|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Data Set*** | ***loss*** | accuracy | val\_loss | val\_accuracy |
|  | **CNN One Drop out layer + LSTM layer + BatchNormalization Layer** | | | |
| **1** | 0.0188 | 0.9948 | 0.1457 | 0.9732 |
| **2** | 0.0559 | 0.9832 | 0.2755 | 0.9330 |
|  | **CNN One Drop out layer + BIDI GRU(300) layer + BatchNormalization Layer** | | | |
| **1** | 0.0226 | 0.9922 | 0.1749 | 0.9725 |
| **2** | 0.0473 | 0.9848 | 0.2319 | 0.9494 |
|  | **CNN One Drop out layer + BIDI GRU(100) layer + BatchNormalization Layer** | | | |
| **1** | 0.0227 | 0.9928 | 0.1733 | 0.9707 |
| **2** | 0.0525 | 0.9815 | 0.2851 | 0.9432 |
|  | **CNN One Drop out layer + GRU layer + BatchNormalization Layer** | | | |
| **1** | 0.0150 | 0.9948 | 0.1817 | 0.9678 |
| **2** | 0.0434 | 0.9852 | 0.2937 | 0.9426 |
|  | **CNN One Drop out layer** | | | |
| **1** | 0.0220 | 0.9939 | 0.1976 | 0.9677 |
| **2** | 0.0871 | 0.9743 | 0.3252 | 0.9327 |
|  | **CNN One Drop out layer + LSTM layer + BatchNormalization Layer** | | | |
| **1** | 0.0354 | 0.9895 | 0.1545 | 0.9704 |
| **2** | 0.0602 | 0.9823 | 0.3241 | 0.9321 |
|  | **CNN One Drop out layer + Dense(Relu) Layer** | | | |
| **1** | 0.0128 | 0.9963 | 0.1573 | 0.9750 |
| **2** | 0.0673 | 0.9790 | 0.3285 | 0.9315 |
|  | **CNN One Drop out layer + Bidirectional LSTM layer + BatchNormalization** | | | |
| **1** | 0.0194 | 0.9949 | 0.1799 | 0.9682 |
|  | **CNN Two Drop out layer + Dense(Relu) Layer** | | | |
| **1** | 0.0462 | 0.9889 | 0.1833 | 0.9676 |
| **2** | 0.0849 | 0.9770 | 0.3799 | 0.9238 |
|  | **One Drop out layer + LSTM layer + BatchNormalization Layer + Dense(Relu)** | | | |
| **1** | 0.0215 | 0.9924 | 0.1687 | 0.9682 |
| **2** | 0.0741 | 0.9781 | 0.3593 | 0.9187 |
|  | **Bidirectional LSTM layer + BatchNormalization Layer** | | | |
| **1** | 2.5640e-05 | 1.0000 | 0.4684 | 0.8978 |
|  | **LSTM layer + BatchNormalization Layer** | | | |
| **1** | 3.8922e-05 | 1.0000 | 0.6191 | 0.8681 |