(https://archive.ics.uci.edu/ml/datasets/wine+quality)

Project: Automobile - Predict "Price"

Deadline: 2020-07-12 18:00:00

Total marks: 3.0

Your information:

- Fullname:
- Date of birth:
- Place of birth:
- Email:
- Mobile phone:

In this notebook, we practice all the knowledge and skills that we learned in this course.

We apply the **Linear Algorithm** to predict: "price of car" by accuracy evaluation methods.

Please read Automobile information (https://archive.ics.uci.edu/ml/datasets/Automobile) carefully before you do this project!

Dataset: imports_85.csv

Attribute Information:

Attribute: Attribute Range

1. symboling: -3, -2, -1, 0, 1, 2, 3.
2. normalized-losses: continuous from 65 to 256.
3. make: alfa-romero, audi, bmw, chevrolet, dodge, honda, isuzu, jaguar, mazda, mercedes-benz, mercury, mitsubishi, nissan, peugot, plymouth, porsche, renault, saab, subaru, toyota, volkswagen, volvo
4. fuel-type: diesel, gas.
5. aspiration: std, turbo.
6. num-of-doors: four, two.
7. body-style: hardtop, wagon, sedan, hatchback, convertible.
8. drive-wheels: 4wd, fwd, rwd.
9. engine-location: front, rear.
10. wheel-base: continuous from 86.6 120.9.
11. length: continuous from 141.1 to 208.1.
12. width: continuous from 60.3 to 72.3.
13. height: continuous from 47.8 to 59.8.
14. curb-weight: continuous from 1488 to 4066.
15. engine-type: dohc, dohcv, l, ohc, ohcf, ohcv, rotor.
16. num-of-cylinders: eight, five, four, six, three, twelve, two.
17. engine-size: continuous from 61 to 326.
18. fuel-system: 1bbl, 2bbl, 4bbl, idi, mfi, mpfi, spdi, spfi.
19. bore: continuous from 2.54 to 3.94.
20. stroke: continuous from 2.07 to 4.17.
21. compression-ratio: continuous from 7 to 23.
22. horsepower: continuous from 48 to 288.
23. peak-rpm: continuous from 4150 to 6600.
24. city-mpg: continuous from 13 to 49.
25. highway-mpg: continuous from 16 to 54.
26. price: continuous from 5118 to 45400.

Requirements:

- Data exploration
- Data visualization
- Pre-processing: Feature selection/extraction
- Linear Regression
  - Model Evaluation using Test set
  - Report

In [ ]: