Used Car Price Prediction

Fai Alomair &Nadia Alhjrsi

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DATA Set

Used Cars Dataset. It is obtained from Kaggle
The data is scraped every few months, it contains most all relevant information that Craigslist provides on car sales including columns like price, size ,Color , manufacturer, year, and other categories.

Work Flow

01

Exploratory Data Analysis

Cleaning the data

02

Data Visualization

03

Split Data

Into 3 parts (Train, Validation , Test)

04

Build models

Building a linear regression models

05

Validate and Test models

06

Choose best models

Exploratory Data Analysis

01

Delete unuseful columns

That will never used it

Handling null Values

By drop it or full it

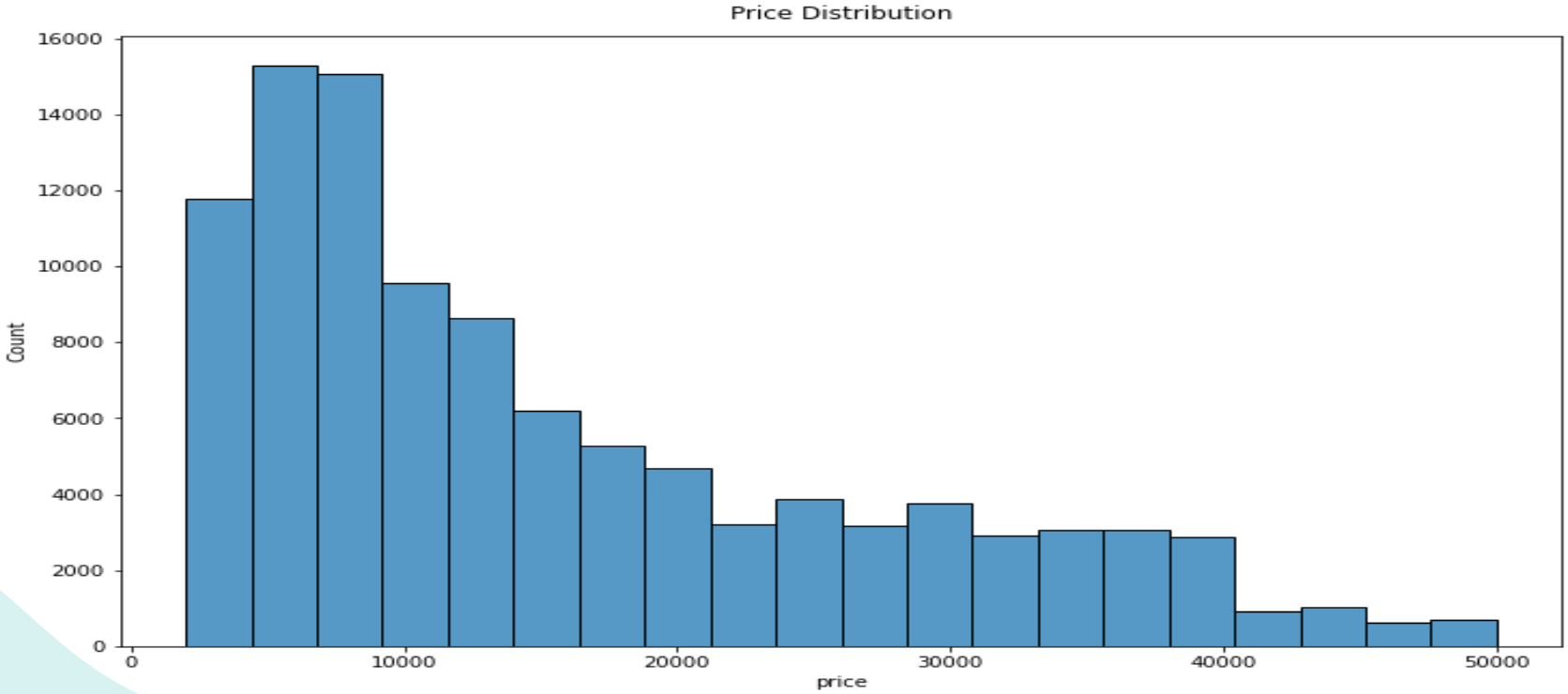
Encode Categorical variables

Convert Categorical variables into binary by get dummies

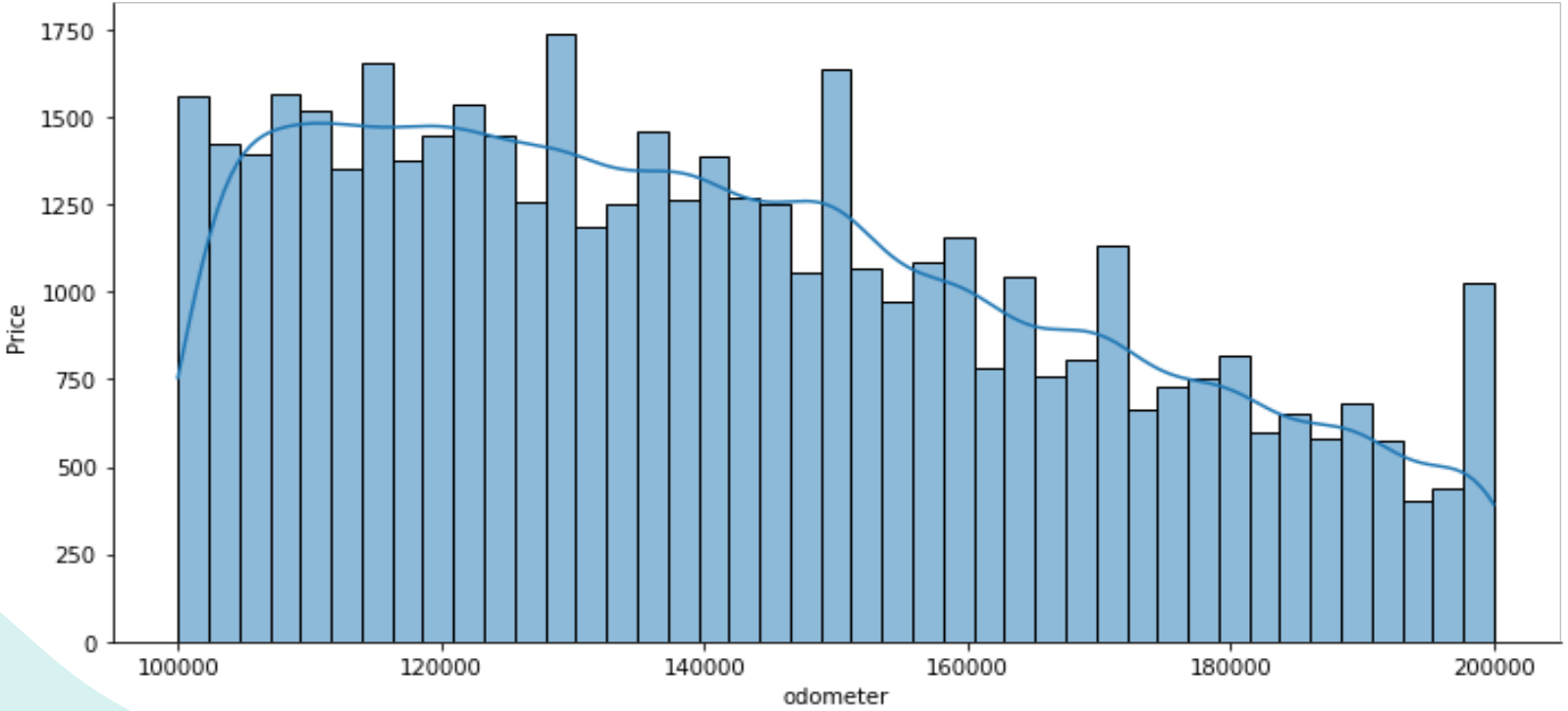
02

Data Visualization

