```
"C:\Program Files\Python313\python.exe" "C:\Users\WORK STATION\OneDrive\Desktop\Projects\Micro Credential Course\SEM-1\BaseModel(CNN+MobileV2).py"
2026-01-12 16:37:06.596516: 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`.
2026-01-12 16:37:12.655667: 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`.
2026-01-12 16:37:58.993121: I tensorflow/core/platform/cpu_feature_guard.cc:210] This TensorFlow binary is optimized to use available CPU instructions in performance-critical operations.
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.
Epoch 1/10
100/100 ━━━━━━━━━━━━━━━━━━━━ 123s 943ms/step - accuracy: 0.8266 - loss: 0.5913
Epoch 2/10
100/100 ━━━━━━━━━━━━━━━━━━━━ 92s 920ms/step - accuracy: 0.9756 - loss: 0.1365
Epoch 3/10
100/100 ━━━━━━━━━━━━━━━━━━━━ 87s 869ms/step - accuracy: 0.9872 - loss: 0.0803
Epoch 4/10
100/100 ━━━━━━━━━━━━━━━━━━━━ 90s 896ms/step - accuracy: 0.9937 - loss: 0.0551
Epoch 5/10
100/100 ━━━━━━━━━━━━━━━━━━━━ 84s 835ms/step - accuracy: 0.9975 - loss: 0.0408
Epoch 6/10
100/100 ━━━━━━━━━━━━━━━━━━━━ 82s 815ms/step - accuracy: 0.9984 - loss: 0.0316
```

```
Epoch 7/10
100/100 ━━━━━━━━━━━━━━━━━━━━ 82s 822ms/step - accuracy: 0.9987 - loss: 0.0253
Epoch 8/10
100/100 ━━━━━━━━━━━━━━━━━━━━ 85s 850ms/step - accuracy: 0.9991 - loss: 0.0208
Epoch 9/10
100/100 ━━━━━━━━━━━━━━━━━━━━ 155s 982ms/step - accuracy: 0.9991 - loss: 0.0174
Epoch 10/10
100/100 ━━━━━━━━━━━━━━━━━━━━ 95s 955ms/step - accuracy: 0.9994 - loss: 0.0147
25/25 ━━━━━━━━━━━━━━━━━━━━ 35s 1s/step

--- PARENT BASIS METRICS ---
Accuracy: 99.12%
Mean Squared Error (MSE): 0.0023
Mean Absolute Error (MAE): 0.0079

Classification Report:
                    precision    recall  f1-score   support

     Anthracnose       0.99      1.00      1.00       100
Bacterial Canker       1.00      0.99      0.99       100
  Cutting Weevil       1.00      1.00      1.00       100
        Die Back       1.00      1.00      1.00       100
      Gall Midge       0.98      0.99      0.99       100
         Healthy       1.00      0.97      0.98       100
  Powdery Mildew       0.98      1.00      0.99       100
     Sooty Mould       0.98      0.98      0.98       100

        accuracy                           0.99
```

```
45          800
46          macro avg       0.99      0.99      0.99
            800
47       weighted avg       0.99      0.99      0.99
            800
48
49 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')`.
50
51 Process finished with exit code 0
52
```