	Audi	2021	1.8	Electric	Automatic	8328	New	38018.04	A3
266	Toyota	2006	2	Petrol	Manual	137405	Used	63401.95	Camry
267	Toyota	2008	5.5	Diesel	Automatic	251519	Used	84564.33	Prius
268	Ford	2016	4.7	Diesel	Manual	121173	Like New	22438.51	Focus
269	Mercedes	2010	5.5	Electric	Automatic	46638	Like New	45341.18	GLC
270	Honda	2006	4.8	Electric	Automatic	273412	Like New	42235.83	Accord
271	Audi	2023	4	Electric	Manual	201675	Used	53772.43	A4
272	BMW	2013	4.3	Electric	Manual	113920	Like New	81910.79	5 Series
273	Honda	2018	5.4	Electric	Automatic	171813	Like New	57596.3	CR-V
274	Mercedes	2003	3.9	Hybrid	Automatic	7887	Used	85432.22	E-Class
275	Tesla	2005	4.2	Electric	Automatic	228978	Like New	54262.42	Model S
276	BMW	2009	1.8	Petrol	Automatic	24918	Used	62365.5	5 Series
277	Tesla	2006	3.4	Diesel	Automatic	297641	Used	46551.41	Model X
278	Ford	2012	4.6	Petrol	Manual	192081	New	83194.08	Fiesta
279	Ford	2013	2.4	Petrol	Manual	274073	New	92763.58	Explorer
280	Toyota	2003	2	Hybrid	Manual	102201	Used	65718.75	Corolla
281	Tesla	2007	2.6	Electric	Manual	210171	Used	82974.33	Model X
282	Mercedes	2004	2.2	Diesel	Automatic	290690	New	10605.32	E-Class
283	Audi	2000	2.1	Petrol	Manual	209496	Like New	91080.62	Q7
284	BMW	2003	3.1	Electric	Manual	168410	Like New	22947.88	5 Series

285	Honda	2002	5.5	Electric	Manual	82494	Like New	29369.44	CR-V
286	Mercedes	2008	3.5	Hybrid	Automatic	215859	Used	10066.36	GLA
287	Mercedes	2007	1.9	Hybrid	Manual	233853	New	96713.01	GLA
288	Ford	2000	1.4	Hybrid	Automatic	128279	Like New	85941.03	Fiesta
289	Tesla	2005	4.5	Diesel	Manual	81991	New	91752.54	Model S
290	Toyota	2008	2.9	Petrol	Automatic	290157	New	85485.54	Camry
291	Toyota	2006	5.1	Hybrid	Manual	52132	Used	50555.4	Camry
292	BMW	2003	4.3	Hybrid	Automatic	255069	Like New	92787.78	3 Series
293	Ford	2012	5	Hybrid	Manual	159156	New	97099.92	Explorer
294	Mercedes	2016	2.4	Petrol	Automatic	152215	Used	52743.86	E-Class
295	Audi	2001	4.5	Petrol	Automatic	91627	Used	21684.35	A4
296	Ford	2004	2.3	Hybrid	Manual	122772	Used	67569.14	Focus
297	BMW	2011	5.7	Hybrid	Automatic	229415	Like New	97666.64	5 Series
298	BMW	2020	4.2	Electric	Automatic	141294	Like New	87853.95	X5
299	Ford	2007	2.6	Hybrid	Manual	259013	Used	86872.44	Focus
300	BMW	2005	2.3	Diesel	Manual	16116	Like New	93712.71	5 Series
301	Ford	2007	2	Diesel	Automatic	182124	Like New	89925.46	Mustang
302	Honda	2017	4.5	Hybrid	Manual	51369	New	78746.76	Accord
303	Ford	2002	2.1	Petrol	Manual	179889	Used	73235.92	Explorer
304	Tesla	2021	4	Electric	Manual	233982	Used	30152.88	Model 3
305	Ford	2011	2.3	Petrol	Automatic	214275	Like New	64027.3	Explorer
306	BMW	2002	4.3	Hybrid	Automatic	205383	Used	54541.42	X3
307	Tesla	2021	5.1	Diesel	Automatic	291799	Used	86884.69	Model Y
308	BMW	2005	4.9	Electric	Automatic	188874	Used	51712.69	X5
309	Toyota	2001	4.8	Petrol	Automatic	47632	Like New	17135.56	Prius
310	Toyota	2022	1.9	Petrol	Automatic	211284	Like New	5472.39	Prius
311	Tesla	2011	1.4	Hybrid	Automatic	161848	Like New	69397.95	Model S
312	Honda	2001	4.5	Electric	Manual	191082	New	57241.3	Civic
313	Toyota	2005	2.8	Diesel	Automatic	213807	Used	36441.48	RAV4
314	Ford	2016	3.2	Hybrid	Automatic	196523	New	21052.35	Focus
315	BMW	2002	1.2	Electric	Manual	179884	Like New	49337.96	5 Series
316	Toyota	2001	2.3	Petrol	Manual	281039	New	14527.21	Corolla
317	Toyota	2022	1.2	Hybrid	Manual	235892	Used	36930.31	Corolla
318	Honda	2019	5.4	Petrol	Automatic	213408	Used	41025.13	Fit
319	Tesla	2007	2.2	Petrol	Manual	242718	Like New	49233.78	Model X
320	Tesla	2021	3.8	Hybrid	Automatic	192879	Like New	49328.97	Model X
321	Mercedes	2011	1.2	Hybrid	Automatic	23086	New	29415.54	C-Class
322	Honda	2003	4.3	Hybrid	Automatic	85637	Like New	85770.04	Fit
323	Ford	2004	2.6	Hybrid	Manual	158279	New	38776.63	Fiesta
324	Tesla	2012	5.5	Hybrid	Manual	151969	Used	26810.79	Model S
325	BMW	2014	5.4	Petrol	Automatic	63083	Used	21701.94	X3
326	Honda	2022	2.6	Diesel	Automatic	95028	Used	35644.95	Accord
327	Toyota	2015	5.5	Diesel	Automatic	97551	Used	11417.52	RAV4
328	BMW	2009	6	Hybrid	Manual	138355	Used	8126.21	5 Series
329	BMW	2022	5.1	Petrol	Automatic	94024	New	62488.51	5 Series
330	Toyota	2015	5.2	Diesel	Manual	262399	Used	63818.98	RAV4
331	Honda	2011	2.2	Diesel	Automatic	207627	New	55310.88	Civic
332	Toyota	2016	3.9	Diesel	Manual	15487	Used	77417.09	Corolla

333	Mercedes	2015	1.3	Petrol	Automatic	19346	New	8719.3	GLC
334	BMW	2011	1.5	Hybrid	Manual	297194	New	93917.45	5 Series
335	Audi	2007	6	Hybrid	Manual	270888	New	14031.19	Q7
336	Audi	2019	2.6	Hybrid	Manual	61596	Like New	69032.18	A4
337	Ford	2002	4.7	Electric	Manual	214469	New	17672.68	Mustang
338	Tesla	2015	5	Electric	Manual	177175	New	88591.02	Model Y
339	Toyota	2012	5.3	Electric	Manual	153048	Used	53517.76	Prius
340	Toyota	2022	6	Petrol	Automatic	6277	New	12817.89	RAV4
341	Ford	2018	2.2	Diesel	Automatic	133332	New	63588.79	Fiesta
342	Ford	2007	1.2	Diesel	Automatic	240515	Like New	5865.44	Fiesta
343	Ford	2021	3.1	Petrol	Automatic	260577	Used	78722.11	Mustang
344	BMW	2004	1.7	Petrol	Manual	196955	Like New	66805.57	X5
