```
D:\DeepFake\pythonProject1\.venv\Scripts\python.exe D:\DeepFake\pythonProject1\Main\main.py
2025-09-18 17:33:24.481395: 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`.
2025-09-18 17:33:27.178602: 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/FF/FF 224",
  "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/FF/mobilenetv3"
}
Found 60796 images belonging to 2 classes.
Found 13032 images belonging to 2 classes.
Found 13030 images belonging to 2 classes.
2025-09-18 17:33:36.799933: 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 1900/1900 ━━━━━━━━━━━━━━━━━━━━ 0s 329ms/step -
   accuracy: 0.8641 - loss: 0.4214
28 Epoch 1: val_accuracy improved from -inf to 0.87845,
   saving model to D:/DeepFake/pythonProject1/Main/FF/
   mobilenetv3\best_warmup.keras
29 1900/1900 ━━━━━━━━━━━━━━━━━━━━ 701s 367ms/step -
   accuracy: 0.8641 - loss: 0.4214 - val_accuracy: 0.
   8785 - val_loss: 0.3679 - learning_rate: 0.0010
30 Epoch 2/3
31 1900/1900 ━━━━━━━━━━━━━━━━━━━━ 0s 526ms/step -
   accuracy: 0.8768 - loss: 0.3819
32 Epoch 2: val_accuracy did not improve from 0.87845
33 1900/1900 ━━━━━━━━━━━━━━━━━━━━ 1077s 567ms/step -
   accuracy: 0.8768 - loss: 0.3819 - val_accuracy: 0.
   8768 - val_loss: 0.3656 - learning_rate: 0.0010
34 Epoch 3/3
35 1900/1900 ━━━━━━━━━━━━━━━━━━━━ 0s 433ms/step -
   accuracy: 0.8761 - loss: 0.3799
36 Epoch 3: val_accuracy did not improve from 0.87845
37 1900/1900 ━━━━━━━━━━━━━━━━━━━━ 896s 472ms/step -
   accuracy: 0.8761 - loss: 0.3799 - val_accuracy: 0.
   8768 - val_loss: 0.3685 - learning_rate: 0.0010
38 Saved final model to: D:/DeepFake/pythonProject1/Main
   /FF/mobilenetv3\mobilenetv3.keras
39 Evaluating on test set...
40 408/408 ━━━━━━━━━━━━━━━━━━━━ 76s 186ms/step -
   accuracy: 0.9914 - loss: 0.1663
41 Test accuracy: 0.8794 | Test loss: 0.3700
42 408/408 ━━━━━━━━━━━━━━━━━━━━ 79s 191ms/step
43
44 Classification Report:
```

```
45
46                precision    recall  f1-score   support
47
48             df       0.88      1.00      0.94     11428
49           real       0.83      0.02      0.05      1602
50
51       accuracy                           0.88     13030
52      macro avg       0.85      0.51      0.49     13030
53  weighted avg       0.87      0.88      0.83     13030
54
55  Confusion Matrix:
56   [[11420     8]
57   [ 1563    39]]
58
59  Process finished with exit code 0
60
```