

#### Background

- 44% respondens in India prefer to buy car online
- New regulation tax rate from 28% to 12-18%
- Indian screen time rises 2 hours/day since June 2020

 $\textbf{Ref:} \underline{ https://auto.economictimes.indiatimes.com/news/passenger-vehicle/cars/90-of-car-purchases-in-india-are-digitally-driven/75075407 \\$ 





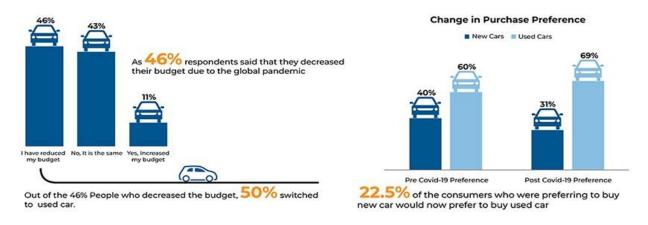
#### **AVERAGE NEW- AND USED-CAR PRICES**



Sources: Kelley Blue Book, June new-car transaction prices Edmunds, Q1 used-car transaction prices

RoadLoans.com





Total Respondents- (N= 2300)

Used car market valued at 24.24 Billion in 2019 and expected increase 15,12% (2020-2025)

# Too much vehicle aspect and data to define used car price

## We are a tech consultant, help your company to grow stronger, faster, and precise.

"New Normal, New Way"

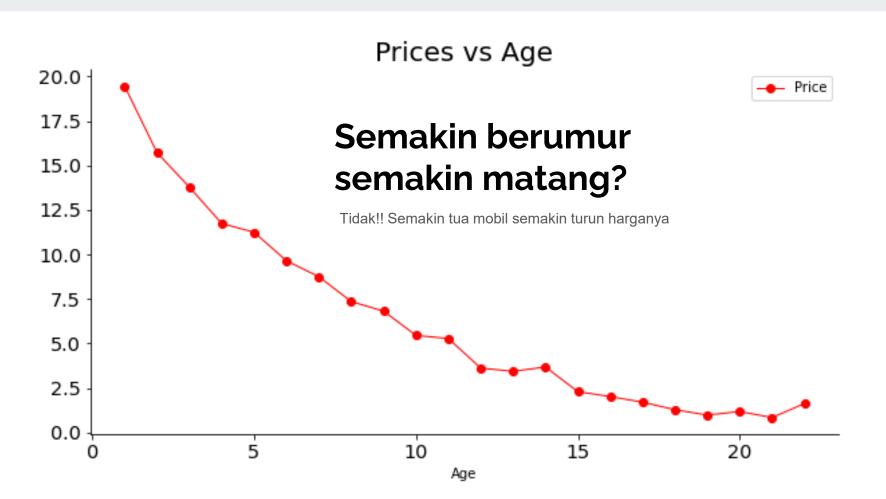
#### Goal and Objective:

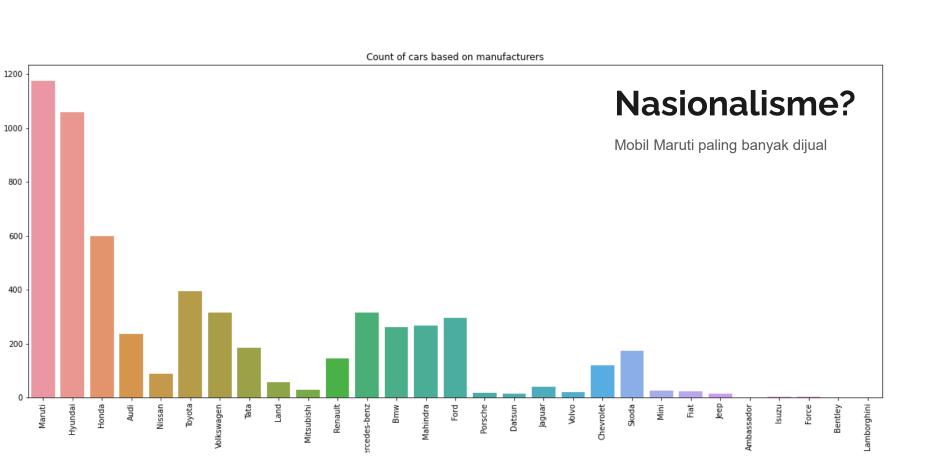
- 1. Speed up the process of estimating used car prices
- Giving business insights for your company

