MSc in Data Science

Machine Learning

Academic Year: 2022-2023

Exercise 2: Machine Learning Project

Delivery Date: **23/01/2023**

The objective of this exercise is to apply, design, train, tune and evaluate Machine Learning methodologies in a particular application domain. **The selection of the particular project's application domain is free.**

As an example, some indicative datasets could be the following:

- Digit Recognizer task (https://www.kaggle.com/c/digit-recognizer/data)
- Fashion MNIST (https://www.kaggle.com/zalando-research/fashionmnist)
- Titanic - Machine Learning from Disaster (https://www.kaggle.com/c/titanic/data)
- Disease Prediction (https://www.kaggle.com/kaushil268/disease-prediction-using-machine-learning)
- MovieLens 20M Dataset (https://www.kaggle.com/grouplens/movielens-20m-dataset)
- Netflix Movies and TV Shows (https://www.kaggle.com/shivamb/netflix-shows/tasks)
- Credit Card Approval Prediction (https://www.kaggle.com/rikdifos/credit-card-approval-prediction)

The exercise has the following deliverables:

(a) A jupyter notebook with the description of the task, the dataset, the experiments and outcome.

(b) A presentation.