345	Mercedes	2019	1.1	Hybrid	Automatic	286885	Like New	25199.35	E-Class
346	Toyota	2007	2.8	Hybrid	Manual	299355	Like New	40601.34	Camry
347	BMW	2023	4.9	Electric	Manual	240464	New	5741.64	X5
348	Ford	2011	3.8	Electric	Manual	258445	Like New	70899.96	Focus
349	Toyota	2000	2.6	Petrol	Automatic	269013	Like New	35653.47	Corolla
350	BMW	2020	4.3	Electric	Manual	94515	Used	59300.95	3 Series
351	Mercedes	2019	2.2	Diesel	Automatic	150494	Used	95889.12	GLC
352	BMW	2005	1.1	Petrol	Automatic	166685	Used	33449.34	X5
353	Mercedes	2021	4.8	Petrol	Automatic	188088	Used	99072.6	C-Class
354	Ford	2017	4.1	Diesel	Automatic	60110	Like New	65109.2	Focus
355	Mercedes	2007	4.8	Hybrid	Automatic	219601	Used	27998.42	GLA
356	Toyota	2006	1.2	Hybrid	Manual	208994	New	46493.9	Camry
357	Ford	2000	5.2	Diesel	Manual	296177	Like New	75343.05	Mustang
358	Toyota	2020	4.1	Diesel	Automatic	260705	Used	47415.4	RAV4
359	Audi	2015	3.8	Electric	Manual	12938	Like New	11508.22	A4
360	Honda	2011	4.1	Petrol	Automatic	130842	Used	21017.35	Accord
361	Mercedes	2005	5.3	Electric	Manual	264418	Like New	80173.29	C-Class
362	Honda	2019	3.9	Diesel	Manual	150033	Used	66595.44	Civic
363	Honda	2001	3.9	Electric	Manual	20044	New	59133.42	Accord
364	Mercedes	2013	6	Diesel	Manual	99372	Used	20924.09	E-Class
365	Ford	2003	4.8	Electric	Manual	276850	Like New	84586.96	Fiesta
366	Audi	2000	3.2	Electric	Manual	137046	Like New	96270.31	Q7
367	Toyota	2022	4.5	Hybrid	Manual	21213	New	8884.27	Prius
368	BMW	2017	2.9	Diesel	Manual	1950	Like New	12413.03	X3
369	Toyota	2012	2.1	Electric	Manual	254043	New	89048.83	RAV4
370	BMW	2001	4	Petrol	Manual	216085	Like New	82477.46	X5
371	Toyota	2008	5.6	Electric	Manual	272555	Like New	63703.77	Prius
372	Mercedes	2020	5.6	Electric	Manual	148843	New	94771.69	GLA
373	Audi	2001	2.7	Petrol	Manual	297197	Like New	66410.9	Q5
374	BMW	2008	3.6	Diesel	Automatic	248966	Like New	25518.6	3 Series
375	Tesla	2000	2.1	Hybrid	Manual	138117	New	74221.02	Model X
376	Ford	2010	6	Hybrid	Manual	29714	Used	66342.48	Explorer
377	Toyota	2002	5.9	Hybrid	Manual	165458	New	98645.75	RAV4
378	Toyota	2019	4.2	Petrol	Manual	270706	Like New	25320.09	Corolla
379	BMW	2022	5	Electric	Manual	12026	Used	61799.07	3 Series
380	Ford	2003	4.6	Diesel	Manual	106147	Used	79115.91	Fiesta

381	Ford	2017	4	Electric	Automatic	31589	Used	37203.39	Fiesta
382	Mercedes	2022	1.3	Hybrid	Automatic	108199	New	41069.56	C-Class
383	Tesla	2005	3.3	Electric	Automatic	288988	Used	89350.67	Model Y
384	Mercedes	2002	4.4	Petrol	Manual	208574	Used	43398.51	E-Class
385	Mercedes	2021	4.4	Petrol	Manual	214340	Used	64349.62	GLA
386	Mercedes	2010	2.9	Diesel	Manual	54708	Like New	89477.62	GLC
387	Mercedes	2014	5.7	Diesel	Automatic	70825	New	24933.53	C-Class
388	Mercedes	2021	1.8	Hybrid	Manual	51574	New	98278.34	GLA
389	Audi	2004	3.5	Diesel	Manual	232409	Like New	71685.59	A3
390	Ford	2019	4.5	Electric	Automatic	186381	Used	52131.56	Explorer
391	Mercedes	2009	4.5	Petrol	Automatic	64230	Like New	45937.45	C-Class
392	Ford	2011	4.2	Petrol	Manual	254451	Like New	95664.64	Mustang
393	Ford	2014	2.4	Petrol	Manual	247174	Used	24543.86	Fiesta
394	Honda	2016	1.8	Diesel	Manual	219700	Used	34609.91	CR-V
395	Audi	2009	4.2	Petrol	Manual	287249	New	34240.31	Q5
396	Mercedes	2005	4	Petrol	Automatic	246514	Used	32455.6	GLA
397	Toyota	2017	1.9	Petrol	Manual	264491	Like New	49511.11	RAV4
398	BMW	2012	4.5	Hybrid	Manual	226094	Like New	98972.03	5 Series
399	Tesla	2002	3.3	Hybrid	Automatic	148182	Used	89434.74	Model X
400	Toyota	2023	4.3	Diesel	Manual	193242	New	36155.21	Corolla
401	Audi	2009	5.2	Petrol	Manual	182873	Like New	45172.66	A4
402	BMW	2013	1.8	Diesel	Automatic	124926	Used	68600.67	3 Series
403	Audi	2005	1.1	Petrol	Automatic	81147	New	6629.41	Q5
404	Ford	2002	4.9	Petrol	Manual	19199	New	82914.6	Explorer
405	BMW	2015	4	Petrol	Automatic	183208	Like New	88580.82	5 Series
406	Ford	2006	4.5	Diesel	Automatic	220868	Like New	86434.03	Explorer
407	Toyota	2019	5.2	Diesel	Manual	120787	New	40630.17	Corolla
408	Toyota	2013	5	Petrol	Automatic	114427	New	48889.95	Corolla
409	BMW	2008	5.8	Electric	Manual	148063	New	6176.89	3 Series
410	BMW	2014	3.7	Diesel	Manual	153625	Used	42942.56	X5
411	Mercedes	2020	3.4	Hybrid	Manual	220782	Like New	48740.55	GLA
412	Audi	2002	3	Diesel	Manual	87493	New	91162.56	Q7
413	Mercedes	2001	1.8	Petrol	Automatic	274915	Like New	89928.83	GLA
414	Audi	2001	3.9	Electric	Manual	125607	Like New	96779.22	Q7
415	Mercedes	2002	2.4	Petrol	Manual	246834	Like New	89084.97	GLA
416	Ford	2017	5.6	Hybrid	Manual	79876	New	5779.07	Fiesta
417	BMW	2013	3.9	Diesel	Manual	167071	Used	65938.78	3 Series
418	Toyota	2019	4	Diesel	Automatic	202959	New	11482.58	Prius
419	Audi	2017	2.8	Petrol	Automatic	243722	Like New	30896.46	A4
420	Audi	2009	1.3	Petrol	Automatic	44440	New	59939.22	Q7
421	Toyota	2001	1.2	Hybrid	Manual	31655	New	71558.31	Camry
422	Mercedes	2021	3.1	Electric	Automatic	43039	Like New	67190.04	GLA
423	Audi	2000	1.4	Hybrid	Automatic	72219	Like New	9660.54	Q7
424	Tesla	2003	4	Electric	Manual	186061	New	14842.37	Model S
