

Project Development Phase Model Performance Test

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| Date | 18 November 2022 |
| Team ID | PNT2022TMID53094 |
| Project Name | Digital Naturalist |
| Maximum Marks | 10 Marks |

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

| S.No. | Parameter | Values | Screenshot | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------------------|---|---|--------------|---------|---------------------------|--------------------|----------|---------------------|---------------|---|-----------------|------------|---------|---|--------------|--------------|---------|---------------------------|--------------------|----------|---------------------|---------------|---|-----------------|------------|---------|
| 1. | Model Summary | <div>Model: "sequential_1"</div> <table><thead><tr><th>Layer (type)</th><th>Output Shape</th><th>Param #</th></tr></thead><tbody><tr><td>inception_v3 (Functional)</td><td>(None, 5, 5, 2048)</td><td>21802784</td></tr><tr><td>flatten_7 (Flatten)</td><td>(None, 51200)</td><td>0</td></tr><tr><td>dense_1 (Dense)</td><td>(None, 30)</td><td>1536030</td></tr></tbody></table> | Layer (type) | Output Shape | Param # | inception_v3 (Functional) | (None, 5, 5, 2048) | 21802784 | flatten_7 (Flatten) | (None, 51200) | 0 | dense_1 (Dense) | (None, 30) | 1536030 | <div>Model: "sequential_1"</div> <table><thead><tr><th>Layer (type)</th><th>Output Shape</th><th>Param #</th></tr></thead><tbody><tr><td>inception_v3 (Functional)</td><td>(None, 5, 5, 2048)</td><td>21802784</td></tr><tr><td>flatten_7 (Flatten)</td><td>(None, 51200)</td><td>0</td></tr><tr><td>dense_1 (Dense)</td><td>(None, 30)</td><td>1536030</td></tr></tbody></table> <div>Total params: 23,338,814 Trainable params: 12,077,470 Non-trainable params: 11,261,344</div> | Layer (type) | Output Shape | Param # | inception_v3 (Functional) | (None, 5, 5, 2048) | 21802784 | flatten_7 (Flatten) | (None, 51200) | 0 | dense_1 (Dense) | (None, 30) | 1536030 |
| Layer (type) | Output Shape | Param # | | | | | | | | | | | | | | | | | | | | | | | | | |
| inception_v3 (Functional) | (None, 5, 5, 2048) | 21802784 | | | | | | | | | | | | | | | | | | | | | | | | | |
| flatten_7 (Flatten) | (None, 51200) | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
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| dense_1 (Dense) | (None, 30) | 1536030 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Accuracy | <div>Training Accuracy - 98.46 %</div> <div>Validation Accuracy -86.94 %</div> | <div>The accuracy of the model:98.46 %</div> <div>The accuracy of the testing:86.94 %</div> | | | | | | | | | | | | | | | | | | | | | | | | |