**System ‘Spamfree’**

**Version:** 0.1

**Title**: Spamfree Interface

**Description**: This system uses the most efficient model built from spambase dataset to detect whether a given text file is a spam email or not. The model used is AdaBoostM1 based on PART classifier. Given text file path, the text will be transferred to the same format as spambase in order to using the model to predict the result: spam or non-spam.

**Depends**: R(>=3.3.1)

**Required Library**: RWeka foreign

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## detect\_spam *detecting whether the email is spam or non-spam*

**Description**

Interface to detect a given file whether is spam or not by using the model built from dataset

**Usage**

detect\_spam (path, emailspam, model)

**Argument**

path The path to txt format email

emailspam the data frame of the dataset for model

model the model got from training and testing the dataset

**Examples**

> Emailspam <-read.arff(“spambase.arff”)

>#build the model

> emailspam\_AdaBoostM1 <- AdaBoostM1(spam~., data=emailspam, control = Weka\_control(W = "PART"))

> detect\_spam("spmsga101.txt", emailspam, emailspam\_AdaBoostM1)

[1] "spam"

> detect\_spam("spmsga139.txt",emailspam, emailspam\_AdaBoostM1)

[1] "non-spam"