

**Project Development Phase**  
**Model Performance Test**

|               |  |
|---------------|--|
| Date          | 17 November 2023                           |
| Team ID       | Team-592536                                |
| Project Name  | AI Body Language Detector Using Media Pipe |
| Maximum Marks | 10 Marks                                   |

**Model Performance Testing:**

| S.No                               | Parameter          | Values  | Screenshot  |              |              |         |                   |                    |     |                                    |                    |   |                   |                    |       |                                    |                    |   |                     |               |   |                 |             |         |                 |           |     |
|------------------------------------|--------------------|---|---|--------------|--------------|---------|-------------------|--------------------|-----|------------------------------------|--------------------|---|-------------------|--------------------|-------|------------------------------------|--------------------|---|---------------------|---------------|---|-----------------|-------------|---------|-----------------|-----------|-----|
| 1.                                 | Model Summary      | <b>Total params:1625281 (6.20 MB)</b><br><b>Trainable params:1625281(6.20 MB)</b><br><b>Non-trainable params: 0</b> | <table><thead><tr><th>Layer (type)</th><th>Output Shape</th><th>Param #</th></tr></thead><tbody><tr><td>conv2d_2 (Conv2D)</td><td>(None, 62, 62, 32)</td><td>896</td></tr><tr><td>max_pooling2d_2 (MaxPoolin<br/>g2D)</td><td>(None, 31, 31, 32)</td><td>0</td></tr><tr><td>conv2d_3 (Conv2D)</td><td>(None, 29, 29, 64)</td><td>18496</td></tr><tr><td>max_pooling2d_3 (MaxPoolin<br/>g2D)</td><td>(None, 14, 14, 64)</td><td>0</td></tr><tr><td>flatten_1 (Flatten)</td><td>(None, 12544)</td><td>0</td></tr><tr><td>dense_4 (Dense)</td><td>(None, 128)</td><td>1605760</td></tr><tr><td>dense_5 (Dense)</td><td>(None, 1)</td><td>129</td></tr></tbody></table> <p>=====<br/>Total params: 1625281 (6.20 MB)<br/>Trainable params: 1625281 (6.20 MB)<br/>Non-trainable params: 0 (0.00 Byte)</p>  | Layer (type) | Output Shape | Param # | conv2d_2 (Conv2D) | (None, 62, 62, 32) | 896 | max_pooling2d_2 (MaxPoolin<br>g2D) | (None, 31, 31, 32) | 0 | conv2d_3 (Conv2D) | (None, 29, 29, 64) | 18496 | max_pooling2d_3 (MaxPoolin<br>g2D) | (None, 14, 14, 64) | 0 | flatten_1 (Flatten) | (None, 12544) | 0 | dense_4 (Dense) | (None, 128) | 1605760 | dense_5 (Dense) | (None, 1) | 129 |
| Layer (type)                       | Output Shape       | Param #   |   |              |              |         |                   |                    |     |                                    |                    |   |                   |                    |       |                                    |                    |   |                     |               |   |                 |             |         |                 |           |     |
| conv2d_2 (Conv2D)                  | (None, 62, 62, 32) | 896   |   |              |              |         |                   |                    |     |                                    |                    |   |                   |                    |       |                                    |                    |   |                     |               |   |                 |             |         |                 |           |     |
| max_pooling2d_2 (MaxPoolin<br>g2D) | (None, 31, 31, 32) | 0   |   |              |              |         |                   |                    |     |                                    |                    |   |                   |                    |       |                                    |                    |   |                     |               |   |                 |             |         |                 |           |     |
| conv2d_3 (Conv2D)                  | (None, 29, 29, 64) | 18496   |   |              |              |         |                   |                    |     |                                    |                    |   |                   |                    |       |                                    |                    |   |                     |               |   |                 |             |         |                 |           |     |
| max_pooling2d_3 (MaxPoolin<br>g2D) | (None, 14, 14, 64) | 0   |   |              |              |         |                   |                    |     |                                    |                    |   |                   |                    |       |                                    |                    |   |                     |               |   |                 |             |         |                 |           |     |
| flatten_1 (Flatten)                | (None, 12544)      | 0   |   |              |              |         |                   |                    |     |                                    |                    |   |                   |                    |       |                                    |                    |   |                     |               |   |                 |             |         |                 |           |     |
| dense_4 (Dense)                    | (None, 128)        | 1605760   |   |              |              |         |                   |                    |     |                                    |                    |   |                   |                    |       |                                    |                    |   |                     |               |   |                 |             |         |                 |           |     |
| dense_5 (Dense)                    | (None, 1)          | 129   |   |              |              |         |                   |                    |     |                                    |                    |   |                   |                    |       |                                    |                    |   |                     |               |   |                 |             |         |                 |           |     |
| 2.                                 | Accuracy           | <b>Training Accuracy -100</b><br><br><b>Validation Accuracy - 100</b>   | Epoch 1 - Training Accuracy (lr): 1.0<br>Epoch 1 - Validation Accuracy (lr): 1.0<br>Epoch 2 - Training Accuracy (lr): 1.0<br>Epoch 2 - Validation Accuracy (lr): 1.0<br>Epoch 3 - Training Accuracy (lr): 1.0<br>Epoch 3 - Validation Accuracy (lr): 1.0<br>Epoch 4 - Training Accuracy (lr): 1.0<br>Epoch 4 - Validation Accuracy (lr): 1.0<br>Epoch 5 - Training Accuracy (lr): 1.0<br>Epoch 5 - Validation Accuracy (lr): 1.0<br>Epoch 6 - Training Accuracy (lr): 1.0<br>Epoch 6 - Validation Accuracy (lr): 1.0<br>Epoch 7 - Training Accuracy (lr): 1.0<br>Epoch 7 - Validation Accuracy (lr): 1.0<br>Epoch 8 - Training Accuracy (lr): 1.0<br>Epoch 8 - Validation Accuracy (lr): 1.0<br>Epoch 9 - Training Accuracy (lr): 1.0<br>Epoch 9 - Validation Accuracy (lr): 1.0<br>Epoch 10 - Training Accuracy (lr): 1.0<br>Epoch 10 - Validation Accuracy (lr): 1.0<br>Epoch 1 - Training Accuracy (rc): 1.0<br>Epoch 1 - Validation Accuracy (rc): 1.0<br>Epoch 2 - Training Accuracy (rc): 1.0<br>Epoch 2 - Validation Accuracy (rc): 1.0<br>Epoch 3 - Training Accuracy (rc): 1.0<br>Epoch 3 - Validation Accuracy (rc): 1.0<br>Epoch 4 - Training Accuracy (rc): 1.0<br>Epoch 4 - Validation Accuracy (rc): 1.0<br>Epoch 5 - Training Accuracy (rc): 1.0 |              |              |         |                   |                    |     |                                    |                    |   |                   |                    |       |                                    |                    |   |                     |               |   |                 |             |         |                 |           |     |

