

Mohammed Alnuri Alanazi

11/01/2021

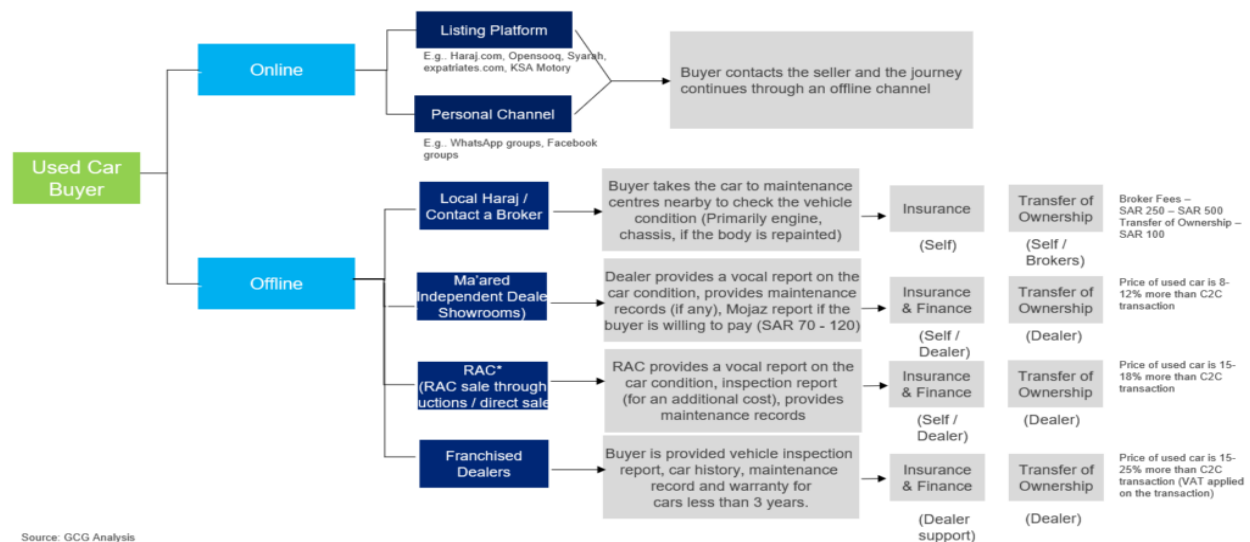
Introduction:

I'm actually not in the market for a used car, but occasionally, I'll click through used car listings to pass the time. It's interesting to see all the different options that exist out there.

But are they pricey now, I used to be the type of guy to change (used) cars every two years? They were never expensive, just drive an old Toyota Camry one year, then a Nissan Maxima another, then a Ford... I just enjoyed the variety.

But the price of even 8+ year old cars these days just seems insane to me! So, I would like to find out **how can I (predict the price of used cars in Saudi Arabia)**. However, anyone can get benefit from this project especially those people are more likely planning to buy used cars.

Used Car Journey – Buyer



Data:

The dataset contains 8035 rows with 8 features, and the features are: Make, Model, Year, Origin, Gear Type, Mileage, Region, Price. Also, The dataset used in this project was downloaded from Kaggle Website (<https://www.kaggle.com/reemalruqi/used-cars-in-saudi-arabia>)

Most of the data concerned and be used for the project are Price. Other data such as Make, Year, Mileage can be used to have an overview of the data. However, in this project I will predict the continues value (Price) which is a regression problem, so I am planning to use deep learning model such as preprocessing. (Linear Regression)

Tools:

- Pandas and NumPy for data manipulation.
- Matplotlib and Seaborn for Visualization.
- Scikit-learn for modeling.

- LinearRegression

MVP Goal:

The main purpose of my project is to try to predict how used cars will perform so we can help people in Saudi Arabia with how the price will be. Around 1 in 5 cars of the car parc (15 years) was transacted in the Used Car market in 2019. In comparison, for 1 new car sold 2.5 used cars (under 15 years) are sold each year. This ratio is likely to grow in favor of used cars in the next 5 years.

KSA New Car Sales Vs Used car Data in '000 units

