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| **Module** | EE5904 |
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| **Project Title** | SVM for classification of Spam Email Messages |

# Data Pre-processing

Based on the SVM\_Project\_demo, we would need to pre-process the data by with our own method of choice. In this project, the pre-processing method chosen would be the Standardization method.

To standardize the data, each feature would be transformed by removing the mean value of each feature followed by dividing by each feature’s standard deviation as visualized below in equation 1:

Equation 1. Standardization Method

# Kernel Suitability

# Task 1: Compute discriminant function

# Task 2: Implementation of SVMs

## Classification Results

## Discuss results and implications

# Task 3: Design own SVM

## Kernel Choice: Gaussian RBF

## Classification Results

## Creation and Testing of Evaluation Data