Exercise 1 - deadline 19.03.2021 23:59

Build and use a classifier to predict the income for a person based on census data. Data can be found here:

https://archive.ics.uci.edu/ml/machine-learning-databases/adult/

You have both the training dataset and the testing dataset. Do not use the test dataset in any way to build the classifier.

The goals of the exercise:

- 1. Build your first machine learning exercise
- 2. Understand how to load data, understand the features, type and role of attributes.
- 3. Understand what missing values are, and simple ways to handle them (ignoring them).
- 4. Basic preparation of data.
- 5. Create a classification model, using two techniques. (e.g. decision trees and naive bayes)
- 6. Evaluate a model using the test data.
- 7. Use the model to predict the class for new data.

The final submission should contain (at least) one script to contain all the goals mentioned before.

Optional goals:

- 1. Improve the efficiency of the chosen model. Describe the steps you did and the improvement.
- Save the model and load it in a different script where you use the model to make predictions. In other words, separate the model creation script from the model utilisation script.

Important Note:

The submission should be done individually. Please name your script/notebook accordingly. At the beginning of your script / notebook give the name(s) of all students who worked on the exercise. You may work in small groups (of 2-3) but all students must be confident with the work of others. They should understand and be able to answer detailed questions of the implementation.