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1 C:\Program Files\Python313\python.exe" "C:\Users\WORK STATION\OneDrive\Desktop\Projects\Micro Credential Course\Hybrid-Vision-Transfer-Classifer\codes\BaseModel\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 AVXS12F 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 ----- 100s 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: 0.9980
31 MSE: 0.0023
32 MAE: 0.0079
33
34 Classification Report (includes F1-Score):
35 precision recall f1-score support
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 Gall 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
```