|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | Feature Sets | | | | | |
| Classifiers | Evaluation Metrics | TF-IDF | Unigram | Bigram | Trigram | Bigram+  TF-IDF | Trigram+  TF-IDF |
| Naïve Bayes | Accuracy | 0.529 |  |  |  |  |  |
| Precision | 0.752 |  |  |  |  |  |
| Recall | 0.235 |  |  |  |  |  |
| F1 score | 0.358 |  |  |  |  |  |
| Random Forest | Accuracy | 0.651 |  |  |  |  |  |
| Precision | 0.703 |  |  |  |  |  |
| Recall | 0.588 |  |  |  |  |  |
| F1 score | 0.641 |  |  |  |  |  |
| Decision Tree | Accuracy | 0.614 |  |  |  |  |  |
| Precision | 0.680 |  |  |  |  |  |
| Recall | 0.585 |  |  |  |  |  |
| F1 score | 0.629 |  |  |  |  |  |

Table1: Result table for Train Test ratio 80:20

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | Feature Sets | | | | | |
| Classifiers | Evaluation Metrics | TF-IDF | Unigram | Bigram | Trigram | Bigram+  TF-IDF | Trigram+  TF-IDF |
| Naïve Bayes | Accuracy | 0.529 |  |  |  |  |  |
| Precision | 0.752 |  |  |  |  |  |
| Recall | 0.235 |  |  |  |  |  |
| F1 score | 0.358 |  |  |  |  |  |
| Random Forest | Accuracy | 0.651 |  |  |  |  |  |
| Precision | 0.703 |  |  |  |  |  |
| Recall | 0.588 |  |  |  |  |  |
| F1 score | 0.641 |  |  |  |  |  |
| Decision Tree | Accuracy | 0.614 |  |  |  |  |  |
| Precision | 0.680 |  |  |  |  |  |
| Recall | 0.585 |  |  |  |  |  |
| F1 score | 0.629 |  |  |  |  |  |

Table1: Result table for 10-fold cross validation