|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Accuracy | Precision | Recall | F-score |
|  |  |  |  |  |  |
| Word2Vec | LSTM | 0.781 | 0.787 | 0.678 | 0.728 |
|  | CNN | 0.78 | 0.786 | 0.677 | 0.727 |
|  | Transformer | 0.76 | 0.62 | 0.591 | 0.603 |
|  | Bi-LSTM | 0.773 | 0.76 | 0.656 | 0.709 |
|  | GPT3 | 0.78 | 0.784 | 0.652 | 0.719 |
|  |  |  |  |  |  |
| GloVe | LSTM | 0.781 | 0.796 | 0.666 | 0.725 |
|  | CNN | 0.708 | 0.683 | 0.607 | 0.643 |
|  | Transformer | 0.75 | 0.753 | 0.629 | 0.686 |
|  | Bi-LSTM | 0.776 | 0.803 | 0.67 | 0.731 |
|  | GPT3 | 0.779 | 0.791 | 0.666 | 0.723 |
|  |  |  |  |  |  |
| Uniform Random Weight | LSTM | 0.788 | 0.789 | 0.699 | 0.741 |
|  | CNN | 0.669 | 0.63 | 0.571 | 0.599 |
|  | Transformer | 0.771 | 0.769 | 0.676 | 0.719 |
|  | Bi-LSTM | 0.779 | 0.813 | 0.638 | 0.715 |
|  | GPT3 | 0.785 | 0.799 | 0.674 | 0.731 |
|  |  |  |  |  |  |
| Glorot Initialization | LSTM | 0.784 | 0.819 | 0.645 | 0.722 |
|  | CNN | 0.778 | 0.783 | 0.675 | 0.725 |
|  | Transformer | 0.78 | 0.796 | 0.663 | 0.723 |
|  | Bi-LSTM | 0.783 | 0.776 | 0.702 | 0.737 |
|  | GPT3 | 0.779 | 0.781 | 0.682 | 0.728 |
|  |  |  |  |  |  |
| Normal Weight Initialization | LSTM | 0.785 | 0.765 | 0.689 | 0.725 |
|  | CNN | 0.763 | 0.738 | 0.738 | 0.738 |
|  | Transformer | 0.784 | 0.806 | 0.661 | 0.727 |
|  | Bi-LSTM | 0.779 | 0.801 | 0.653 | 0.719 |
|  | GPT3 | 0.774 | 0.799 | 0.672 | 0.73 |