```
import tensorflow as tf
from tensorflow.keras.preprocessing.image import ImageDataGenerator
Augmentation
data_aug = ImageDataGenerator(
   rescale =1./255,
   rotation_range=20,
   width shift range=0.2,
   height_shift_range=0.2,
   shear_range=0.2,
   zoom_range=0.2,
   horizontal_flip=True,
   fill_mode='nearest'
train_data=data_aug.flow_from_directory('/content/drive/MyDrive/animals',target_size=(128,128),batch_size=32,class_mode='categorical')
Found 2362 images belonging to 90 classes.
CNN
model=tf.keras.models.Sequential([tf.keras.layers.Input(shape=(128,128,3)),
                          tf.keras.layers.Conv2D(64,(3,3),activation='relu'),
                          tf.keras.layers.MaxPooling2D((2,2)),
                          tf.keras.layers.Flatten(),
                          tf.keras.layers.Dense(64,activation='relu'),
                          tf.keras.layers.Dense(32,activation='relu'),
                          tf.keras.layers.Dense(90,activation='softmax')])
model.compile(optimizer='adam',loss='categorical_crossentropy',metrics=['accuracy'])
model.fit(train_data,epochs=4)
    Epoch 1/4
    74/74 [===
             Epoch 2/4
    Epoch 3/4
    Epoch 4/4
    74/74 [==========] - 130s 2s/step - loss: 3.5738 - accuracy: 0.0953
    <keras.callbacks.History at 0x7ff70c0a6730>
val_data=ImageDataGenerator(rescale=1./255)
val_generator=val_data.flow_from_directory('/content/drive/MyDrive/animals',target_size=(128,128),batch_size=32,class_mode='categorical')
    Found 2362 images belonging to 90 classes.
model.evaluate(val_generator)
    [3.4762630462646484, 0.1189669743180275]
```