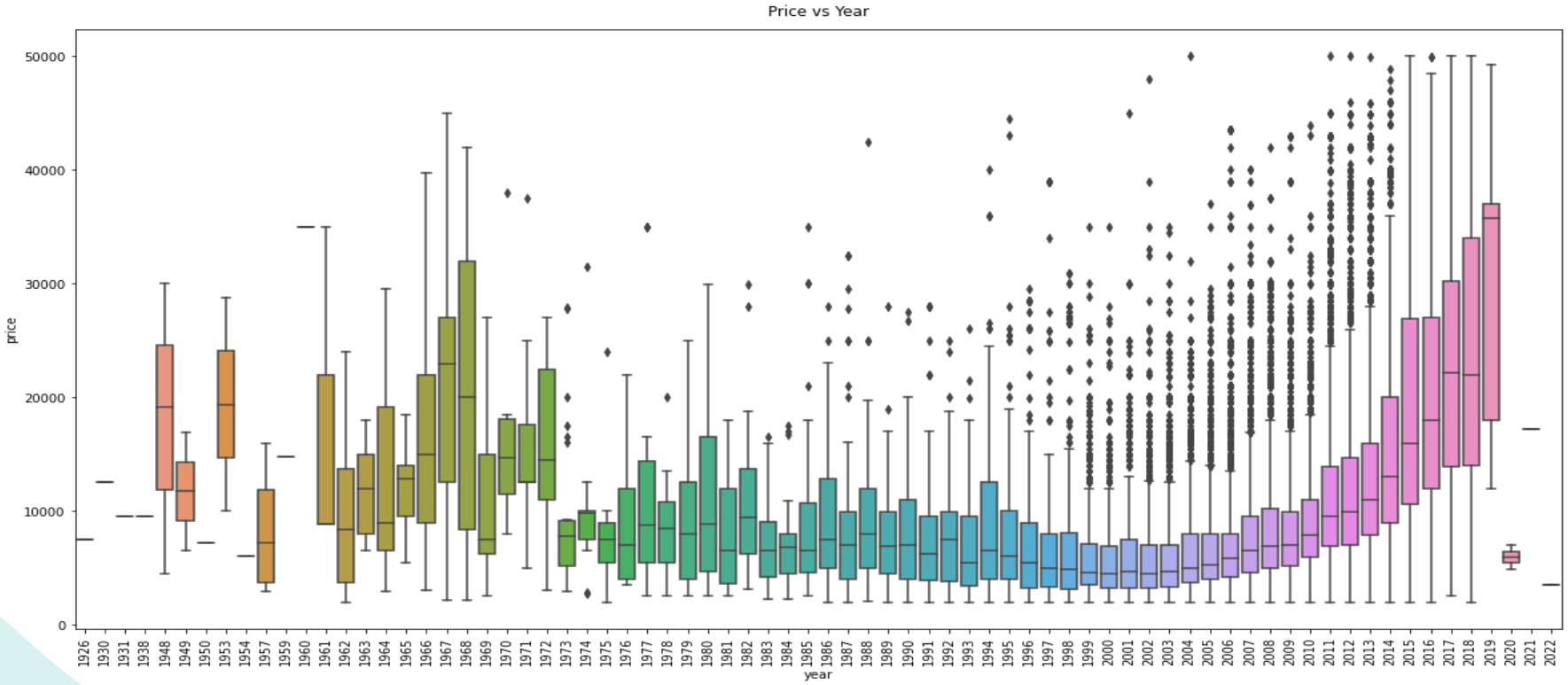
Price Distribution



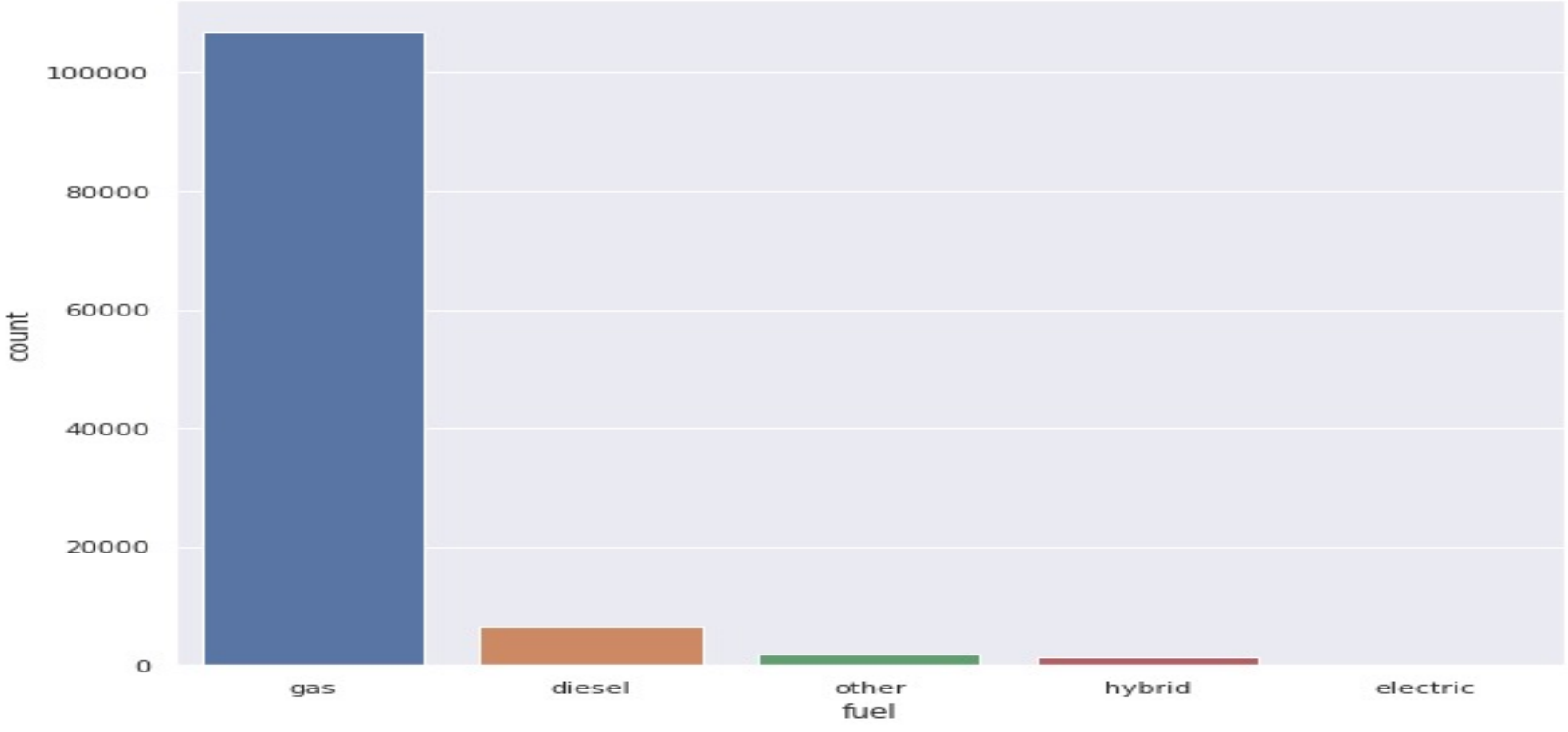
Price vs Odometer



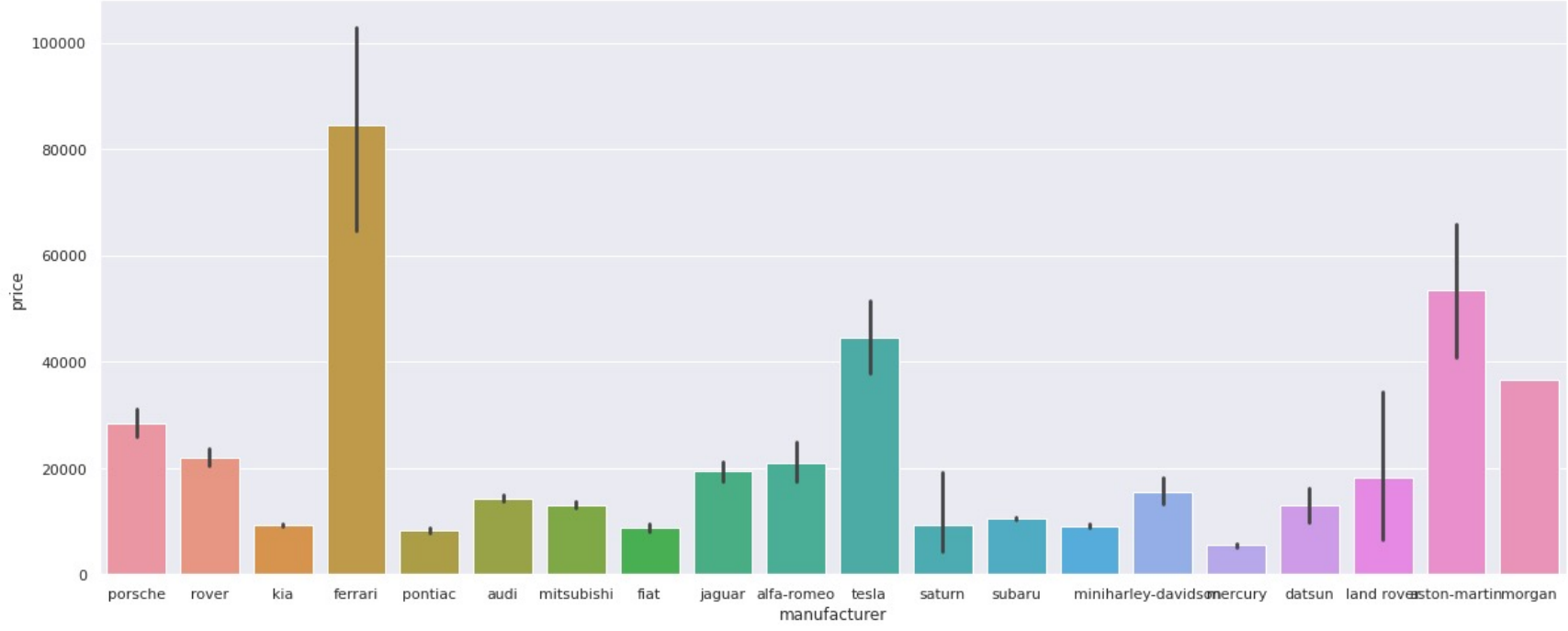
Price vs Year



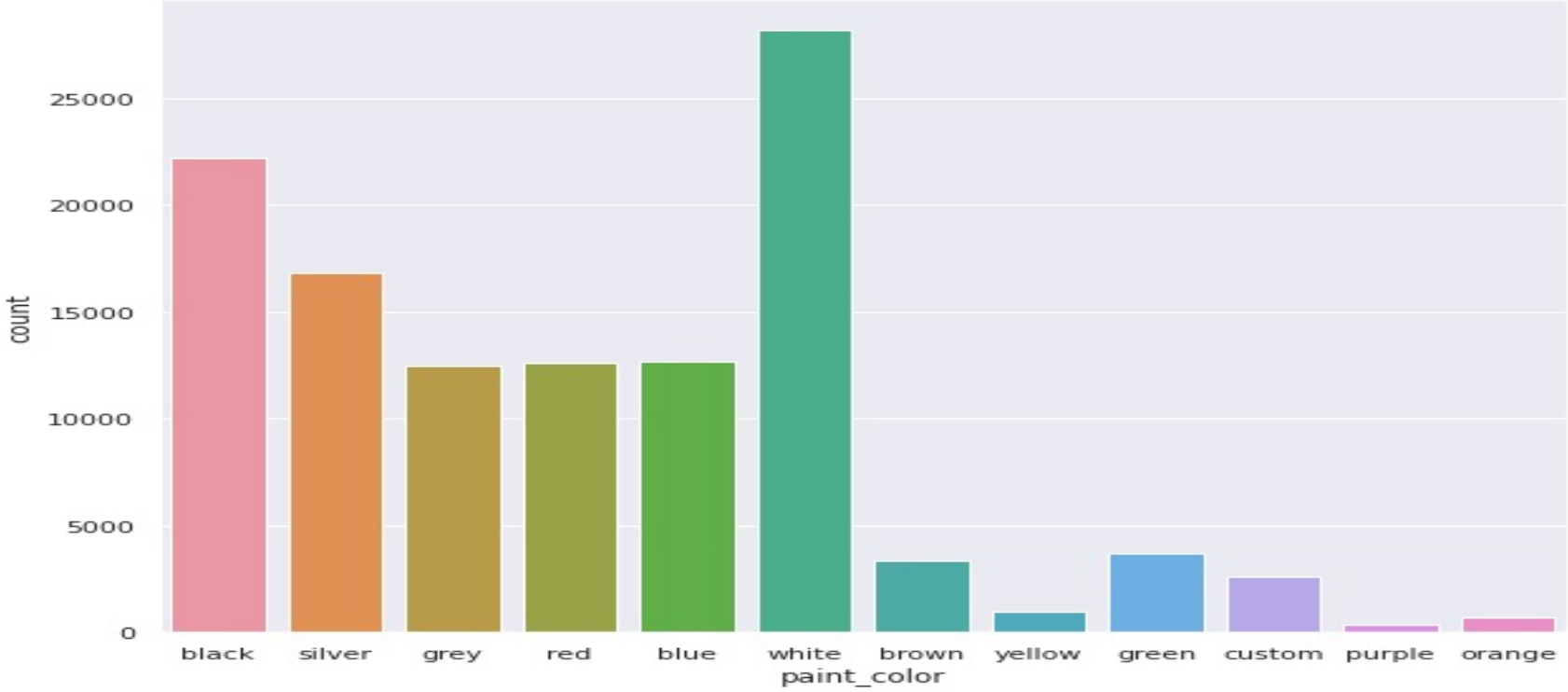
How price of cars is effected by the fuel ?



HOW PRICE IS RELATED TO DIFFERENT KINDS OF MANUFACTURING



What is the common color for used car



Prediction Models

COMPETITION ANALYSIS

Model	R^2	RMSE	Best one
Linear Regression	0.000484	2.80	
Lasso	0.000485	2.62	
LightGBM	0.80	2.44	✓
Random Forest	0.78	1.24	

THANKS!

Do you have any questions?

- https://github.com/FaiAlomair
- https://github.com/nadiahajrasiaa