Assignment No. 3

November 1, 2018

Task A

*According to **data you select by yourself**, please apply the following required actions:*

- Descriptive statistics (Data Analysis + Visualization).
- Data Preprocessing.
- *Create an API using flask with the following specifications:*
    - *User can choose which algorithm to train the model.*
    - *User can send data to be predicted by the selected model using the original shape of the data before preprocessing.*
    - *User can get an evaluation report using model evaluations metrices **in pretty HTML page not JSON format.***
    - *Model serialization.*
    - *Build a webpage for the required actions like:*
        - ❖ *User can select model name from dropdown list.*
        - ❖ *User can select features values from a dropdown list.*

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Notes

- This assignment will be delivered via your ***GitHub*** profile included dataset and python files ***(Jupyter notebook for data analysis task and python files for flask API)*** and the other format will be decreased by 20% of the task grade.
- After uploading your solution, you should send your GitHub profile link via mail on ***sayed.ali@appspatrols.com*, make sure this step or you will be scored by *Zero***.
- This assignment will be scored and reported to NTI.
- The evaluation will be ***10 degrees.***
- The ***deadline will be Monday 5 Nov. 2018 at 9:00 AM*** any submit after this deadline will be scored with ***Zero***.
- The Arabic text dataset will take 2 points as a bonus.
- The routes for API are:
    - ***/train***: for training and take the model name as argument for it
    - ***/predict***: for prediction and take the test as an argument/s.