ML Best Practices

The Documents Folder

Flowchart

A flowchart has been included that provides a clear idea of the workflow of a Machine learning project. It can assist in selection of an algorithm depending on the problem statement and the various requirements such as speed, accuracy, etc.

Handbook

A handbook has been provided to give a brief overview of the various algorithms covered. It consists of Description, Hyperparameters, Pros, Cons, and relevant Links of the respective algorithms and can give a fair idea of the algorithm.

The Repository

The following repository consists of notebooks for various Machine Learning algorithms. The notebooks are classified on the basis of different objectives, such as:

1. EDA

2. Pre-processing

3. Pre-modelling

4. a. Classification

   b. Regression

   c. Text Classification

   d. Time Series

5. Post Modelling

Each of these eight notebooks contains number of methods along with their brief description and standard codes. These have been provided for both Python and R languages, present in the respective folders above. Inside each of these two folders the following have been provided:

1. The dataset folder: Contains all the datasets that have been used in the notebook codes. You might consider downloading these before proceeding or download them as per your requirement. The datasets can also be downloaded using the links that have been provided in the notebooks.

2. The notebook folders: There are eight notebook folders in each of the two folders for Python and R. The contents inside the notebook folders are as follows:

   2.a .ipynb files: These are notebooks that can be downloaded and used as required.

   2.b pdfs: These pdf files would walk you through the contents of the notebook. It has been provided to allow you to visualize the contents of the .ipynb files.

3. README.md: To give a clear idea of which notebooks contains the content that is searched for a readme file has been provided with the index of all the topics inside the notebooks. Please go through these topics and download the notebook accordingly.