



CAR PRICE PREDICTION

Submitted by,

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Internship 16

INTRODUCTION

With the covid 19 impact in the market, we have seen lot of changes in the car market. Now some cars are in demand hence making them costly and some are not in demand hence cheaper. One of our clients works with small traders, who sell used cars. With the change in market due to covid 19 impact, our client is facing problems with their previous car price valuation machine learning models. So, they are looking for new machine learning models from new data

In this section we need to scrape the data of used cars from website Cars24 . we need web scraping for this. we have fetch data for different locations. these columns are

Car Brand	Model	Price	Model Year	Location	Fuel	Driven (Kms)	Gear	Ownership	EMI (monthly)
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This data is to give you a hint about important variables in used car model.

Problem

client is facing problems with their previous car price valuation machine learning models

observation

Hyderabad City

- Most available brands - Maruti(248), Hyundai(112), Honda(17), Toyota(11), Volkswagon(9)
- Cars availability - Petrol(319), Diesel(85), Petrol+CNG(9), Petrol+LPG(4)
- Recent year models availability - 2016(21), 2017(47), 2018(43), 2019(30), 2020(3)
- Availability based on Gear - Automatic(25), Manual(392)
- High Budget car - Toyota Innova Crysta 2.4 VX 8 STR (1801049/-), 2018 Model
- Low Budget car - Hyundai Accent GLE (166099/-), 2008 Model

Delhi City

- Most available brands - Maruti(1069), Hyundai(404), Honda(173), Toyota(150), Renault(82)

- Cars availability - Petrol(1122), Diesel(993), Petrol+CNG(81)
- Recent year models availability - 2016(216), 2017(217), 2018(210), 2019(122), 2020(61), 2021(2)
- Availability based on Gear - Automatic(182), Manual(2014)
- High Budget car - Toyota Fortuner 2.8 4x2 AT (2918399/-), 2018 Model
- Low Budget car - Chevrolet Spark LS 1.0 (112000/-), 2010 Model

Mumbai City

- Most available brands - Maruti(802), Hyundai(331), Honda(176), Toyota(93), Volkswagen(84)
- Cars availability - Petrol(1083), Diesel(579), Petrol+CNG(71), Petrol+LPG(1)
- Recent year models availability - 2016(224), 2017(219), 2018(148), 2019(95), 2020(37)
- Availability based on Gear - Automatic(258), Manual(1476)
- High Budget car - Toyota Land Cruiser LC200 VX 2 PREMIUM (3495000/-), 2010 Model
- Low Budget car - Tata Nano XT TWIST (125000/-), 2014 Model

Bangalore City

- Most available brands - Maruti(378), Hyundai(228), Honda(41), Renault(29), Volkswagen(9)
- Cars availability - Petrol(658), Diesel(116), Petrol+CNG(1), Petrol+LPG(5), Electric(1)
- Recent year models availability - 2016(77), 2017(71), 2018(54), 2019(37), 2020(7), 2021(1)
- Availability based on Gear - Automatic(70), Manual(711)
- High Budget car - MG Hector Sharp 2.0 DIESEL (1964099/-), 2019 Model
- Low Budget car - Chevrolet Spark LS 1.0 (189499/-), 2009 Model

Chennai City

- Most available brands - Maruti(300), Hyundai(167), Honda(42), Volkswagen(23), Ford(16)
- Cars availability - Petrol(481), Diesel(124), Petrol+LPG(4)
- Recent year models availability - 2016(81), 2017(79), 2018(68), 2019(41), 2020(6)
- Availability based on Gear - Automatic(60), Manual(549)
- High Budget car - Tata Hexa Varicor 400 XT (1801499/-), 2019 Model
- Low Budget car - Chevrolet Spark LS 1.0 (171799/-), 2011 Model

Conclusion

- The availability of cars in 'Delhi'(2200+) is the highest among other 4 cities.
- Compared to other 4 cities 'Hyderabad'(415+) has less available cars.
- 'Maruti' brand cars are widely available with a count of around 2800 cars in all the cities, followed by Hyundai(1240+), Honda(449), Toyota(280+)
- Most of the cars runs with 'Petrol' with a count of 3663.
- High budget car among all cities:
 - Toyota Land CruiserLC200 VX 2 PREMIUM (3495000/-), 2010 Model, available in Mumbai
- Low budget car among all cities:
 - Maruti AltoLX (91000/-), 2008 Model, available in Delhi