425	Ford	2013	5.4	Diesel	Automatic	273388	New	17215.75	Fiesta
426	BMW	2000	5.4	Electric	Manual	94594	New	13684.37	X3
427	Toyota	2013	4.3	Electric	Automatic	170623	New	21932.27	Prius
428	BMW	2015	2.1	Diesel	Automatic	194302	Used	70406.34	5 Series

429	Tesla	2021	5.3	Diesel	Automatic	290515	New	83929.54	Model 3
430	Audi	2013	5.4	Diesel	Automatic	159950	Used	43837.32	Q5
431	Audi	2019	2	Hybrid	Manual	167229	Like New	70814.24	A3
432	Tesla	2002	4.7	Diesel	Manual	5914	Used	24001.54	Model Y
433	Toyota	2002	2.4	Petrol	Automatic	214772	Like New	97461.61	Prius
434	Ford	2008	5	Diesel	Manual	289324	Used	38249.76	Fiesta
435	Honda	2005	6	Diesel	Automatic	227561	Like New	85357.36	Accord
436	Toyota	2012	1.2	Diesel	Automatic	187435	New	94809.81	Camry
437	Honda	2020	5.5	Electric	Automatic	95213	Used	87147.83	Fit
438	Tesla	2001	4.1	Hybrid	Automatic	37805	Used	11371.43	Model S
439	Mercedes	2007	5.9	Diesel	Automatic	126599	Like New	66779.18	C-Class
440	Honda	2020	3.3	Hybrid	Automatic	153775	Like New	16408.62	Civic
441	Ford	2001	5.2	Petrol	Manual	190093	Used	5537.99	Mustang
442	Mercedes	2003	1.3	Petrol	Manual	74176	Like New	9919.43	GLA
443	Honda	2014	2.7	Diesel	Automatic	94799	New	92034.17	Civic
444	Tesla	2003	1.3	Petrol	Manual	98385	Used	91304.03	Model 3
445	Mercedes	2012	5.9	Hybrid	Automatic	235654	New	26453.32	C-Class
446	Tesla	2011	5.1	Electric	Manual	88919	Used	56970.82	Model Y
447	Honda	2012	5.3	Diesel	Manual	81462	New	95727.68	Accord
448	Tesla	2013	5.7	Petrol	Manual	179340	Used	52187.08	Model Y
449	Ford	2019	1.4	Hybrid	Automatic	165320	Like New	42389.89	Mustang
450	Honda	2017	2.9	Hybrid	Manual	31159	Used	50908.63	CR-V
451	Honda	2005	1.4	Petrol	Automatic	42039	New	80070.5	Fit
452	Honda	2010	2.1	Hybrid	Automatic	232974	Used	50341.38	Civic
453	Toyota	2001	2.1	Hybrid	Automatic	47800	New	79411.38	Camry
454	Toyota	2022	3.3	Diesel	Manual	94626	New	46011.26	Corolla
455	Toyota	2018	2.3	Hybrid	Manual	118368	New	28940.54	RAV4
456	Ford	2018	1.5	Petrol	Manual	174735	Like New	36014.91	Explorer
457	Mercedes	2004	1.8	Diesel	Automatic	80903	Used	12393.23	C-Class
458	Tesla	2018	1.7	Petrol	Automatic	118998	New	52251.21	Model X
459	Audi	2001	5.9	Electric	Manual	241324	Like New	19070.54	Q5
460	Honda	2009	4.8	Petrol	Automatic	233229	New	82096.97	Accord
461	Tesla	2001	5.8	Petrol	Manual	61748	Used	44956.1	Model S
462	Honda	2010	3.2	Diesel	Manual	41190	Like New	77675.22	CR-V
463	Ford	2017	2.4	Hybrid	Manual	40318	New	95673.74	Explorer
464	Honda	2023	5	Petrol	Manual	168090	New	85700.41	Accord
465	Toyota	2014	2.6	Diesel	Automatic	124078	New	95389.05	Camry
466	Audi	2008	2.5	Electric	Manual	39759	Used	58953.97	Q7
467	BMW	2022	2.2	Diesel	Manual	278642	Like New	20705.82	X3
468	Honda	2018	1.6	Diesel	Manual	25989	Like New	93862.62	Accord
469	Tesla	2008	2.3	Hybrid	Manual	156640	Like New	87507.92	Model X
470	Toyota	2002	2.8	Petrol	Manual	161171	New	87119.23	Corolla
471	BMW	2020	4.4	Electric	Manual	285626	Like New	70861.07	3 Series
472	Audi	2008	1.3	Diesel	Manual	292192	New	64367.04	Q7
473	BMW	2013	2.1	Petrol	Automatic	35814	Used	6398.77	X5
474	Toyota	2018	5	Petrol	Automatic	190766	Like New	76065.14	Corolla
475	Mercedes	2006	1.7	Diesel	Automatic	60204	New	13695.84	E-Class
476	Mercedes	2015	2.7	Petrol	Automatic	32844	Like New	29676.34	GLA

477	BMW	2015	5.3	Diesel	Manual	248827	Like New	57391.58	X3
478	Ford	2000	1.8	Diesel	Automatic	245256	Used	47914.6	Fiesta
479	Tesla	2003	1.4	Diesel	Automatic	21518	Like New	6498.57	Model X
480	Tesla	2003	3.4	Electric	Automatic	23052	Used	83278.58	Model S
481	BMW	2006	2.5	Diesel	Manual	256346	Like New	88486.09	X3
482	Honda	2007	3.8	Hybrid	Automatic	69803	Like New	69777.93	Fit
483	Honda	2016	5	Petrol	Automatic	71524	Like New	56401.45	Accord
484	Tesla	2004	1.7	Electric	Manual	224582	Like New	96270.09	Model X
485	Tesla	2006	3.9	Petrol	Automatic	67021	Like New	16395.84	Model 3
486	Mercedes	2019	3.5	Electric	Manual	211321	Like New	75101.46	GLA
487	Ford	2019	1.7	Hybrid	Automatic	282187	Used	17194.26	Explorer
488	Toyota	2003	4.1	Electric	Manual	2419	Used	41275.26	Prius
489	Honda	2005	2.4	Electric	Automatic	187964	New	60621.03	Civic
490	Tesla	2006	3.4	Electric	Automatic	121831	Like New	75023.33	Model S
491	Mercedes	2017	1.4	Petrol	Automatic	244688	Used	5353.03	GLA
492	Audi	2004	3.3	Diesel	Manual	101799	Like New	29756.8	Q5
493	Mercedes	2019	2.5	Petrol	Automatic	194941	Like New	56129.04	GLA
494	Honda	2002	5.1	Diesel	Manual	176282	Used	55623	Fit
495	Honda	2006	1.3	Petrol	Manual	108611	Like New	65574.51	Civic
496	Mercedes	2021	3.1	Hybrid	Manual	137559	Used	33866.09	C-Class
497	Toyota	2013	3.3	Hybrid	Manual	62112	Used	56350.28	Corolla
498	BMW	2006	4.6	Electric	Automatic	239040	New	23029.74	5 Series
499	Honda	2004	3.9	Hybrid	Automatic	278504	New	22752.86	CR-V
500	Mercedes	2021	4.3	Electric	Automatic	233451	New	59773.58	GLA
501	Tesla	2004	4.9	Diesel	Manual	221490	New	70119.9	Model X
502	Mercedes	2022	5.3	Hybrid	Automatic	265161	Like New	16438	GLA
503	Ford	2001	2.6	Diesel	Manual	191196	Like New	16665.04	Mustang
504	BMW	2020	3.7	Petrol	Manual	247418	New	58703.76	5 Series
