## *Assignment 2 Part 2: Algorithm Description and Results*

Implementing Naive Bayes Classifier using Spark MapReduce

**Priors for each class:**

**A screenshot of a phone number

Description automatically generated**

**Evaluation:** The accuracy is low as the implementation of Naïve Bayes classifier is very simple without any optimizations. For comparison, SKlearn’s vanilla NB gives accuracy of 73% with TFIDF vectorization.

|  |  |
| --- | --- |
| *Accuracy* | *0.66* |
| *Precision* | *0.59* |
| *Recall* | *0.68* |
| *F1 measure*: | *0.64* |

**Algorithm description:**

A math problem with text

Description automatically generated with medium confidence