

## LIST OF TABLE

|                                                        |    |
|--------------------------------------------------------|----|
| <b>Table 1.1</b> Literature Review .....               | 2  |
| <b>Table 1.2</b> Research Timeline .....               | 7  |
| <b>Table 3.1</b> Dataset Mental Health.....            | 24 |
| <b>Table 3.2</b> Classifier Mechanism .....            | 24 |
| <b>Table 4.1</b> Libraries and Frameworks .....        | 24 |
| <b>Table 4.2</b> Tweet Posts Sample.....               | 27 |
| <b>Table 4.3</b> Hyperparameter LSTM.....              | 27 |
| <b>Table 4.4</b> Hyperparameter Tunning 1.....         | 28 |
| <b>Table 4.5</b> Hyperparameter Tunning 2.....         | 28 |
| <b>Table 4.6</b> Hyperparameter Tunning 3.....         | 28 |
| <b>Table 4.7</b> Hyperparameter Tunning 4.....         | 29 |
| <b>Table 4.8</b> Hyperparameter Tunning 5.....         | 29 |
| <b>Table 4.9</b> Hyperparameter Tunning 6.....         | 30 |
| <b>Table 4.10</b> Hyperparameter Tunning 7.....        | 30 |
| <b>Table 4.11</b> Hyperparameter Tunning 8.....        | 31 |
| <b>Table 4.12</b> Hyperparameter Tunning Results ..... | 31 |
| <b>Table 4.13</b> Hyperparameter Bi-LSTM.....          | 32 |
| <b>Table 4.14</b> Hyperparameter Tunning 1.....        | 33 |
| <b>Table 4.15</b> Hyperparameter Tunning 2.....        | 34 |
| <b>Table 4.16</b> Hyperparameter Tunning Results ..... | 37 |
| <b>Table 4.17</b> Hyperparameter LSTM Attention.....   | 38 |
| <b>Table 4.18</b> Hyperparameter Tunning 1.....        | 39 |
| <b>Table 4.19</b> Hyperparameter Tunning 2.....        | 39 |
| <b>Table 4.20</b> Hyperparameter Tunning 3.....        | 40 |
| <b>Table 4.21</b> Hyperparameter Tunning 4.....        | 40 |
| <b>Table 4.22</b> Hyperparameter Tunning 5.....        | 41 |
| <b>Table 4.23</b> Hyperparameter Tunning 6.....        | 41 |
| <b>Table 4.24</b> Hyperparameter Tunning 7.....        | 42 |
| <b>Table 4.25</b> Hyperparameter Tunning 8.....        | 42 |
| <b>Table 4.26</b> Hyperparameter Tunning Results ..... | 42 |

|                                                                                     |    |
|-------------------------------------------------------------------------------------|----|
| <b>Table 4.27</b> Classification Report LSTM.....                                   | 44 |
| <b>Table 4.28</b> Classification Report Bi-LSTM.....                                | 44 |
| <b>Table 4.29</b> Classification Report LSTM Attention.....                         | 45 |
| <b>Table 4.30</b> Psychologist Labels 1 .....                                       | 47 |
| <b>Table 4.31</b> Psychologist Labels 2 .....                                       | 48 |
| <b>Table 4.32</b> Psychologist Labe 3.....                                          | 48 |
| <b>Table 4.33</b> Performance Evaluation of Models against Psychologist Labels..... | 50 |