**NLP MODEL EVALUATION METRICS**

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| **SNO** | **MODEL NAME** | **MODEL PERFORMANCE** |
|  | **Multinomial Naive Bayes Model** | **Score: 0.79**  **Accuracy: 66.67%** |
|  | **Simple LSTM** | **Score:**  **Accuracy:** |
|  | **Default Embedding** | |
|  | **80\_20 – Simple Neural Network** | **Score: 2.46**  **Accuracy: 43.6%** |
|  | **80\_20 – Sequential LSTM** | **Score: 1.89**  **Accuracy: 46.3%** |
|  | **80\_20 – Bidirectional LSTM** | **Score: 2.06**  **Accuracy: 46.26%** |
|  | **85\_15 - Simple Neural Network** | **Score: 2.46**  **Accuracy: 43.6%** |
|  | **85\_15 - Sequential LSTM** | **Score: 2.00**  **Accuracy: 45.94%** |
|  | **85\_15 - Bidirectional LSTM** | **Score: 2.31**  **Accuracy: 43.47%** |
|  | **90\_10 – Simple Neural Network** | **Score: 2.46**  **Accuracy: 43.6%** |
|  | **90\_10 – Sequential LSTM** | **Score: 2.34**  **Accuracy: 38.72%** |
|  | **90\_10 - Bidirectional LSTM** | **Score: 2.56**  **Accuracy: 45.63%** |
|  | **Glove Embedding** | |
|  | **80\_20 – Simple Neural Network** | **Score: 1.50**  **Accuracy: 54.25%** |
|  | **80\_20 – Sequential LSTM** | **Score: 1.53**  **Accuracy: 51.71%** |
|  | **80\_20 – Bidirectional LSTM** | **Score: 1.04**  **Accuracy: 66.92%** |
|  | **80\_20 – Bidirectional LSTM with Attention Layer** | **Score: 1.78**  **Accuracy: 50.06%** |
|  | **85\_15 - Simple Neural Network** | **Score: 2.59**  **Accuracy: 41.83%** |
|  | **85\_15 - Sequential LSTM** | **Score: 1.09**  **Accuracy: 50.45%** |
|  | **85\_15 - Bidirectional LSTM** | **Score: 1.09**  **Accuracy: 65.72%** |
|  | **85\_15 - Bidirectional LSTM with Attention Layer** | **Score: 1.92**  **Accuracy: 49.81%** |
|  | **90\_10 – Simple Neural Network** | **Score: 2.84**  **Accuracy: 44.17%** |
|  | **90\_10 – Sequential LSTM** | **Score: 2.06**  **Accuracy: 50.15%** |
|  | **90\_10 - Bidirectional LSTM** | **Score: 1.19**  **Accuracy: 66.0.3%** |
| **23.** | **90\_10 - Bidirectional LSTM with Attention Layer** | **Score: 2.13**  **Accuracy: 50.44%** |
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