

# Machine Learning Course

## Project #2

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1. In this project, a dataset of Toyota Corolla cars is given to you, and the goal is to train a model to estimate the price of the car according to its various features. All the necessary information is provided to you in a file called ToyotaCorolla.xls. The first sheet is a description of the features and the second sheet contains all the data. First, separate the 70% of data as train data. Divide the rest of the data into two equal categories for validation and test. It is emphasized that you use the test data only to report the final accuracy and do not use it in the rest of the process. It should be noted that in this project you are allowed to use packages such as sklearn that have the functions of machine learning methods ready. Also, naturally, the two columns ID and Model should not be used, so delete them. Report all regression performance metrics.

You can access the desired dataset using the link below:

<https://drive.google.com/file/d/1EA-TvW8iM0WOenrnbe3xey8s6XWOkCnj/view?usp=sharing>

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2. You have been given another dataset about the chances of being accepted to different universities with different rankings. Run the code you wrote in the previous section on this dataset and report all regression performance metrics.

You can access the desired dataset using the link below:

<https://drive.google.com/file/d/1jsAxHuX8tR-iPEdWSkc1m8O6WMDUwdHO/view?usp=sharing>