```
D:\DeepFake\pythonProject1\.venv\Scripts\python.exe D:\DeepFake\pythonProject1\Main\no_aug.py
2025-10-08 11:40:42.448320: 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`.
2025-10-08 11:40:44.935656: 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": "resnet50",
  "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/resnet50_no_aug"
}
Found 56902 images belonging to 2 classes.
Found 12197 images belonging to 2 classes.
Found 12195 images belonging to 2 classes.
2025-10-08 11:40:54.693424: 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 830ms/step -
   accuracy: 0.8903 - loss: 0.3738
28 Epoch 1: val_accuracy improved from -inf to 0.90391,
   saving model to D:/DeepFake/pythonProject1/Main/Celeb
   -df/resnet50_no_aug\best_warmup.keras
29 1779/1779 ━━━━━━━━━━━━━━━━━━━━ 1794s 1s/step -
   accuracy: 0.8903 - loss: 0.3737 - val_accuracy: 0.
   9039 - val_loss: 0.3365 - learning_rate: 0.0010
30 Epoch 2/3
31 1779/1779 ━━━━━━━━━━━━━━━━━━━━ 0s 980ms/step -
   accuracy: 0.8982 - loss: 0.3384
32 Epoch 2: val_accuracy improved from 0.90391 to 0.
   90448, saving model to D:/DeepFake/pythonProject1/
   Main/Celeb-df/resnet50_no_aug\best_warmup.keras
33 1779/1779 ━━━━━━━━━━━━━━━━━━━━ 2088s 1s/step -
   accuracy: 0.8982 - loss: 0.3384 - val_accuracy: 0.
   9045 - val_loss: 0.3020 - learning_rate: 0.0010
34 Epoch 3/3
35 1779/1779 ━━━━━━━━━━━━━━━━━━━━ 0s 2s/step - accuracy
   : 0.9006 - loss: 0.3286
36 Epoch 3: val_accuracy improved from 0.90448 to 0.
   90481, saving model to D:/DeepFake/pythonProject1/
   Main/Celeb-df/resnet50_no_aug\best_warmup.keras
37 1779/1779 ━━━━━━━━━━━━━━━━━━━━ 4481s 3s/step -
   accuracy: 0.9006 - loss: 0.3286 - val_accuracy: 0.
   9048 - val_loss: 0.3302 - learning_rate: 0.0010
38 Saved final model to: D:/DeepFake/pythonProject1/Main
   /Celeb-df/resnet50_no_aug\resnet50.keras
39 Evaluating on test set...
40 382/382 ━━━━━━━━━━━━━━━━━━━━ 451s 1s/step - accuracy
   : 0.6852 - loss: 1.0098
```

```
Test accuracy: 0.8851 | Test loss: 0.3341
382/382 ━━━━━━━━━━━━━━━━━━━━ 401s 1s/step
     Celeb-real  precision: 0.84  recall: 0.00  f1-score: 0.01  support: 1172.0
Celeb-synthesis  precision: 0.89  recall: 0.98  f1-score: 0.93  support: 11023.0
       accuracy: 0.89
      macro avg  precision: 0.86  recall: 0.49  f1-score: 0.47  support: 12195.0
   weighted avg  precision: 0.88  recall: 0.89  f1-score: 0.84  support: 12195.0
Confusion Matrix:
 [[   18  1154]
 [    3 11020]]

Process finished with exit code 0

```