

CMPE 407

Homework 02 Deadline: 17.05.2022 23.59

May 10, 2022

RULES

- Codes without documentation (comments) will not be evaluated.
- This work is an individual study. Plagiarism is strictly prohibited, involved students will get zero.

SUBMISSION

- Submit your solution as [id name surname cmpe407 hw02].ipynb. Do not use Turkish characters in file naming.
- Solution without comments will not be evaluated.
- Late submissions will not be accepted. Submission system will be closed after deadline. Submissions via e-mail will not be accepted.

QUESTION

- (20 point) Visualize the Mobile Phone dataset uploaded in Learn (1). Apply the necessary pre-processing to prepare the data for the models.
- (20 point) Choose your aim (for example, predicting the gender etc.) Choose one machine learning technique (classification, regression, or clustering) to full your aim. Explain your aim and why you selected the technique that you chose.
- (40 point) Train different models. Make different experiments with different hyper-parameters to find the best model for given dataset.
- (20 point) Provide discussion about your results. The qualitative will be considered more worthy than the explanations.

Note: Ensure that your programs are fully documented, using comments.

(1) For details about dataset: <https://www.kaggle.com/iabhishekofficial/mobile-price-classification>