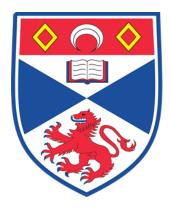
University of St Andrews

MACHINE LEARNING CS5014

Classification

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Goal

The goal of this practical is to analyse a dataset in order to produce a classification model that can make predictions based on a set of inputs.

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Part I

Loading Data

To load the data, the paths to the relevant files are supplied as arguments to the $_main__.py$ script. The pandas module was used to load the file contents into DataFrames.

A test set was isolated from the original data using an 80%-20% split, using stratification to ensure that all classes were represented in the training data.

Part II Cleaning Data

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Part III

Data Visualisation and Analysis

- 1 Distributions
- 2 Relationships

Part IV

Feature Selection

Part V

Model Selection and Training

- 3 Model 1
- 4 Model 2

Part VI

Evaluation and Comparison

Part VII

Discussion

References