22/05/2021

BLM19462E
Term Project Instructions

For the final project, you **must** choose one of machine learning algorithms that we covered in the course, experiment with applying that algorithm to a particular dataset or problem, and analyzing the results.

For your final project, you are expected to

- explain dataset/problem
    - problem type: classification/regression problem
    - display number of features
    - display number of instances,
    - display number of missing value,
    - class distribution for classification problems
    - compute and display summary statistics for each feature available in the dataset: distribution of data, range, min, max, mean, correlation between columns
- briefly explain your algorithm(s) and your implementation
- explain which performance metrics are used
- tune your model (explain how to select the parameters of your algorithm)
- train your model with the best setting
- provide and discuss the results
- give a brief description of what you learned in doing the project

Important Notes:

1. Make sure to label the axes on any plots you give in the presentation. Unlabeled axes will decrease your grade!
2. Say what language you used. If you used external machine-learning libraries or other code, please cite what you used.
3. You should submit a single Jupyter Notebook file

Good Luck
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