

Tensorflow ile Image Classification Modeli Oluşturmak

Model

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1048
Found 4200 files belonging to 6 classes.
Found 1048 files belonging to 6 classes.
['cr', 'in', 'pa', 'ps', 'rs', 'sc']
Model: "sequential_3"

```

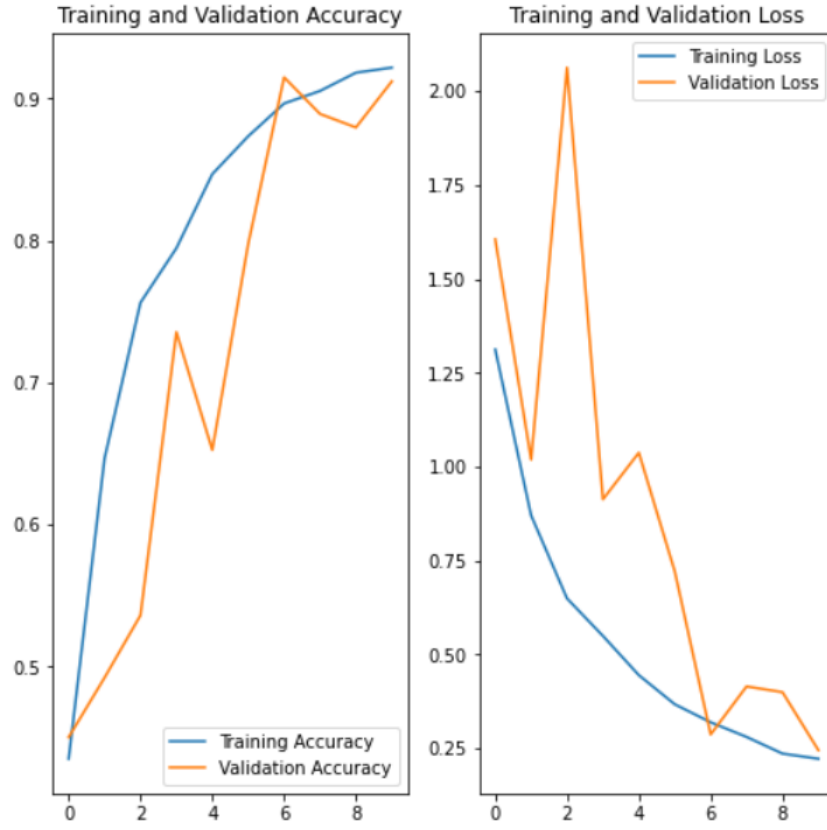
Layer (type)	Output Shape	Param #
sequential_2 (Sequential)	(None, 64, 64, 3)	0
rescaling_1 (Rescaling)	(None, 64, 64, 3)	0
conv2d_2 (Conv2D)	(None, 64, 64, 16)	448
max_pooling2d_2 (MaxPooling2D)	(None, 32, 32, 16)	0
conv2d_3 (Conv2D)	(None, 32, 32, 32)	4640
max_pooling2d_3 (MaxPooling2D)	(None, 16, 16, 32)	0
dropout_1 (Dropout)	(None, 16, 16, 32)	0
flatten_1 (Flatten)	(None, 8192)	0
dense_2 (Dense)	(None, 128)	1048704
dense_3 (Dense)	(None, 6)	774
Total params: 1,054,566		
Trainable params: 1,054,566		
Non-trainable params: 0		

Training

```

Epoch 1/10
525/525 [=====] - 32s 51ms/step - loss: 1.3122 - accuracy: 0.4352 - val_loss: 1.6055 - val_accuracy: 0.4504
Epoch 2/10
525/525 [=====] - 26s 49ms/step - loss: 0.8703 - accuracy: 0.6469 - val_loss: 1.0189 - val_accuracy: 0.4924
Epoch 3/10
525/525 [=====] - 27s 51ms/step - loss: 0.6491 - accuracy: 0.7564 - val_loss: 2.0628 - val_accuracy: 0.5363
Epoch 4/10
525/525 [=====] - 26s 49ms/step - loss: 0.5493 - accuracy: 0.7948 - val_loss: 0.9131 - val_accuracy: 0.7357
Epoch 5/10
525/525 [=====] - 26s 49ms/step - loss: 0.4448 - accuracy: 0.8469 - val_loss: 1.0373 - val_accuracy: 0.6527
Epoch 6/10
525/525 [=====] - 25s 48ms/step - loss: 0.3673 - accuracy: 0.8736 - val_loss: 0.7214 - val_accuracy: 0.7977
Epoch 7/10
525/525 [=====] - 25s 48ms/step - loss: 0.3194 - accuracy: 0.8967 - val_loss: 0.2869 - val_accuracy: 0.9151
Epoch 8/10
525/525 [=====] - 26s 49ms/step - loss: 0.2804 - accuracy: 0.9055 - val_loss: 0.4148 - val_accuracy: 0.8893
Epoch 9/10
525/525 [=====] - 25s 48ms/step - loss: 0.2359 - accuracy: 0.9183 - val_loss: 0.3996 - val_accuracy: 0.8798
Epoch 10/10
525/525 [=====] - 26s 49ms/step - loss: 0.2223 - accuracy: 0.9219 - val_loss: 0.2452 - val_accuracy: 0.9122

```



INFO:tensorflow:Assets written to: model artifact/assets

Sonuç (Yeni veriler)



1044

Found 1044 files belonging to 6 classes.

131/131 [=====] - 3s 19ms/step - loss: 0.1516 - accuracy: 0.9473