**YouTube Data set results**

**SVM Model Results:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Features Used | SVC | | LinearSVC | | NuSVC | |
| Precision | Recall | Precision | Recall | Precision | Recall |
| Audio & Text | 0.55 | 0.54 | 0.55 | 0.48 | 0.25 | 0.37 |
| Audio | 0.32 | 0.50 | 0.46 | 0.44 | 0.32 | 0.50 |
| Text | 0.45 | 0.43 | 0.43 | 0.39 | 0.48 | 0.48 |

**Random Forest Classifier Model Results**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Features Used | RandomForestClassifier | | ExtraTreesClassifier | | DecisonTreeClassifier | |
| Precision | Recall | Precision | Recall | Precision | Recall |
| Audio & Text | 0.31 | 0.37 | 0.46 | 0.43 | 0.50 | 0.33 |
| Audio | 0.45 | 0.48 | 0.51 | 0.54 | 0.40 | 0.43 |
| Text | 0.41 | 0.41 | 0.55 | 0.52 | 0.39 | 0.39 |

**Logistic Regression Model Results**

|  |  |  |
| --- | --- | --- |
| Features Used | Logistic Regression | |
| Precision | Precision |
| Audio & Text | 0.48 | 0.46 |
| Audio | 0.45 | 0.41 |
| Text |  |  |

**Neural Network Results:**

|  |  |  |
| --- | --- | --- |
| Features Used | RNN | |
| Accuracy | Test Score |
| Audio & Text | 0.69 | 0.62 |

|  |  |  |
| --- | --- | --- |
| Features | Total Number | After PCA (0.95) |
| Audio & Text |  |  |
| Audio |  |  |
| Text |  |  |