Machine Learning - Ex – Multi Linear Regression

Ex1

Ex4_1.csv file contain data about death for some categories

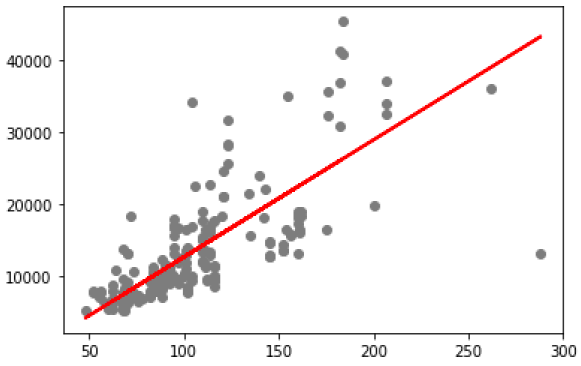
- Check MANUALLY (by your eyes) for missing data.
- Find the coefficients of the prediction model
- Find the feature with the most influence of the death rate (with OUT correlation matrix)
- Create a bar plot for predicted and actual data.
- Predict what would be the death rate for
    - Doctor availability: 79
    - Hospital availability: 720
    - Annual per capita: 9.52
    - Population density: 132

Ex2

Ex4_2.csv contains data about Automobiles prices.

The relevant features are: “num-of_cylinders”, “engine-size” and ”horse-power”

- Fill missing data at all the features
- Prove a correlation between the “horse-power” (ONLY) and the price by a Scatter plot and a line for the predicted prices as follows :



- Train the model with ALL relevant features

- Calculate the accuracy (R^2) of the model (Is it good enough?)