


Project Development Phase Model Performance Test

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|---------------|--|
| Date | 10 November 2022 |
| Team ID | PNT2022TMID48156 |
| Project Name | Project –AI powered nutrition analysis |
| 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 | Here we have built a model which is used for classifying the fruit depends on the different characteristics like colour, shape, texture etc. Here the user can capture the images of different fruits and then the image will be sent to the trained model. |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Accuracy | Training Accuracy – 85% Validation Accuracy -80% | <p>Confusion Matrix</p> <table><thead><tr><th></th><th>precision</th><th>recall</th><th>f1-score</th><th>support</th></tr></thead><tbody><tr><td>0</td><td>1.00</td><td>1.00</td><td>1.00</td><td>157</td></tr><tr><td>1</td><td>1.00</td><td>1.00</td><td>1.00</td><td>287</td></tr><tr><td>2</td><td>1.00</td><td>1.00</td><td>1.00</td><td>160</td></tr><tr><td>3</td><td>1.00</td><td>1.00</td><td>1.00</td><td>294</td></tr><tr><td>4</td><td>1.00</td><td>1.00</td><td>1.00</td><td>157</td></tr><tr><td>accuracy</td><td></td><td></td><td>1.00</td><td>1055</td></tr><tr><td>macro avg</td><td>1.00</td><td>1.00</td><td>1.00</td><td>1055</td></tr><tr><td>weighted avg</td><td>1.00</td><td>1.00</td><td>1.00</td><td>1055</td></tr></tbody></table> | | precision | recall | f1-score | support | 0 | 1.00 | 1.00 | 1.00 | 157 | 1 | 1.00 | 1.00 | 1.00 | 287 | 2 | 1.00 | 1.00 | 1.00 | 160 | 3 | 1.00 | 1.00 | 1.00 | 294 | 4 | 1.00 | 1.00 | 1.00 | 157 | accuracy | | | 1.00 | 1055 | macro avg | 1.00 | 1.00 | 1.00 | 1055 | weighted avg | 1.00 | 1.00 | 1.00 | 1055 |
| | precision | recall | f1-score | support | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1.00 | 1.00 | 1.00 | 157 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1.00 | 1.00 | 1.00 | 287 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1.00 | 1.00 | 1.00 | 160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1.00 | 1.00 | 1.00 | 294 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 1.00 | 1.00 | 1.00 | 157 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| accuracy | | | 1.00 | 1055 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| macro avg | 1.00 | 1.00 | 1.00 | 1055 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| weighted avg | 1.00 | 1.00 | 1.00 | 1055 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |