Assignment 3 (50 marks total)

The data for this assignment is available at this link.

Question 1

10 marks

Question text goes here

Question 2

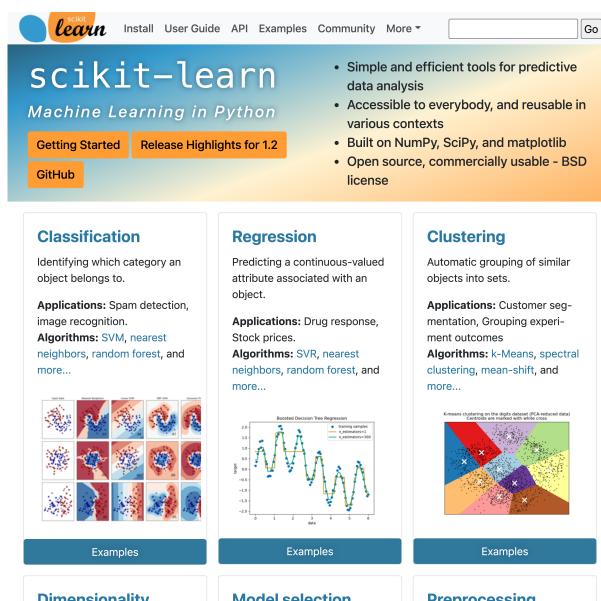
20 marks

Another question

Question 3

20 marks

A question with an image:



Dimensionality reduction

Reducing the number of random variables to consider.

Applications: Visualization, In-

creased efficiency

Algorithms: PCA, feature selection, non-negative matrix

Model selection

Comparing, validating and choosing parameters and models.

Applications: Improved accuracy via parameter tuning Algorithms: grid search, cross validation, metrics, and more...

Preprocessing

Feature extraction and normalization.

Applications: Transforming input data such as text for use with machine learning algorithms.

Algorithms: preprocessing,

Figure 1: An image

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