```
D:\DeepFake\pythonProject1\.venv\Scripts\python.exe D:\DeepFake\pythonProject1\Main\no_aug.py
2025-10-07 23:09:44.227669: 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`.
2025-10-07 23:09:46.295905: 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`.
Using TensorFlow 2.19.0
Config: {
  "model_name": "mobilenetv3",
  "data_dir": "D:/DeepFake/pythonProject1/Frames/Celeb-df/Celeb-df 224 EX",
  "epochs": 20,
  "batch_size": 32,
  "seed": 42,
  "base_trainable_at": null,
  "warmup_epochs": 3,
  "learning_rate": 0.001,
  "fine_tune_lr": 0.0001,
  "use_class_weights": false,
  "mixed_precision": false,
  "output_dir": "D:/DeepFake/pythonProject1/Main/Celeb-df/mobilenetv3_no_aug1"
}
Found 56902 images belonging to 2 classes.
Found 12197 images belonging to 2 classes.
Found 12195 images belonging to 2 classes.
2025-10-07 23:09:59.282334: 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 AVX_VNNI FMA, in other operations, rebuild TensorFlow with the appropriate compiler
```

```
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 285ms/step -
   accuracy: 0.8971 - loss: 0.3510
28 Epoch 1: val_accuracy improved from -inf to 0.90178,
   saving model to D:/DeepFake/pythonProject1/Main/Celeb
   -df/mobilenetv3_no_aug1\best_warmup.keras
29 1779/1779 ━━━━━━━━━━━━━━━━━━━━ 628s 350ms/step -
   accuracy: 0.8971 - loss: 0.3510 - val_accuracy: 0.
   9018 - val_loss: 0.3112 - learning_rate: 0.0010
30 Epoch 2/3
31 1779/1779 ━━━━━━━━━━━━━━━━━━━━ 0s 294ms/step -
   accuracy: 0.9015 - loss: 0.3225
32 Epoch 2: val_accuracy improved from 0.90178 to 0.
   90416, saving model to D:/DeepFake/pythonProject1/
   Main/Celeb-df/mobilenetv3_no_aug1\best_warmup.keras
33 1779/1779 ━━━━━━━━━━━━━━━━━━━━ 634s 357ms/step -
   accuracy: 0.9015 - loss: 0.3225 - val_accuracy: 0.
   9042 - val_loss: 0.3085 - learning_rate: 0.0010
34 Epoch 3/3
35 1779/1779 ━━━━━━━━━━━━━━━━━━━━ 0s 292ms/step -
   accuracy: 0.9039 - loss: 0.3141
36 Epoch 3: val_accuracy improved from 0.90416 to 0.
   90432, saving model to D:/DeepFake/pythonProject1/
   Main/Celeb-df/mobilenetv3_no_aug1\best_warmup.keras
37 1779/1779 ━━━━━━━━━━━━━━━━━━━━ 628s 353ms/step -
   accuracy: 0.9039 - loss: 0.3141 - val_accuracy: 0.
   9043 - val_loss: 0.3027 - learning_rate: 0.0010
38 Saved final model to: D:/DeepFake/pythonProject1/Main
   /Celeb-df/mobilenetv3_no_aug1\efficientnetb7.keras
39 Evaluating on test set...
40 382/382 ━━━━━━━━━━━━━━━━━━━━ 115s 301ms/step -
   accuracy: 0.6826 - loss: 0.8110
```

```
Test accuracy: 0.8842 | Test loss: 0.3044
382/382 ━━━━━━━━━━━━━━━━━━━━ 116s 302ms/step
     Celeb-real  precision: 0.81  recall: 0.00  f1-score: 0.00  support: 1172.0
Celeb-synthesis  precision: 0.88  recall: 0.98  f1-score: 0.93  support: 11023.0
       accuracy: 0.88
      macro avg  precision: 0.85  recall: 0.48  f1-score: 0.46  support: 12195.0
   weighted avg  precision: 0.88  recall: 0.88  f1-score: 0.84  support: 12195.0
Confusion Matrix:
 [[    5  1167]
 [    1 11022]]

Process finished with exit code 0

```