|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | Feature Sets | | | |
| Classifiers | Evaluation Metrics | TF-IDF | Word2vec | Glove | FastText |
| Naïve Bayes | Accuracy |  |  |  |  |
| Precision |  |  |  |  |
| Recall |  |  |  |  |
| F1 score |  |  |  |  |
| SVM | Accuracy | 0.727 |  |  |  |
| Precision | 0.767 |  |  |  |
| Recall | 0.613 |  |  |  |
| F1 score | 0.672 |  |  |  |
| KNN | Accuracy |  |  |  |  |
| Precision |  |  |  |  |
| Recall |  |  |  |  |
| F1 score |  |  |  |  |
| Random Forest | Accuracy |  |  |  |  |
| Precision |  |  |  |  |
| Recall |  |  |  |  |
| F1 score |  |  |  |  |
| Decision Tree | Accuracy |  |  |  |  |
| Precision |  |  |  |  |
| Recall |  |  |  |  |
| F1 score |  |  |  |  |

Table 1: 10-Fold Cross Validation based on accuracy

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | Feature Sets | | | |
| Classifiers | Evaluation Metrics | TF-IDF | Word2vec | Glove | FastText |
| Naïve Bayes | Accuracy |  |  |  |  |
| Precision |  |  |  |  |
| Recall |  |  |  |  |
| F1 score |  |  |  |  |
| SVM | Accuracy | 0.690 |  |  |  |
| Precision | 0.826 |  |  |  |
| Recall | 0.463 |  |  |  |
| F1 score | 0.594 |  |  |  |
| KNN | Accuracy |  |  |  |  |
| Precision |  |  |  |  |
| Recall |  |  |  |  |
| F1 score |  |  |  |  |
| Random Forest | Accuracy |  |  |  |  |
| Precision |  |  |  |  |
| Recall |  |  |  |  |
| F1 score |  |  |  |  |
| Decision Tree | Accuracy |  |  |  |  |
| Precision |  |  |  |  |
| Recall |  |  |  |  |
| F1 score |  |  |  |  |

Table 2: Result table for Train Test ratio 80:20