505	Audi	2021	5.2	Diesel	Manual	221370	Used	30659.1	Q7
506	Toyota	2005	5.9	Petrol	Automatic	189340	Used	42277.91	Corolla
507	Audi	2014	5.4	Diesel	Automatic	66320	Used	43071.1	A3
508	BMW	2020	2.9	Diesel	Manual	235067	Used	21962.52	X3
509	BMW	2009	2	Hybrid	Automatic	212373	Like New	5124.89	3 Series
510	BMW	2022	3.4	Diesel	Automatic	293271	Used	86049.42	5 Series
511	Audi	2023	4.7	Hybrid	Manual	180786	Used	72925.19	Q7
512	Tesla	2006	3.5	Hybrid	Manual	294065	New	70601.16	Model 3
513	BMW	2004	3.4	Electric	Automatic	266890	Used	56917.99	3 Series
514	Mercedes	2000	5.2	Electric	Manual	65350	Like New	71592.12	E-Class
515	Audi	2012	2.8	Petrol	Manual	181417	Used	93890.4	A4
516	BMW	2020	5.3	Diesel	Automatic	240678	Used	68239	X5
517	Mercedes	2017	3	Petrol	Automatic	22063	Like New	30183.68	GLA
518	Tesla	2012	2.6	Diesel	Manual	117116	New	59203.2	Model X
519	Ford	2020	3.3	Electric	Automatic	177043	Like New	47020.82	Fiesta
520	Tesla	2020	4.8	Electric	Manual	134670	New	57859.82	Model Y
521	BMW	2017	1.6	Diesel	Manual	10564	Used	54173	5 Series
522	Audi	2004	2	Diesel	Automatic	242124	New	86583.65	A4
523	Honda	2012	5.8	Electric	Manual	227506	New	66921.01	CR-V
524	BMW	2003	1.9	Electric	Manual	86134	New	22932.06	3 Series

525	Honda	2016	3.8	Petrol	Manual	105940	Used	10986.59	Accord
526	Mercedes	2002	3.9	Electric	Automatic	62085	New	45314.56	E-Class
527	Ford	2016	3.4	Diesel	Automatic	17862	New	6483.01	Focus
528	Toyota	2010	4.2	Petrol	Automatic	272409	Used	35238.25	RAV4
529	Tesla	2020	2.1	Diesel	Manual	140777	Like New	39962.04	Model Y
530	Ford	2019	3.8	Hybrid	Manual	186351	Like New	40680.94	Explorer
531	BMW	2022	2.9	Petrol	Automatic	62471	Like New	98038.25	X3
532	Honda	2020	4.3	Diesel	Automatic	91080	Used	33870.58	Civic
533	Tesla	2003	1.7	Electric	Automatic	108007	Used	30196.61	Model X
534	Honda	2001	3.9	Hybrid	Manual	46104	Like New	17291.19	Accord
535	Audi	2019	1.9	Diesel	Automatic	40934	New	53545.84	A4
536	Honda	2015	2.4	Petrol	Manual	254606	Like New	19599.06	Fit
537	Audi	2017	2.1	Diesel	Automatic	6050	Used	63548	A3
538	Mercedes	2007	1.9	Hybrid	Manual	175024	New	19740.18	E-Class
539	Tesla	2002	5.1	Petrol	Manual	270628	New	59783.97	Model X
540	Tesla	2008	2.4	Hybrid	Automatic	184750	Used	83495.58	Model S
541	Toyota	2019	5.6	Diesel	Manual	31323	New	9039.84	RAV4
542	BMW	2005	5.8	Electric	Automatic	86332	Like New	44875.96	5 Series
543	Audi	2009	3.9	Electric	Manual	255540	Used	48799.65	A3
544	Toyota	2020	1.7	Diesel	Manual	254547	Used	80151.85	Prius
545	Honda	2009	2.9	Diesel	Automatic	272459	Used	49451.99	CR-V
546	Honda	2012	5	Diesel	Manual	157591	Used	58915.9	Accord
547	Toyota	2016	2.8	Petrol	Automatic	271251	New	80164.4	Prius
548	Tesla	2008	1.4	Hybrid	Automatic	55781	Used	58177.06	Model S
549	Honda	2016	3.8	Hybrid	Automatic	266013	Used	39038.44	Accord
550	Mercedes	2023	5.2	Hybrid	Manual	7971	New	13155.02	C-Class
551	Mercedes	2008	5	Diesel	Manual	254927	Used	74341.98	GLC
552	Toyota	2008	1.9	Hybrid	Manual	287795	New	87758.12	RAV4
553	Audi	2000	4.4	Diesel	Automatic	23446	New	97156.13	A4
554	Audi	2001	2.1	Petrol	Automatic	257419	Used	93026.99	A4
555	Toyota	2015	2.1	Electric	Manual	169180	Like New	80754.7	Corolla
556	Audi	2000	5.4	Diesel	Manual	3823	Used	66129.83	Q5
557	Tesla	2009	2.2	Diesel	Automatic	144526	Like New	79238.71	Model X
558	Tesla	2017	2.3	Electric	Manual	135004	New	46047.95	Model X
559	Audi	2007	1	Electric	Automatic	205162	Like New	61503.74	A4
560	Mercedes	2020	5.4	Petrol	Manual	67965	Used	38126.48	GLA
561	Audi	2010	5	Hybrid	Automatic	272654	Used	36037.38	Q7
562	Tesla	2022	4.1	Diesel	Manual	141609	Like New	76885.72	Model X
563	Ford	2001	4.8	Hybrid	Manual	105935	Used	48123.61	Explorer
564	BMW	2007	1.8	Diesel	Automatic	233705	Like New	25155.32	X5
565	Honda	2021	3.3	Petrol	Automatic	253978	New	24184.13	CR-V
566	Ford	2007	2.8	Electric	Automatic	144854	Like New	86621.37	Mustang
567	Audi	2016	1.5	Petrol	Manual	78004	Like New	69387.25	A4
568	Mercedes	2014	3.4	Electric	Automatic	22072	Like New	56874.38	GLC
569	Toyota	2016	5.6	Hybrid	Automatic	81015	Like New	43089.18	Corolla
570	Audi	2022	1.2	Hybrid	Manual	225075	New	45927.65	Q5
571	Mercedes	2023	2.5	Petrol	Automatic	220010	New	10456.34	GLA
572	BMW	2012	2	Electric	Automatic	72746	New	48216.46	3 Series

573	Audi	2018	2.2	Petrol	Automatic	176774	Like New	80568.22	Q5
574	Tesla	2004	5.5	Electric	Manual	128259	New	41858.72	Model X
575	Toyota	2011	3.3	Electric	Manual	30916	Used	41440.22	Camry
576	Mercedes	2000	3.3	Hybrid	Manual	27268	New	6493.08	GLA
577	Mercedes	2022	4.8	Hybrid	Automatic	175050	Like New	48494.35	E-Class
578	Mercedes	2004	1.8	Electric	Manual	243966	Used	7407.08	C-Class
579	BMW	2007	3.4	Electric	Automatic	23259	Like New	59183.2	5 Series
580	Audi	2012	3.1	Electric	Automatic	79400	Used	53144.42	Q5
581	BMW	2007	4	Hybrid	Automatic	296437	Like New	84800.81	3 Series
582	Honda	2022	6	Hybrid	Manual	111581	Like New	60269.16	Accord
583	Honda	2010	4.8	Diesel	Manual	7043	Used	35725.6	Accord
584	Audi	2000	3	Electric	Automatic	181502	New	54041.95	Q7
