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Import tensorflow as tf

From tensorflow.keras.preprocessing.image import ImageDataGenerator

Train_datagen = ImageDataGenerator( rescale =1./255, zoom_range = 0.2, horizontal_flip = True)

Training_set = train_datagen.flow_from_directory('link to dataset directory',target_size = (64, 64),
Batch_size = 32,class_mode = 'binary')

Test_datagen = ImageDataGenerator(rescale = 1./255)

Test_set = test_datagen.flow_from_directory('dataset/test_set',
Target_size = (64, 64),batch_size = 32, class_mode = 'binary')

Cnn = tf.keras.models.Sequential()

Cnn.add(tf.keras.layers.Conv2D(filters=5, kernel_size=3, activation='relu', input_shape=[64, 64, 3]))

Cnn.add(tf.keras.layers.MaxPool2D(pool_size=2, strides=2))

Cnn.add(tf.keras.layers.Conv2D(filters=32, kernel_size=3, activation='relu'))

Cnn.add(tf.keras.layers.MaxPool2D(pool_size=2, strides=2))

Cnn.add(tf.keras.layers.Flatten())

Cnn.add(tf.keras.layers.Dense(units=128, activation='relu'))

Cnn.add(tf.keras.layers.Dense(units=1, activation='relu'))

Cnn.compile(optimizer = 'adam', loss = 'binary_crossentropy', metrics = ['accuracy'])

Cnn.fit(x = training_set, validation_data = test_set, epochs = 5)
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