

Results:

1.

Test accuracy = 94.75%

Model: "sequential_1"

Layer (type)	Output Shape	Param #
conv2d_1 (Conv2D)	(None, 60, 60, 256)	2560
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 256)	0
conv2d_2 (Conv2D)	(None, 30, 30, 256)	590080
max_pooling2d_2 (MaxPooling2D)	(None, 15, 15, 256)	0
conv2d_3 (Conv2D)	(None, 15, 15, 256)	590080
max_pooling2d_3 (MaxPooling2D)	(None, 7, 7, 256)	0
flatten_1 (Flatten)	(None, 12544)	0
dense_1 (Dense)	(None, 64)	802880
dense_2 (Dense)	(None, 1)	65

Total params: 1,985,665

Trainable params: 1,985,665

Non-trainable params: 0

None

Train on 320 samples, validate on 80 samples

Epoch 1/20

2.

Test accuracy = 95.75%

Model: "sequential_1"

Layer (type)	Output Shape	Param #
conv2d_1 (Conv2D)	(None, 60, 60, 256)	2560
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 256)	0
conv2d_2 (Conv2D)	(None, 30, 30, 256)	590080
max_pooling2d_2 (MaxPooling2D)	(None, 15, 15, 256)	0
conv2d_3 (Conv2D)	(None, 15, 15, 256)	590080
max_pooling2d_3 (MaxPooling2D)	(None, 7, 7, 256)	0
flatten_1 (Flatten)	(None, 12544)	0

dense_1 (Dense)	(None, 64)	802880
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dense_2 (Dense)	(None, 1)	65
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Total params: 1,985,665
Trainable params: 1,985,665
Non-trainable params: 0

None
Train on 320 samples, validate on 80 samples
Epoch 1/20

3.
Test accuracy = 94.00%

Model: "sequential_1"

Layer (type)	Output Shape	Param #
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conv2d_1 (Conv2D)	(None, 60, 60, 256)	2560
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max_pooling2d_1 (MaxPooling2)	(None, 30, 30, 256)	0
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conv2d_2 (Conv2D)	(None, 30, 30, 256)	590080
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max_pooling2d_2 (MaxPooling2)	(None, 15, 15, 256)	0
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conv2d_3 (Conv2D)	(None, 15, 15, 256)	590080
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max_pooling2d_3 (MaxPooling2)	(None, 7, 7, 256)	0
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flatten_1 (Flatten)	(None, 12544)	0
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dense_1 (Dense)	(None, 64)	802880
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dense_2 (Dense)	(None, 1)	65
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Total params: 1,985,665
Trainable params: 1,985,665
Non-trainable params: 0

None
Train on 300 samples, validate on 100 samples
Epoch 1/20

4.
Test accuracy = 95.50%

Model: "sequential_1"

Layer (type)	Output Shape	Param #
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conv2d_1 (Conv2D)	(None, 60, 60, 256)	2560
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max_pooling2d_1	(MaxPooling2 (None, 30, 30, 256)	0
conv2d_2	(Conv2D) (None, 30, 30, 256)	590080
max_pooling2d_2	(MaxPooling2 (None, 15, 15, 256)	0
conv2d_3	(Conv2D) (None, 15, 15, 256)	590080
max_pooling2d_3	(MaxPooling2 (None, 7, 7, 256)	0
flatten_1	(Flatten) (None, 12544)	0
dense_1	(Dense) (None, 64)	802880
dense_2	(Dense) (None, 1)	65

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 Total params: 1,985,665
 Trainable params: 1,985,665
 Non-trainable params: 0

None
 Train on 150 samples, validate on 50 samples
 Epoch 1/20