585	Tesla	2012	5.1	Diesel	Automatic	107009	Used	71472.1	Model Y
586	BMW	2018	1.9	Electric	Manual	209137	Used	13926.56	X5
587	Toyota	2023	1.2	Hybrid	Manual	161940	Used	64002.04	RAV4
588	Mercedes	2002	2	Diesel	Manual	288453	Used	92079.5	E-Class
589	Mercedes	2023	2.7	Diesel	Automatic	285428	Used	33417.38	GLC
590	Audi	2016	3.6	Petrol	Manual	113259	Like New	64529.38	A4
591	Tesla	2004	4.1	Electric	Manual	100804	Like New	83026.3	Model 3
592	Honda	2019	5.6	Hybrid	Manual	69000	New	53621.61	Accord
593	Honda	2020	3.5	Petrol	Automatic	84179	New	73208.06	Accord
594	Mercedes	2007	3.5	Petrol	Manual	291409	Used	34545.98	C-Class
595	Audi	2013	1.3	Electric	Automatic	260226	New	34075.55	A3
596	BMW	2003	1.2	Petrol	Automatic	23880	New	68420.48	X3
597	Honda	2010	3.8	Electric	Automatic	201264	Used	72013.84	Civic
598	BMW	2019	3.2	Petrol	Manual	172438	Like New	94015.92	X5
599	Tesla	2014	5.2	Electric	Manual	245352	Like New	26359.66	Model Y
600	Honda	2018	1.8	Hybrid	Manual	67396	New	49480.67	Civic
601	Honda	2006	1.1	Electric	Automatic	279250	Like New	28798.78	CR-V
602	Ford	2018	3.2	Electric	Manual	56731	Like New	12608.76	Focus
603	Honda	2018	2.2	Diesel	Automatic	75010	New	43306.9	Fit
604	Toyota	2010	1.2	Hybrid	Manual	249091	Used	40537.67	Prius
605	Audi	2004	4.6	Hybrid	Manual	294743	New	30691.24	A4
606	Audi	2004	1.6	Hybrid	Manual	71326	New	33214.51	A4
607	BMW	2021	4	Petrol	Manual	248876	New	39239.12	3 Series
608	Tesla	2007	2.4	Diesel	Automatic	9004	Used	98939.58	Model 3
609	Honda	2009	1.9	Hybrid	Automatic	115018	Used	79380.99	Civic
610	Toyota	2005	2.9	Petrol	Automatic	25792	Used	11783.11	Prius
611	BMW	2014	5	Petrol	Automatic	54645	Used	87879.25	5 Series
612	Ford	2015	3	Petrol	Manual	7232	New	65163.82	Fiesta
613	BMW	2016	4.8	Diesel	Automatic	54766	Like New	89606.41	X5
614	BMW	2007	1.6	Petrol	Automatic	120601	New	37462.42	X5
615	Honda	2007	4.9	Diesel	Automatic	81588	Used	49129.29	Fit
616	Ford	2008	2.2	Electric	Manual	179614	Like New	90141.57	Focus
617	BMW	2001	4.4	Petrol	Automatic	5913	New	30894.45	X3
618	Toyota	2014	3.8	Hybrid	Automatic	112406	Like New	91972.58	RAV4
619	Toyota	2017	5.6	Petrol	Manual	113693	Used	83707.47	Camry
620	Audi	2002	2.9	Electric	Manual	93449	Like New	98153	Q7

621	Ford	2016	1.3	Electric	Automatic	10567	Like New	35804.47	Mustang
622	Ford	2003	1.1	Petrol	Automatic	38379	Used	27396.55	Focus
623	Audi	2003	5.1	Electric	Manual	206040	Like New	36432.36	Q7
624	BMW	2013	3.6	Diesel	Automatic	262463	New	95691.73	3 Series
625	Ford	2008	4.9	Diesel	Manual	90005	Like New	36641.96	Fiesta
626	Toyota	2008	2.2	Petrol	Automatic	223098	New	58695.12	Prius
627	Toyota	2022	2.7	Diesel	Automatic	4791	Like New	43349.53	Camry
628	Honda	2017	1.2	Diesel	Automatic	131401	Like New	42640.91	Fit
629	Ford	2009	5.8	Hybrid	Automatic	205459	Used	23370.97	Explorer
630	BMW	2020	4.3	Petrol	Automatic	61032	Used	56022.56	X5
631	Audi	2003	5.7	Electric	Manual	175150	New	85693.4	A4
632	Audi	2011	2.3	Petrol	Manual	21300	Used	9701.08	Q7
633	BMW	2007	4.1	Diesel	Automatic	55609	Used	89476.53	X3
634	Tesla	2001	4.4	Hybrid	Automatic	191634	Used	68219.93	Model 3
635	Mercedes	2021	2.6	Petrol	Automatic	90045	Used	63590.12	GLA
636	Honda	2012	5.2	Petrol	Manual	267847	Used	64460.52	Civic
637	Audi	2020	5.7	Diesel	Manual	223717	New	33145.63	Q7
638	Ford	2015	5.4	Diesel	Manual	219162	New	44438.73	Focus
639	Honda	2001	4.7	Petrol	Manual	27676	Used	80932.55	Civic
640	Ford	2010	2.4	Diesel	Manual	220412	Used	34106.2	Focus
641	Tesla	2009	2.4	Diesel	Manual	176512	New	49651.92	Model X
642	Toyota	2014	5.8	Diesel	Manual	167995	Like New	6865.07	Corolla
643	Honda	2016	1.1	Diesel	Manual	291946	New	74688.04	CR-V
644	Audi	2007	4.6	Diesel	Automatic	124786	Like New	44681.71	A4
645	Honda	2017	4.5	Hybrid	Manual	68147	Used	54909.08	Accord
646	Honda	2022	4.1	Diesel	Manual	22075	Used	15895.49	Civic
647	Honda	2008	6	Electric	Manual	205788	New	99212.85	Accord
648	Mercedes	2007	2.6	Petrol	Manual	9304	Used	33734.44	GLA
649	Honda	2013	2.7	Hybrid	Automatic	129851	Like New	65324.02	Civic
650	Ford	2017	1.4	Hybrid	Manual	59622	Like New	60217.45	Fiesta
651	Toyota	2021	3.2	Diesel	Automatic	108654	New	79583.76	Camry
652	Tesla	2019	2.3	Petrol	Automatic	249109	Like New	32914.51	Model S
653	BMW	2019	2.7	Electric	Automatic	286172	New	76813.1	X3
654	Honda	2020	5.2	Diesel	Manual	39328	New	41337.66	CR-V
655	Audi	2011	5.7	Petrol	Manual	289445	Like New	44060.29	Q5
656	Honda	2018	1.9	Diesel	Manual	218348	Like New	68907.69	Accord
657	Audi	2013	2.9	Diesel	Automatic	36845	Like New	79507.15	A3
658	Ford	2016	5.6	Diesel	Automatic	76394	Like New	68352.33	Explorer
659	Audi	2023	1.3	Diesel	Automatic	175231	Like New	90488.55	Q7
660	BMW	2020	1.5	Diesel	Automatic	80722	Like New	32090.11	3 Series
661	Toyota	2002	1.8	Diesel	Manual	287374	Like New	90558.59	Corolla
662	Audi	2022	4	Diesel	Manual	92554	Used	17432.03	A4
663	Audi	2006	1.8	Electric	Manual	49262	New	67655.38	A4
664	Toyota	2016	5.8	Hybrid	Automatic	41722	New	57024.91	Corolla
665	BMW	2011	3.2	Electric	Automatic	171231	Like New	51990.41	X5
666	Honda	2008	3.5	Diesel	Manual	240740	New	34536.64	Civic
