/Users/andrey/miniforge3/bin/python /Users/andrey/python/oleg-semenovich/
main.py
Found 21544 files belonging to 2 classes.
Using 19390 files for training.
Found 21544 files belonging to 2 classes.
Using 2154 files for validation.
Found 5069 files belonging to 2 classes.
Model: "sequential_1"

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 220, 220, 4)	304
max_pooling2d (MaxPooling2D)	(None, 110, 110, 4)	0
conv2d_1 (Conv2D)	(None, 106, 106, 8)	808
max_pooling2d_1 (MaxPooling2D)	(None, 53, 53, 8)	0
conv2d_2 (Conv2D)	(None, 49, 49, 16)	3,216
max_pooling2d_2 (MaxPooling2D)	(None, 24, 24, 16)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 64)	589,888
dense_1 (Dense)	(None, 32)	2,080
dense_2 (Dense)	(None, 2)	66

```
 Total params: 596,362 (2.27 MB)
 Trainable params: 596,362 (2.27 MB)
 Non-trainable params: 0 (0.00 B)
Epoch 1/10
152/152 ━━━━━━━━━━━━━━━━━━━━ 160s 1s/step - accuracy: 0.6488 - loss: 0.
6302 - precision: 0.6488 - val_accuracy: 0.6829 - val_loss: 0.5864 -
val_precision: 0.6829 - learning_rate: 0.1000
Epoch 2/10
152/152 ━━━━━━━━━━━━━━━━━━━━ 158s 1s/step - accuracy: 0.6957 - loss: 0.
5867 - precision: 0.6957 - val_accuracy: 0.7061 - val_loss: 0.5755 -
val_precision: 0.7061 - learning_rate: 0.1000
Epoch 3/10
152/152 ━━━━━━━━━━━━━━━━━━━━ 160s 1s/step - accuracy: 0.7189 - loss: 0.
5638 - precision: 0.7189 - val_accuracy: 0.7145 - val_loss: 0.5712 -
val_precision: 0.7145 - learning_rate: 0.1000
Epoch 4/10
152/152 ━━━━━━━━━━━━━━━━━━━━ 163s 1s/step - accuracy: 0.7234 - loss: 0.
5529 - precision: 0.7234 - val_accuracy: 0.7210 - val_loss: 0.5622 -
val_precision: 0.7210 - learning_rate: 0.1000
Epoch 5/10
152/152 ━━━━━━━━━━━━━━━━━━━━ 164s 1s/step - accuracy: 0.7234 - loss: 0.
5549 - precision: 0.7234 - val_accuracy: 0.7247 - val_loss: 0.5699 -
val_precision: 0.7247 - learning_rate: 0.1000
Epoch 6/10
152/152 ━━━━━━━━━━━━━━━━━━━━ 157s 1s/step - accuracy: 0.7336 - loss: 0.
5367 - precision: 0.7336 - val_accuracy: 0.7117 - val_loss: 0.5583 -
val_precision: 0.7117 - learning_rate: 0.1000
Epoch 7/10
152/152 ━━━━━━━━━━━━━━━━━━━━ 157s 1s/step - accuracy: 0.7557 - loss: 0.
5002 - precision: 0.7557 - val_accuracy: 0.6801 - val_loss: 0.5960 -
val_precision: 0.6801 - learning_rate: 0.1000
Epoch 8/10
152/152 ━━━━━━━━━━━━━━━━━━━━ 158s 1s/step - accuracy: 0.7231 - loss: 0.
5411 - precision: 0.7231 - val_accuracy: 0.7075 - val_loss: 0.5853 -
val_precision: 0.7075 - learning_rate: 0.1000
Epoch 9/10
152/152 ━━━━━━━━━━━━━━━━━━━━ 161s 1s/step - accuracy: 0.7693 - loss: 0.
4784 - precision: 0.7693 - val_accuracy: 0.6968 - val_loss: 0.5790 -
val_precision: 0.6968 - learning_rate: 0.1000
Epoch 10/10
152/152 ━━━━━━━━━━━━━━━━━━━━ 163s 1s/step - accuracy: 0.7859 - loss: 0.
4504 - precision: 0.7859 - val_accuracy: 0.7057 - val_loss: 0.7792 -
val_precision: 0.7057 - learning_rate: 0.1000
40/40 ━━━━━━━━━━━━━━━━━━━━ 14s 328ms/step - accuracy: 0.7185 - loss: 0.
5542 - precision: 0.7185
Test precision: 0.7161175608634949
Test accuracy: 0.7161175608634949

Process finished with exit code 0
```