

File: BaseModel(CNN-MobileV2)

```
1 "C:\Program Files\Python313\python.exe" "C:\Users\WORK STATION\OneDrive\Desktop\Projects\Micro Credential Course\Hybrid-Vision-Transfer-Classifier\codes\BaselineModel(CNN-MobileV2).py"
2 2026-02-13 11:12:18.626513: I tensorflow/core/util/port.cc:153] oneDNN custom operations are on. You may see slightly different numerical results due to floating-point round-off errors from different computation orders. To turn them off, set the environment variable 'TF_ENABLE_ONEDNN_OPTS=0'.
3 2026-02-13 11:12:24.208543: I tensorflow/core/util/port.cc:153] oneDNN custom operations are on. You may see slightly different numerical results due to floating-point round-off errors from different computation orders. To turn them off, set the environment variable 'TF_ENABLE_ONEDNN_OPTS=0'.
4 2026-02-13 11:13:25.526012: I tensorflow/core/platform/cpu_feature_guard.cc:210] This TensorFlow binary is optimized to use available CPU instructions in performance-critical operations.
5 To enable the following instructions: SSE3 SSE4.1 SSE4.2 AVX AVX2 AVX512F AVX512_VNNI FMA, in other operations, rebuild TensorFlow with the appropriate compiler flags.
6 Epoch 1/10
7 100/100 ━━━━━━━━ 101s 826ms/step - accuracy: 0.8266 - loss: 0.5913
8 Epoch 2/10
9 100/100 ━━━━━━ 108s 1s/step - accuracy: 0.9756 - loss: 0.1365
10 Epoch 3/10
11 100/100 ━━━━━━ 100s 996ms/step - accuracy: 0.9872 - loss: 0.0803
12 Epoch 4/10
13 100/100 ━━━━ 94s 934ms/step - accuracy: 0.9937 - loss: 0.0551
14 Epoch 5/10
15 100/100 ━━━━ 132s 834ms/step - accuracy: 0.9975 - loss: 0.0408
16 Epoch 6/10
17 100/100 ━━━━ 83s 834ms/step - accuracy: 0.9984 - loss: 0.0316
18 Epoch 7/10
19 100/100 ━━━━ 79s 794ms/step - accuracy: 0.9987 - loss: 0.0253
20 Epoch 8/10
21 100/100 ━━━━ 81s 805ms/step - accuracy: 0.9991 - loss: 0.0208
22 Epoch 9/10
23 100/100 ━━━━ 79s 794ms/step - accuracy: 0.9991 - loss: 0.0174
24 Epoch 10/10
25 100/100 ━━━━ 79s 793ms/step - accuracy: 0.9994 - loss: 0.0147
26 25/25 ━━━━━━ 22s 786ms/step
27
28 --- PARENT BASIS METRICS ---
29 Accuracy: 99.12%
30 MCC: 0.9900
31 MSE: 0.0023
32 MAE: 0.0079
33
34 Classification Report (includes F1-Score):
   precision    recall  f1-score   support
35
36
37     Anthracnose  0.99    1.00    1.00      100
38  Bacterial Canker  1.00    0.99    0.99      100
39    Cutting Weevil  1.00    1.00    1.00      100
40      Die Back  1.00    1.00    1.00      100
41     Gail Midge  0.98    0.99    0.99      100
42       Healthy  1.00    0.97    0.98      100
43  Powdery Mildew  0.98    1.00    0.99      100
44    Sooty Mould  0.98    0.98    0.98      100
45
46    accuracy  0.99    0.99    0.99      800
47    macro avg  0.99    0.99    0.99      800
48  weighted avg  0.99    0.99    0.99      800
49
50 WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
51
52 Process finished with exit code 0
53
```