667	Audi	2014	2.2	Diesel	Manual	87052	Like New	52854.61	A3
668	Toyota	2017	3.4	Electric	Automatic	100808	Used	20368.47	Camry

669	Ford	2020	4.3	Electric	Manual	255416	New	40085.49	Explorer
670	Toyota	2012	4.8	Hybrid	Manual	262128	New	14374.69	Camry
671	Ford	2020	4.8	Electric	Automatic	221281	Used	59325.43	Focus
672	BMW	2007	3.9	Hybrid	Automatic	246052	Used	14097.95	X5
673	Honda	2013	5.5	Diesel	Automatic	104697	Used	20232.74	Fit
674	Toyota	2007	5.1	Petrol	Manual	231572	New	13119.35	RAV4
675	Tesla	2013	4.8	Petrol	Automatic	232842	New	41224.51	Model X
676	Tesla	2006	1.3	Petrol	Manual	96299	Used	84986.05	Model Y
677	Mercedes	2022	1	Petrol	Manual	165746	Used	91155.16	GLC
678	Audi	2011	2.1	Diesel	Automatic	149177	Used	11829.5	A3
679	BMW	2010	4.3	Petrol	Manual	160811	Used	65282.26	X5
680	Toyota	2021	3.1	Electric	Automatic	163041	Used	70016.62	Prius
681	Tesla	2021	3	Electric	Automatic	14497	Like New	55708.14	Model X
682	Audi	2010	5.4	Petrol	Manual	254204	Used	68363.56	Q5
683	Tesla	2021	5.5	Electric	Manual	257471	Like New	27200.62	Model Y
684	Toyota	2012	5.5	Hybrid	Automatic	92019	New	51516.2	RAV4
685	Ford	2017	2.6	Diesel	Automatic	190326	New	42133.21	Explorer
686	Toyota	2001	4.5	Petrol	Automatic	109017	Like New	13522.26	Prius
687	Mercedes	2020	2.4	Petrol	Automatic	218220	Used	64427.86	C-Class
688	Toyota	2014	2	Diesel	Automatic	105153	New	52045.44	Corolla
689	Toyota	2019	1.9	Electric	Automatic	33826	Used	31141.53	RAV4
690	Mercedes	2017	2.7	Diesel	Manual	110034	Used	50000.1	C-Class
691	BMW	2014	3.1	Diesel	Manual	84242	Like New	78653.31	5 Series
692	Toyota	2018	5.2	Electric	Manual	50100	New	81157.49	RAV4
693	Mercedes	2022	1.6	Diesel	Manual	221171	New	66704.98	GLC
694	Audi	2023	4.7	Electric	Automatic	12809	Like New	49436.04	Q5
695	Ford	2011	3.7	Electric	Manual	64450	Used	59696.22	Explorer
696	Ford	2012	2.4	Diesel	Manual	111126	Used	41576.46	Focus
697	Toyota	2021	3.5	Hybrid	Automatic	264237	New	17022.85	RAV4
698	BMW	2010	2.5	Electric	Manual	44498	Like New	41633.96	X5
699	BMW	2004	4	Diesel	Automatic	116251	Like New	55381.61	X3
700	Audi	2000	3.2	Electric	Automatic	40985	Used	61889.23	Q7
701	Toyota	2023	1.8	Hybrid	Automatic	294153	Used	93901.09	Corolla
702	Ford	2002	1.6	Hybrid	Automatic	17718	Like New	78846.68	Fiesta
703	BMW	2021	3.7	Petrol	Automatic	278849	New	19439.29	X3
704	Toyota	2018	5.5	Electric	Manual	62598	Used	21547.31	Prius
705	Tesla	2022	2.7	Electric	Manual	274383	Like New	14547	Model 3
706	BMW	2006	4.7	Diesel	Manual	46665	Like New	75127.26	3 Series
707	Mercedes	2011	4.3	Electric	Automatic	294418	Like New	72081.62	C-Class
708	Tesla	2014	5.7	Petrol	Manual	146075	New	98704.48	Model 3
709	BMW	2004	5.1	Hybrid	Manual	161938	Used	54592.22	X5
710	Ford	2014	3.8	Hybrid	Manual	153060	Used	83509.42	Focus
711	Honda	2007	4.3	Petrol	Manual	221516	Used	59761.79	CR-V
712	Tesla	2009	5.5	Electric	Automatic	136746	New	88038.24	Model Y
713	Audi	2015	3	Electric	Manual	201610	Used	73497	A4
714	Audi	2007	2.6	Petrol	Automatic	66446	Used	66073.98	A3
715	Ford	2000	1.1	Diesel	Automatic	29072	Used	58686.65	Mustang
716	BMW	2011	5.1	Hybrid	Manual	33717	Used	73682.2	3 Series

717	Toyota	2004	5	Petrol	Automatic	218417	New	44867.12	Prius
718	BMW	2002	1.5	Petrol	Automatic	157723	Like New	14174.78	X3
719	Ford	2000	3.9	Electric	Automatic	109525	Like New	8798.68	Focus
720	Audi	2003	3.3	Hybrid	Automatic	213092	Used	50507.25	Q7
721	BMW	2007	1.6	Electric	Automatic	4646	Used	61932.7	3 Series
722	Audi	2002	5.9	Petrol	Automatic	175403	Used	12490.66	A3
723	Tesla	2009	2.1	Diesel	Automatic	284329	New	32255.84	Model S
724	Toyota	2001	1.3	Hybrid	Manual	229728	Used	35593.06	Corolla
725	Tesla	2010	4	Petrol	Manual	52107	New	58465.58	Model Y
726	Audi	2009	4.7	Petrol	Automatic	244865	Used	31455.83	Q5
727	Audi	2020	1.2	Diesel	Automatic	279707	Used	14086.62	A3
728	Honda	2013	4.3	Petrol	Manual	70729	Like New	20661.39	Accord
729	Honda	2006	3.7	Petrol	Manual	277845	Used	21525.04	Civic
730	Tesla	2001	1.5	Hybrid	Manual	200144	New	85056.02	Model S
731	Mercedes	2008	1.9	Hybrid	Manual	215494	Like New	32010.37	GLC
732	Tesla	2015	3.8	Hybrid	Automatic	252615	New	72895.71	Model X
733	Honda	2012	2.5	Electric	Automatic	128331	Like New	58944.68	Fit
734	Audi	2008	5.7	Diesel	Manual	160482	New	97818.68	A4
735	Ford	2019	5.1	Hybrid	Manual	99280	Like New	30918.15	Fiesta
736	Tesla	2003	5.9	Electric	Manual	189787	New	20045.44	Model S
737	Audi	2021	2.3	Electric	Manual	38665	New	9943.59	A3
738	Ford	2009	5.8	Diesel	Automatic	278101	Used	27891.17	Explorer
739	Ford	2021	3.2	Diesel	Manual	259285	Like New	69986.73	Focus
740	Honda	2011	2.7	Petrol	Manual	163947	Like New	13099.53	CR-V
741	Tesla	2016	1.3	Electric	Manual	113828	Used	28246.68	Model 3
742	BMW	2013	1.3	Hybrid	Automatic	132698	New	86254.29	3 Series
743	Toyota	2013	4.5	Diesel	Automatic	90815	New	60380.53	RAV4
744	Honda	2001	3.3	Electric	Automatic	194894	Like New	11604.55	Fit
745	Honda	2020	2.1	Hybrid	Manual	203485	New	9529.9	Civic
746	BMW	2019	4.1	Electric	Manual	164714	Like New	10806.67	X5
747	Toyota	2010	2.3	Diesel	Manual	32356	Like New	94478.13	Prius