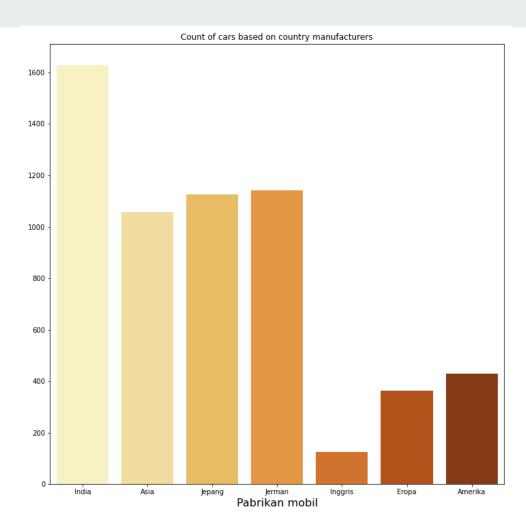








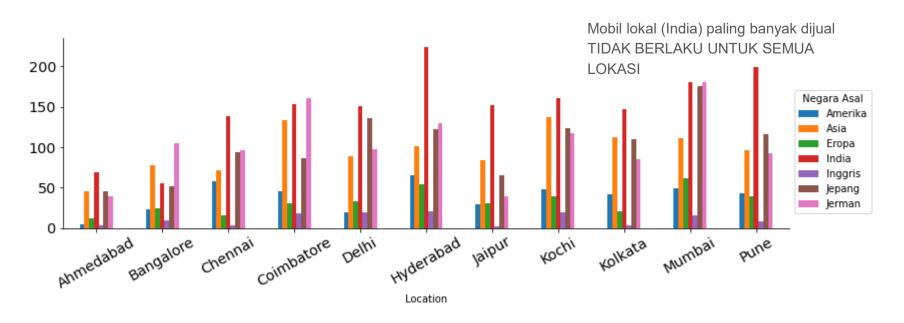


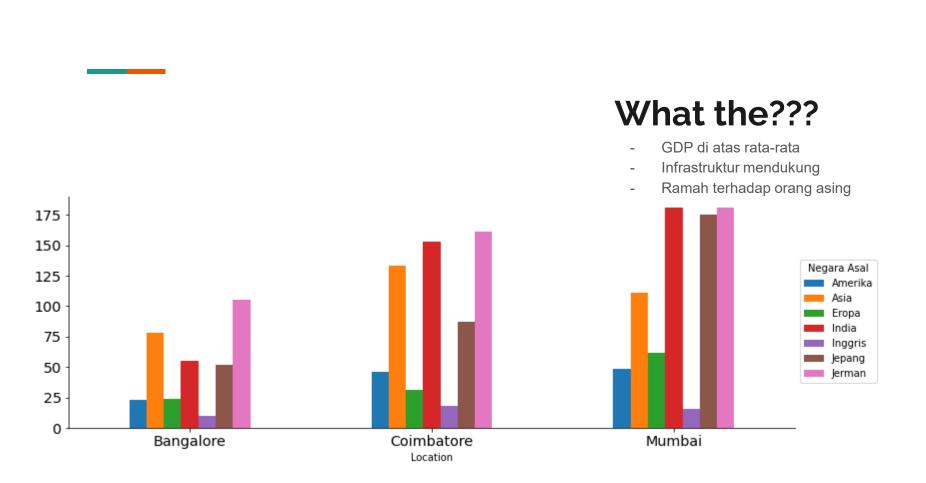


#### Nasionalisme!

Mobil lokal (India) paling banyak dijual

#### Nasionalisme?!





#### **Data Pre-Processing**



**Data Cleansing** 

Pembersihan data



#### **Feature Engineering**

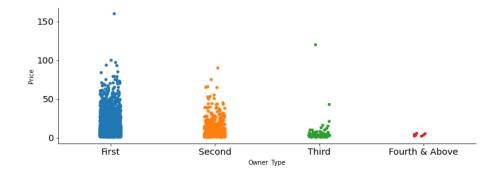
Memilih fitur yang berkorelasi dengan tujuan

#### **Data Exploration**

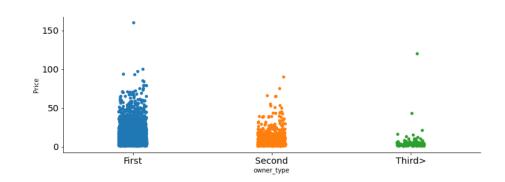
Memahami isi data

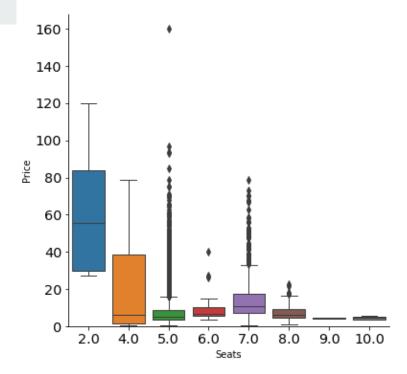




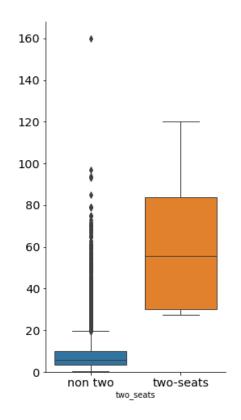


### Diubah menjadi





### Diubah menjadi



### Feature Selection

Age

Kilometer Driven

Mileage

**Fuel Type** 

**Brand (Country)** 

**Two Seats** 

**Power** 

**Engine** 

**Owner Type** 

**Transmission** 

**Proposed solution** 

### Modelling

### Linear Regression

 $R^2$ 

0.73

MAE

0.25



### Ridge

R<sup>2</sup>

0.73

MAE

0.26



#### **Random Forest**

R<sup>2</sup>

0.90

MAE

0.09

#### List

(EDA, Preprocessing)

(Machine Learning)

(Business Insight dan Visualisasi)

(Data Insight)