**Report Summary**

The Naive Bayes method is fully implemented in the Python programme, which is used to categorise text content. The program reads the texts from the 20 newsgroups dataset, pre-processes the text, and then trains a Naive Bayes model on the pre-processed text. The program then classifies a collection of test documents using the trained model, and outputs the model's accuracy.

In the beginning, the program imports the necessary Python libraries, including os, string, nltk, itertools, and sklearn. The application then reads the list of folders and files included within those directories from the dataset of 20 newsgroups. The labels for the papers are the folder names, and the file locations are kept in a list. Then the program divides.

The software then specifies a number of routines for de-metadataing the text data, cleaning the text data, and word splitting. The text data is pre-processed using these functions.

The Naive Bayes model is then trained using the pre-processed text data. The Naive Bayes model has techniques for fitting the model to the training data and predicting the class labels of the test data, and class is specified for the model. The Naive Bayes model is subsequently created by the code and fitted to the training set of data.

Lastly, the code computes the model's accuracy and outputs a result of 71.43% by applying the trained model to predict the class labels of the test data.