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| SUBJECT: DWM | PROJECT-3 |

Using Cross-Validation on the algorithms:-

1. **NAÏVE BAYES ALGORITHM:**

Table

Description automatically generated with low confidence

1. **REPTREE:**

**A picture containing table

Description automatically generated**

1. **PART:**

**Graphical user interface

Description automatically generated with medium confidence**

1. **HoeffdingTree**

Graphical user interface

Description automatically generated

**SUMMARY:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | NAÏVE BAYES | REPTREE | HoeffdingTree | PART |
| Correctly classified instances(%): | 78.9651% | 69.2913% | 71.766% | 77.2903% |

Hence, we find that NaiveBayes has the best accuracy among all other algorithms.

Improving the NaïveBayes Algorithm even further by using ensemble technique to it by combining multiple classifiers and selecting the best one based on s predefined criterion.

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text

Description automatically generated

Hence we have successfully increased the accuracy of NaiveBayes from 78.9651% to 81.2148%

i.e. we have achieved an increment of 2.2497%