748	Audi	2015	3.9	Petrol	Automatic	265953	New	85737.79	Q5
749	Mercedes	2018	2.8	Electric	Automatic	297019	New	85269.3	C-Class
750	Tesla	2022	5.1	Hybrid	Manual	241121	New	92800.59	Model 3
751	Mercedes	2005	5.1	Diesel	Manual	271609	Used	52999.26	C-Class
752	Audi	2023	3.4	Petrol	Automatic	197167	Like New	28497.74	Q7
753	Honda	2018	2.8	Hybrid	Manual	196322	New	43128.06	Fit
754	Toyota	2004	2.8	Hybrid	Manual	15250	Used	73292.09	Prius
755	Honda	2003	5	Hybrid	Manual	46023	New	88223.12	Accord
756	Ford	2014	2.6	Electric	Automatic	101350	Like New	46333.64	Fiesta
757	Honda	2003	2	Diesel	Manual	177696	Used	55861.19	Fit
758	Honda	2019	1.4	Hybrid	Manual	16427	Like New	93519.38	Accord
759	Audi	2009	3.3	Electric	Manual	210084	New	15212.37	A3
760	Audi	2023	3.4	Diesel	Manual	134511	New	86918.43	A4
761	Audi	2021	5.2	Diesel	Automatic	218403	New	20134.21	A3
762	Mercedes	2002	2.1	Electric	Automatic	78672	Used	50966.83	E-Class
763	Ford	2004	2.9	Electric	Automatic	17300	Used	25750.2	Mustang
764	Audi	2005	5	Hybrid	Manual	19659	Used	62280.02	A3

765	Toyota	2020	5.1	Diesel	Automatic	162475	Used	58064.48	Camry
766	Mercedes	2021	2.9	Petrol	Manual	245259	New	41100.7	GLC
767	BMW	2007	3.3	Electric	Automatic	10360	New	87013.83	X3
768	Toyota	2006	2.5	Diesel	Manual	283568	New	67682.27	Camry
769	Tesla	2020	5.7	Diesel	Automatic	98035	Used	73514.49	Model Y
770	Tesla	2009	1.6	Hybrid	Automatic	48791	Used	19312.68	Model X
771	Toyota	2005	5.7	Petrol	Automatic	199867	New	88900.74	RAV4
772	Audi	2013	4.4	Hybrid	Manual	274444	New	20868.82	Q5
773	BMW	2003	3.7	Petrol	Manual	33370	Used	26164.57	X5
774	BMW	2012	1.2	Petrol	Manual	200903	Like New	17165.24	3 Series
775	Mercedes	2019	3.4	Electric	Automatic	27209	New	46834.12	GLC
776	BMW	2016	3	Diesel	Manual	283071	New	89332.38	5 Series
777	Tesla	2022	1.8	Diesel	Manual	34579	New	28982.51	Model 3
778	Ford	2006	4.3	Diesel	Manual	271176	Used	40506.57	Mustang
779	Audi	2003	5.9	Petrol	Manual	93254	New	85376.31	A3
780	BMW	2013	3.8	Diesel	Manual	113528	New	63692.45	3 Series
781	Mercedes	2002	4.6	Electric	Manual	223274	New	76403.56	GLA
782	Tesla	2023	1.3	Petrol	Automatic	238292	New	25330	Model X
783	Ford	2004	3.1	Petrol	Automatic	181026	New	73066.54	Focus
784	Honda	2015	1.6	Petrol	Manual	248342	Like New	26623	CR-V
785	Honda	2022	4.1	Petrol	Automatic	219437	Like New	98794.83	CR-V
786	Ford	2019	5.7	Electric	Automatic	278076	New	58189.18	Fiesta
787	Tesla	2003	4.3	Diesel	Manual	287858	New	71085.73	Model 3
788	Mercedes	2023	1.4	Electric	Manual	57803	New	16248.15	E-Class
789	Ford	2023	2.8	Diesel	Automatic	133624	New	28812.32	Mustang
790	Audi	2001	3.8	Electric	Manual	56627	Used	18275.36	A3
791	Audi	2017	3	Hybrid	Automatic	177059	Used	42066.22	Q5
792	Honda	2018	5.2	Hybrid	Automatic	45380	Used	31992.91	Fit
793	BMW	2018	5.1	Hybrid	Automatic	160322	Like New	74627.61	5 Series
794	Mercedes	2016	4.1	Hybrid	Manual	199416	New	15327.35	E-Class
795	Honda	2013	2.9	Petrol	Automatic	146367	Used	76445.64	Fit
796	BMW	2018	2.3	Petrol	Manual	272667	New	9341.96	X3
797	BMW	2021	1.5	Electric	Manual	259125	New	24191.69	X3
798	Audi	2023	2.8	Electric	Manual	13769	Like New	80236.67	A4
799	Tesla	2012	3.1	Hybrid	Manual	112035	Like New	75563.78	Model X
800	Toyota	2011	4.4	Diesel	Manual	175717	Used	50250.98	Camry
801	Tesla	2005	4.3	Hybrid	Automatic	221815	Used	9748.36	Model Y
802	Toyota	2020	1.4	Electric	Manual	231832	Like New	62939.91	Camry
803	Ford	2003	3	Hybrid	Manual	156629	Like New	43638.79	Focus
804	Audi	2018	1.9	Electric	Manual	234799	New	35070.17	Q7
805	BMW	2015	1.8	Hybrid	Manual	168157	New	65839.01	5 Series
806	Mercedes	2012	5.1	Diesel	Manual	144542	Used	46478.38	GLA
807	Toyota	2003	1.2	Hybrid	Automatic	118643	Used	13780	Corolla
808	Tesla	2022	3.1	Diesel	Manual	210154	Like New	92015.29	Model S
809	BMW	2016	1.8	Diesel	Manual	137877	Used	78956.84	3 Series
810	Toyota	2022	5.4	Electric	Automatic	213396	New	10355.93	Prius
811	Toyota	2000	3.8	Diesel	Manual	225956	Like New	54881.07	Prius
812	Toyota	2017	2.2	Petrol	Automatic	181844	New	12920.87	Corolla

813	Mercedes	2019	3.5	Petrol	Automatic	101422	Like New	84542.54	GLA
814	Audi	2016	4.7	Petrol	Automatic	268774	Like New	63236.33	Q7
815	Mercedes	2014	5.8	Electric	Automatic	277845	New	21382.67	C-Class
816	Honda	2010	2.1	Petrol	Manual	145931	Used	6970.43	CR-V
817	BMW	2021	5.4	Electric	Manual	117556	Used	8000.2	5 Series
818	Audi	2012	5.7	Electric	Automatic	228495	Used	53199.72	Q7
819	Audi	2000	5.6	Petrol	Automatic	254809	Used	74765.48	Q7
820	Audi	2016	4.2	Diesel	Manual	205384	New	16479.84	Q7
821	Tesla	2005	4.1	Hybrid	Automatic	15021	Like New	26021.99	Model S
822	Audi	2003	3	Electric	Automatic	200935	New	36089.69	Q5
823	Mercedes	2019	4.8	Petrol	Automatic	204222	Used	25717.29	GLA
824	Audi	2015	3.7	Electric	Manual	64361	Used	42176.97	Q7
825	Ford	2014	4.4	Diesel	Automatic	272499	New	58163.43	Explorer
826	BMW	2014	3.1	Diesel	Manual	98841	Like New	70068.99	5 Series
827	Audi	2005	4.7	Petrol	Manual	180076	New	96558.64	A3
828	BMW	2014	5.1	Electric	Manual	246300	New	93430.15	5 Series
829	Ford	2013	1.7	Hybrid	Automatic	160786	New	59162.06	Explorer
