Python for Data Analysis By: Atefeh Khazaei Week#10 – Practicals

In this practical sheet, you should analyse the following dataset and present a simple Linear Regression model.

Medical Insurance Costs Dataset

This dataset was inspired by the book Machine Learning with R by Brett Lantz. The data contains medical information and costs billed by health insurance companies. It contains 1338 rows of data and the following columns: age, gender, BMI, children, smoker, region and insurance charges.

Link: https://www.kaggle.com/mirichoi0218/insurance

Apply what you learned in this class and try to do the following CRISP-DM phases:

- 1- Data Understanding
 - Info
 - Describe
 - Data Visualization
- 2- Data Preparation
 - Handling Missing Values
 - Handling Outliers
 - Normalization
 - Dummy
- 3- Modelling
 - Linear Regression
- 4- Evaluation
 - MAE