```
1 C:\Users\User\PycharmProjects\OpenCV1\.venv\Scripts\
  python.exe C:\Users\User\PycharmProjects\OpenCV1\.
  venv\train.py
 2 2025-02-16 18:20:22.509360: 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 2025-02-16 18:20:23.205274: 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 Found 612 files belonging to 6 classes.
 5 2025-02-16 18:20:25.215598: I tensorflow/core/
  platform/cpu_feature_quard.cc:210] This TensorFlow
  binary is optimized to use available CPU instructions
   in performance-critical operations.
 6 To enable the following instructions: AVX2 AVX_VNNI
  FMA, in other operations, rebuild TensorFlow with the
   appropriate compiler flags.
 7 Epoch 1/100
              4s 233ms/step - accuracy: 0.
 8 2/2 ----
  1732 - loss: 2.6935
9 Epoch 2/100
3392 - loss: 1.7799
11 Epoch 3/100
12 2/2 ———
               2s 375ms/step - accuracy: 0.
  5296 - loss: 1.1827
13 Epoch 4/100
14 2/2 ----
                  2s 410ms/step - accuracy: 0.
  6601 - loss: 0.9197
15 Epoch 5/100
16 2/2 — 2s 389ms/step - accuracy: 0.
  6923 - loss: 0.8058
7317 - loss: 0.7013
```

```
7983 - loss: 0.5859
21 Epoch 8/100
22 2/2 — 2s 315ms/step - accuracy: 0.
 7887 - loss: 0.5436
23 Epoch 9/100
8320 - loss: 0.5090
25 Epoch 10/100
26 2/2 — 2s 341ms/step - accuracy: 0.
 8403 - loss: 0.4384
8420 - loss: 0.4076
29 Epoch 12/100
20 3/2 _____ 2s 319ms/step - accuracy: 0.
 8512 - loss: 0.3853
31 Epoch 13/100
32 2/2 ______ 2s 314ms/step - accuracy: 0.
 8753 - loss: 0.3710
33 Epoch 14/100
34 2/2 ______ 2s 349ms/step - accuracy: 0.
 8838 - loss: 0.3315
9017 - loss: 0.2883
8801 - loss: 0.2956
8940 - loss: 0.2804
9034 - loss: 0.2543
9247 - loss: 0.2473
45 Epoch 20/100
          2s 305ms/step - accuracy: 0.
46 2/2
```

```
46 9195 - loss: 0.2503
47 Epoch 21/100
9308 - loss: 0.2231
9389 - loss: 0.2097
9336 - loss: 0.2056
9336 - loss: 0.2028
9323 - loss: 0.2048
9469 - loss: 0.1627
9552 - loss: 0.1721
9410 - loss: 0.1824
63 Epoch 29/100
64 2/2 ______ 2s 325ms/step - accuracy: 0.
 9521 - loss: 0.1588
9439 - loss: 0.1567
67 Epoch 31/100
68 2/2 — 2s 356ms/step - accuracy: 0.
 9476 - loss: 0.1519
69 Epoch 32/100
70 2/2 ______ 2s 329ms/step - accuracy: 0.
 9528 - loss: 0.1450
9595 - loss: 0.1434
73 Epoch 34/100
```

```
.9574 - loss: 0.1381
.9617 - loss: 0.1301
77 Epoch 36/100
78 2/2 ______ 2s 326ms/step - accuracy: 0
  .9495 - loss: 0.1406
.9630 - loss: 0.1347
.9693 - loss: 0.1187
.9574 - loss: 0.1299
.9719 - loss: 0.1098
87 Epoch 41/100
88 2/2 ______ 2s 312ms/step - accuracy: 0
  .9689 - loss: 0.1113
.9891 - loss: 0.0941
91 Epoch 43/100
92 2/2 ______ 2s 308ms/step - accuracy: 0
  .9793 - loss: 0.0946
93 Epoch 44/100
94 2/2 ______ 2s 329ms/step - accuracy: 0
  .9769 - loss: 0.0938
.9776 - loss: 0.0944
.9793 - loss: 0.0893
99 Epoch 47/100
100 2/2 ______ 2s 327ms/step - accuracy: 0
  .9745 - loss: 0.0937
```

```
101 Epoch 48/100
102 2/2 — 2s 453ms/step - accuracy: 0
  .9750 - loss: 0.0951
.9832 - loss: 0.0911
.9826 - loss: 0.0809
107 Epoch 51/100
108 2/2 ______ 2s 429ms/step - accuracy: 0
  .9763 - loss: 0.0859
109 Epoch 52/100
110 2/2 ______ 2s 392ms/step - accuracy: 0
  .9798 - loss: 0.0911
.9913 - loss: 0.0694
113 Epoch 54/100
.9761 - loss: 0.0774
115 Epoch 55/100
116 2/2 ______ 2s 398ms/step - accuracy: 0
  .9891 - loss: 0.0679
.9896 - loss: 0.0580
.9793 - loss: 0.0735
121 Epoch 58/100
122 2/2 — 2s 418ms/step - accuracy: 0
  .9867 - loss: 0.0666
.9839 - loss: 0.0704
125 Epoch 60/100
126 2/2 ______ 2s 380ms/step - accuracy: 0
  .9930 - loss: 0.0645
127 Epoch 61/100
128 2/2 ______ 2s 354ms/step - accuracy: 0
```

```
128 .9878 - loss: 0.0696
129 Epoch 62/100
.9943 - loss: 0.0535
.9902 - loss: 0.0533
.9850 - loss: 0.0574
.9850 - loss: 0.0597
.9809 - loss: 0.0634
.9943 - loss: 0.0453
.9902 - loss: 0.0504
.9954 - loss: 0.0525
.9843 - loss: 0.0563
.9930 - loss: 0.0444
.9948 - loss: 0.0487
.9948 - loss: 0.0395
.9850 - loss: 0.0594
155 Epoch 75/100
```

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.9913 - loss: 0.0438
.9965 - loss: 0.0421
159 Epoch 77/100
160 2/2 ______ 2s 328ms/step - accuracy: 0
 .9885 - loss: 0.0508
161 Epoch 78/100
.9913 - loss: 0.0388
.9965 - loss: 0.0343
.9902 - loss: 0.0413
.9930 - loss: 0.0432
.9948 - loss: 0.0397
.9948 - loss: 0.0408
.9913 - loss: 0.0399
.9898 - loss: 0.0387
.9965 - loss: 0.0305
179 Epoch 87/100
180 2/2 — 2s 310ms/step - accuracy: 0
 .9919 - loss: 0.0447
.9948 - loss: 0.0336
```

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183 Epoch 89/100
.9954 - loss: 0.0326
.9896 - loss: 0.0413
187 Epoch 91/100
.9937 - loss: 0.0348
189 Epoch 92/100
.9835 - loss: 0.0507
.9965 - loss: 0.0360
.0000 - loss: 0.0300
195 Epoch 95/100
.9948 - loss: 0.0363
.9965 - loss: 0.0326
.9948 - loss: 0.0305
.9961 - loss: 0.0324
.9983 - loss: 0.0331
.9930 - loss: 0.0322
207 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.
```

207	<pre>save_model(model, 'my_model.keras')`.</pre>
200	000000 finger_count_mobilenetv2.h5
209	
210	Process finished with exit code 0
211	