|    |                                       |  |                |
|----|---------------------------------------|--|----------------|
| 3. | Confidence Score (Only Yolo Projects) | Class Detected - NA<br><br>Confidence Score - NA | Not Applicable |
|----|---------------------------------------|--|----------------|

Screenshot:

Model Summary

| Layer (type)                        | Output Shape       | Param # |
|-------------------------------------|--------------------|---------|
| conv2d_2 (Conv2D)                   | (None, 62, 62, 32) | 896     |
| max_pooling2d_2 (MaxPooling2D)      | (None, 31, 31, 32) | 0       |
| conv2d_3 (Conv2D)                   | (None, 29, 29, 64) | 18496   |
| max_pooling2d_3 (MaxPooling2D)      | (None, 14, 14, 64) | 0       |
| flatten_1 (Flatten)                 | (None, 12544)      | 0       |
| dense_4 (Dense)                     | (None, 128)        | 1605760 |
| dense_5 (Dense)                     | (None, 1)          | 129     |
| Total params: 1625281 (6.20 MB)     |                    |         |
| Trainable params: 1625281 (6.20 MB) |                    |         |
| Non-trainable params: 0 (0.00 Byte) |                    |         |

Accuracy

|  |
|--|
| Epoch 1 - Training Accuracy (lr): 1.0    |
| Epoch 1 - Validation Accuracy (lr): 1.0  |
| Epoch 2 - Training Accuracy (lr): 1.0    |
| Epoch 2 - Validation Accuracy (lr): 1.0  |
| Epoch 3 - Training Accuracy (lr): 1.0    |
| Epoch 3 - Validation Accuracy (lr): 1.0  |
| Epoch 4 - Training Accuracy (lr): 1.0    |
| Epoch 4 - Validation Accuracy (lr): 1.0  |
| Epoch 5 - Training Accuracy (lr): 1.0    |
| Epoch 5 - Validation Accuracy (lr): 1.0  |
| Epoch 6 - Training Accuracy (lr): 1.0    |
| Epoch 6 - Validation Accuracy (lr): 1.0  |
| Epoch 7 - Training Accuracy (lr): 1.0    |
| Epoch 7 - Validation Accuracy (lr): 1.0  |
| Epoch 8 - Training Accuracy (lr): 1.0    |
| Epoch 8 - Validation Accuracy (lr): 1.0  |
| Epoch 9 - Training Accuracy (lr): 1.0    |
| Epoch 9 - Validation Accuracy (lr): 1.0  |
| Epoch 10 - Training Accuracy (lr): 1.0   |
| Epoch 10 - Validation Accuracy (lr): 1.0 |
| Epoch 1 - Training Accuracy (rc): 1.0    |
| Epoch 1 - Validation Accuracy (rc): 1.0  |
| Epoch 2 - Training Accuracy (rc): 1.0    |
| Epoch 2 - Validation Accuracy (rc): 1.0  |
| Epoch 3 - Training Accuracy (rc): 1.0    |
| Epoch 3 - Validation Accuracy (rc): 1.0  |
| Epoch 4 - Training Accuracy (rc): 1.0    |
| Epoch 4 - Validation Accuracy (rc): 1.0  |
| Epoch 5 - Training Accuracy (rc): 1.0    |