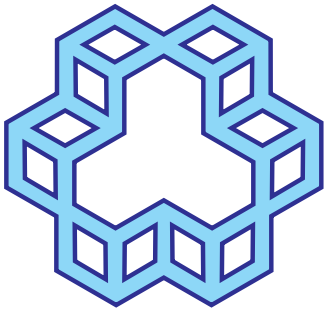

K. N. Toosi University of Technology

Faculty of Physics
Educational Group of
Atomic-Molecular and Astronomy

Machine Learning Quizzes (Quiz 2)

by
Ali Bagheri

Teacher
Dr. Mohammad Hossein Zhoolideh

Academic Year 1401-1402
(First Semester)

1 CO_2 Emission

In this question, we ask you to predict the amount of CO_2 produced by each car. You can download the required data from this link.[1] Use this data and build a model that predicts the amount of CO_2 produced by each car based on the engine volume and weight.

Important Points

- You have to implement the algorithm yourself. If you use built-in functions of machine learning packages, you will not receive a score.
- Be sure to leave appropriate comments for different parts of your code. A part of your score is allocated to your comments and explanations.
- First, visualize your data. After reading the data, display it and plot the values of each feature in terms of the target values in a separate graph and try to provide a short analysis of it.

[1] To save the dataset, you need to press Ctrl+S on the opened page and save the csv file.