



# **Geely Autos**



## **Problem Overview**

A Chinese automobile company Geely Auto aspires to enter the Nigerian market by setting up its manufacturing unit and producing cars locally to compete with their Nigerian, US and European counterparts.

They have contacted you, a Data Scientist to understand the factors on which the pricing of cars depends. Specifically, they want to understand the factors affecting the pricing of cars in the Nigerian market, since those may be very different from the Chinese market.

#### The company wants to know:

- Which variables are significant in predicting the price of a car.
- How well do those variables describe the price of a car.

Based on various market surveys, you have gathered a large data set of different types of cars across the Nigerian market.





### **Business Goal (Objective)**

You are required to explore the Dataset, and come up with insights that will aid the management to understand how exactly the prices vary with the independent variables. They can accordingly manipulate the design of the cars, the business strategy etc. to meet certain price levels. This Exploration will be a good way for management to understand the pricing dynamics of a new market.

#### **Best Practices for EDA:**

The final notebook should be well-documented, with inline comments explaining the functionality of code and markdown cells containing comments on the observations and insights.





Here you are required to apply data visualization techniques to carry out an exploration of the data set. You are expected to carry out Univariate, Bivariate and Multivariate Analysis to explore, figure out relationships and identify insights from the Data set.

Kindly go through the Data dictionary to see the variables involved, further details and a case study template has been provided to guide your analysis



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Its assigned insurance risk rating, A value of +3 indicates that the auto is risky, -3 that it is probably pretty safe.(Categorical)		
Name of car company (Categorical)		
Car fuel type i.e gas or diesel (Categorical)		
Aspiration used in a car (Categorical)		
Number of doors in a car (Categorical)		
body of car (Categorical)		
type of drive wheel (Categorical)		
Location of car engine (Categorical)		
Weelbase of car (Numeric)		
Length of car (Numeric)		
· Width of car (Numeric)		
height of car (Numeric)		
The weight of a car without occupants or baggage. (Numeric)		
Type of engine. (Categorical)		
cylinder placed in the car (Categorical)		
Size of car (Numeric)		
Fuel system of car (Categorical)		
Boreratio of car (Numeric)		
Stroke or volume inside the engine (Numeric)		
compression ratio of car (Numeric)		
Mileage in city (Numeric)		
Mileage on highway (Numeric)		
Price of car (Numeric)		





Create a detailed analysis and upload on your Github.

(Tag @10Alytics)