830	Ford	2010	5.2	Hybrid	Automatic	17198	Like New	74744.26	Explorer
831	BMW	2006	3.7	Electric	Manual	258466	New	95332.86	X3
832	Toyota	2008	5.2	Electric	Manual	18740	New	12929.83	Corolla
833	Honda	2015	3.2	Electric	Manual	265954	Used	5535.3	Civic
834	Tesla	2004	2.9	Petrol	Automatic	258308	New	7830.98	Model Y
835	Toyota	2019	5.6	Diesel	Automatic	99855	Used	58518.19	Corolla
836	Toyota	2009	2.3	Hybrid	Manual	210192	Used	77469.18	RAV4
837	Mercedes	2017	5.2	Petrol	Manual	288927	Used	39872.12	E-Class
838	Tesla	2002	3.4	Electric	Automatic	121701	Like New	56797.72	Model Y
839	Tesla	2012	3.6	Electric	Manual	271615	Used	54054.8	Model Y
840	Toyota	2010	2.5	Diesel	Automatic	110771	New	14003.23	Corolla
841	Audi	2016	3.9	Electric	Automatic	6163	New	35550.89	A4
842	Mercedes	2021	2.6	Petrol	Manual	16065	Used	6846.34	GLA
843	Mercedes	2012	1.2	Petrol	Manual	241262	Used	15517.04	C-Class
844	Ford	2005	2.4	Diesel	Automatic	248924	New	82126.53	Fiesta
845	Tesla	2016	1	Petrol	Automatic	179420	Used	83794.28	Model 3
846	Toyota	2012	5.9	Hybrid	Automatic	281298	Like New	81184.9	Camry
847	Ford	2018	5.8	Petrol	Automatic	20229	Used	74047.77	Focus
848	BMW	2020	3	Petrol	Automatic	250470	Like New	80364.72	X5
849	Honda	2018	4.6	Petrol	Manual	158069	Like New	68743.32	Civic
850	Mercedes	2009	2.7	Hybrid	Automatic	21101	Like New	68634.17	GLC
851	BMW	2002	4.4	Electric	Automatic	40391	Used	68399.37	3 Series
852	BMW	2013	5	Petrol	Automatic	206935	Like New	53834.07	3 Series
853	Audi	2018	5.7	Diesel	Manual	72723	Like New	39517.99	Q7
854	Honda	2004	3	Hybrid	Manual	226293	Used	74368.55	Civic
855	BMW	2004	4.9	Diesel	Automatic	190477	Like New	33371.37	5 Series
856	BMW	2019	2.3	Petrol	Automatic	166020	Used	56575.7	X5
857	Honda	2016	6	Diesel	Manual	290604	New	46168.78	Accord
858	Honda	2020	1.1	Petrol	Manual	197190	Like New	31279.12	CR-V
859	BMW	2009	4	Hybrid	Manual	179354	Used	97595.54	3 Series
860	Honda	2004	4.3	Diesel	Manual	91725	New	29581.41	Accord

861	BMW	2003	4.4	Diesel	Automatic	212139	Like New	34382.84	3 Series
862	BMW	2005	1.6	Petrol	Manual	85779	Like New	20350.81	3 Series
863	Audi	2003	5.7	Petrol	Automatic	3060	Used	83183.16	A4
864	Toyota	2006	1.9	Electric	Automatic	125806	New	60725.99	RAV4
865	BMW	2006	4.1	Petrol	Manual	275875	Used	63238.73	3 Series
866	Ford	2017	2.1	Petrol	Manual	115871	Like New	82953.33	Explorer
867	Mercedes	2002	2.5	Electric	Manual	20719	Like New	37577.37	GLC
868	Tesla	2000	3.7	Petrol	Manual	49116	Like New	23395.18	Model 3
869	Toyota	2023	3.1	Petrol	Automatic	26325	Like New	23848.51	RAV4
870	Toyota	2003	1.8	Electric	Automatic	14551	New	74598.88	RAV4
871	Toyota	2005	1.9	Hybrid	Automatic	286422	New	63340.94	Prius
872	Audi	2008	3.1	Hybrid	Manual	15141	Used	24602.19	Q7
873	BMW	2021	4.8	Petrol	Automatic	295759	Used	18781.21	X3
874	Audi	2013	5.5	Petrol	Manual	122058	Used	16465.29	A4
875	BMW	2011	1.4	Electric	Automatic	193823	Like New	64640.87	X3
876	Audi	2019	3	Electric	Manual	112684	Used	5011.27	A4
877	Audi	2023	1.5	Hybrid	Automatic	289596	New	6740.34	A3
878	Mercedes	2003	1.1	Diesel	Automatic	50391	Used	42007.55	C-Class
879	Ford	2020	4.3	Petrol	Manual	120288	Used	70678.24	Explorer
880	Audi	2023	4	Diesel	Automatic	206132	New	71028.74	A3
881	Mercedes	2011	1.8	Diesel	Automatic	113535	New	45861.24	GLC
882	Honda	2009	2.2	Electric	Manual	142770	Like New	70651.99	CR-V
883	Ford	2021	1.1	Petrol	Manual	239947	New	54504.14	Mustang
884	Audi	2006	5.2	Petrol	Manual	86711	New	97808.48	Q5
885	Tesla	2002	5.9	Electric	Manual	264509	Used	20433.72	Model Y
886	Toyota	2022	1.7	Diesel	Manual	228625	New	62063.39	Prius
887	Honda	2013	2.2	Electric	Automatic	43372	Like New	51667.68	Civic
888	Honda	2023	5.3	Hybrid	Manual	44134	Used	23474.3	CR-V
889	Mercedes	2009	5.6	Petrol	Automatic	299967	Like New	76249.09	GLA
890	Honda	2015	3.1	Hybrid	Automatic	71158	New	31173.26	Accord
891	Ford	2015	1.3	Electric	Manual	237159	Like New	41262.43	Fiesta
892	Audi	2021	1.2	Petrol	Automatic	133021	Like New	40608.9	A3
893	Audi	2009	3.9	Hybrid	Automatic	49396	New	28199.42	Q7
894	Tesla	2012	3	Hybrid	Manual	31912	New	45917.01	Model S
895	Toyota	2005	1.1	Diesel	Automatic	56947	Used	49967.86	Prius
896	Mercedes	2011	3.9	Petrol	Manual	44387	Used	75701.06	E-Class
897	Toyota	2008	1.1	Hybrid	Manual	278652	Used	77681.51	Camry
898	Honda	2012	4.9	Hybrid	Manual	109249	New	20062.82	Civic
899	Tesla	2003	2.5	Diesel	Automatic	1919	Like New	61313.37	Model 3
900	Toyota	2023	1.2	Hybrid	Automatic	140689	Like New	90138.79	Corolla
901	Ford	2010	3.9	Hybrid	Automatic	33298	Used	15334.73	Mustang
902	Audi	2019	3	Hybrid	Automatic	237225	Used	49926.83	A3
903	Honda	2017	5.9	Diesel	Manual	233725	New	76283.55	Fit
904	Tesla	2010	3.7	Hybrid	Automatic	276600	Like New	63091.68	Model X
905	Toyota	2020	2.4	Hybrid	Manual	109599	Used	14555.64	Camry
906	Mercedes	2003	4.5	Petrol	Automatic	83721	New	42677.58	GLC
907	Ford	2017	2.4	Petrol	Automatic	286384	Used	53187.75	Explorer
908	Ford	2000	5.5	Diesel	Automatic	271372	New	99605.33	Focus

There are much more Data but due to page constraints only limited Data is shown