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1 D:\DeepFake\pythonProject1\.venv\Scripts\python.exe D
  :\DeepFake\pythonProject1\Main\main.py
2 2025-09-11 22:14:12.114837: 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 2025-09-11 22:14:14.674134: 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 Using TensorFlow 2.19.0
5 Config: {
6   "model_name": "efficientnetb7",
7   "data_dir": "D:/DeepFake/pythonProject1/Frames/
  Celeb-df/Celeb-df 600 EX",
8   "epochs": 20,
9   "batch_size": 32,
10  "seed": 42,
11  "base_trainable_at": null,
12  "warmup_epochs": 3,
13  "learning_rate": 0.001,
14  "fine_tune_lr": 0.0001,
15  "use_class_weights": false,
16  "mixed_precision": false,
17  "output_dir": "D:/DeepFake/pythonProject1/Main/
  efficientnetb7"
18 }
19 Found 56902 images belonging to 2 classes.
20 Found 12197 images belonging to 2 classes.
21 Found 12195 images belonging to 2 classes.
22 2025-09-11 22:14:23.134957: I tensorflow/core/
  platform/cpu_feature_guard.cc:210] This TensorFlow
  binary is optimized to use available CPU instructions
  in performance-critical operations.
23 To enable the following instructions: SSE3 SSE4.1
  SSE4.2 AVX AVX2 AVX_VNNI FMA, in other operations,
  rebuild TensorFlow with the appropriate compiler
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23 flags.
24 D:\DeepFake\pythonProject1\.venv\Lib\site-packages\
keras\src\trainers\data_adapters\py_dataset_adapter.
py:121: UserWarning: Your `PyDataset` class should
call `super().__init__(**kwargs)` in its constructor
. `**kwargs` can include `workers`, `
use_multiprocessing`, `max_queue_size`. Do not pass
these arguments to `fit()`, as they will be ignored.
25     self._warn_if_super_not_called()
26 Epoch 1/3
27 1779/1779 _____ 0s 18s/step - accuracy
: 0.9015 - loss: 0.3237
28 Epoch 1: val_accuracy improved from -inf to 0.90407,
saving model to D:/DeepFake/pythonProject1/Main/
efficientnetb7\best_warmup.keras
29 1779/1779 _____ 39615s 22s/step -
accuracy: 0.9015 - loss: 0.3237 - val_accuracy: 0.
9041 - val_loss: 0.3165 - learning_rate: 0.0010
30 Epoch 2/3
31 1779/1779 _____ 0s 20s/step - accuracy
: 0.9036 - loss: 0.3128
32 Epoch 2: val_accuracy improved from 0.90407 to 0.
90481, saving model to D:/DeepFake/pythonProject1/
Main/efficientnetb7\best_warmup.keras
33 1779/1779 _____ 42281s 24s/step -
accuracy: 0.9036 - loss: 0.3128 - val_accuracy: 0.
9048 - val_loss: 0.3027 - learning_rate: 0.0010
34 Epoch 3/3
35 1779/1779 _____ 0s 19s/step - accuracy
: 0.9032 - loss: 0.3105
36 Epoch 3: val_accuracy did not improve from 0.90481
37 1779/1779 _____ 39843s 22s/step -
accuracy: 0.9032 - loss: 0.3105 - val_accuracy: 0.
9045 - val_loss: 0.2989 - learning_rate: 0.0010
38 Saved final model to: D:/DeepFake/pythonProject1/Main
/efficientnetb7\efficientnetb7.keras
39 Evaluating on test set...
40 382/382 _____ 6811s 18s/step -
accuracy: 0.6858 - loss: 0.7931
41 Test accuracy: 0.9050 | Test loss: 0.2991
42 382/382 _____ 7545s 20s/step

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43
44 Classification Report:
45
46                precision    recall  f1-score
47  support
48      Celeb-real          0.74      0.02      0.03
49      1172
48      Celeb-synthesis      0.91      1.00      0.95
49      11023
50
51      accuracy                                0.90
52      12195
52      macro avg          0.82      0.51      0.49
53      12195
53      weighted avg        0.89      0.90      0.86
54      12195
54
55 Confusion Matrix:
56 [[   20  1152]
57  [    7 11016]]
58
59 Process finished with exit code 0
60
```