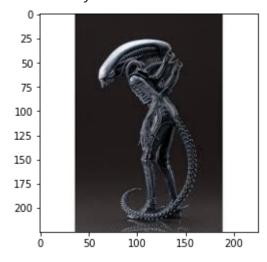
```
#Membuat file goggle drive
from google.colab import drive
drive.mount('/content/gdrive')
     Mounted at /content/gdrive
#Untuk menghubungkan kaggle ke goggle drive
import os
os.environ['KAGGLE CONFIG DIR']='/content/JST Ipandri'
#Untuk mamasukan Folder yang digunakan digoggle drive
%cd /content/JST_Ipandri
     /content/JST_Ipandri
#Untuk Melihat isi Dalam Folder
!1s
     kaggle.json
#Untuk Mendownload datasets
!kaggle datasets download -d pmigdal/alien-vs-predator-images
     Warning: Your Kaggle API key is readable by other users on this system! To fix this, yo
     Downloading alien-vs-predator-images.zip to /content/JST Ipandri
      35% 5.00M/14.1M [00:00<00:00, 31.0MB/s]
     100% 14.1M/14.1M [00:00<00:00, 56.2MB/s]
#Untuk MengEkstrak Gambar
!unzip alien-vs-predator-images.zip
import numpy as np
import pandas as pd
# File data input tersedia di direktori "../input/"..
# Misalnya, menjalankan ini (dengan mengklik run atau menekan Shift+Enter) akan menampilkan s
import os
for dirname, _, filenames in os.walk('/content/JST_Ipandri'):
    for filename in filenames:
        print(os.path.join(dirname, filename))
#Menentukan Library
from keras.models import Sequential
from keras.layers import Convolution2D
```

```
Trom keras.layers import maxroolingzu
from keras.layers import Flatten
from keras.layers import Dense
classifier = Sequential()
classifier.add(Convolution2D(filters = 32, kernel size=(3,3), data format= "channels last", j
classifier.add(MaxPooling2D(pool size = (2,2)))
# Menambahkan lapisan konvolusi kedua
classifier.add(Convolution2D(32, (3, 3), activation = 'relu'))
classifier.add(MaxPooling2D(pool size = (2, 2)))
classifier.add(Flatten())
classifier.add(Dense(units = 128, activation = 'relu'))
classifier.add(Dense(units = 1, activation = 'sigmoid'))
classifier.compile(optimizer = 'adam', loss = 'binary crossentropy', metrics = ['accuracy'])
#Untuk Memproses gambar
from keras.preprocessing.image import ImageDataGenerator
train datagen = ImageDataGenerator(
        rescale=1./255,
        shear range=0.2,
        zoom_range=0.2,
        horizontal flip=True)
test datagen = ImageDataGenerator(rescale=1./255)
#Pelatihan dataset gambar
training_set = train_datagen.flow_from_directory('/content/JST_Ipandri/alien_vs_predator_thum
     Found 694 images belonging to 2 classes.
#Melakukan Percobaan dataset gambar
test_set = test_datagen.flow_from_directory(
        '/content/JST_Ipandri/alien_vs_predator_thumbnails/data/validation',
        target size=(64, 64),
        batch size=32,
        class mode='binary')
     Found 200 images belonging to 2 classes.
```

#Menggolongkan dataset training dan dataset validation https://colab.research.google.com/drive/1NSFy3OwD8aTptLJIJLJ7VwJqZUKiMkXp#scrollTo=EqJuthe1R2IW&printMode=true

```
classifier.fit generator(
        training_set,
        steps per epoch=694,
        epochs=30,
        validation data=test set,
        validation_steps=200)
#Memproses data gambar alien
from matplotlib import pyplot as plt
import cv2
S = 64
directory = os.listdir("/content/JST_Ipandri/data/validation/alien")
print(directory[3])
imgAlien = cv2.imread("/content/JST_Ipandri/data/validation/alien/" + directory[3])
plt.imshow(imgAlien)
imgAlien = cv2.resize(imgAlien, (S,S))
imgAlien = imgAlien.reshape(1,S,S,3)
pred = classifier.predict(imgAlien)
print("Probability that it is a alien = ", "%.2f" % (1-pred))
```

80.jpg
Probability that it is a alien = 0.00



```
#Memproses Data gambar Predator
from matplotlib import pyplot as plt
import cv2
S = 64

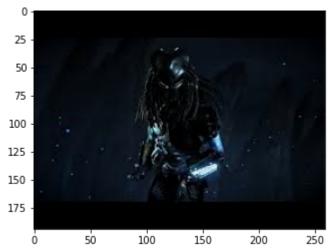
directory = os.listdir("/content/JST_Ipandri/data/validation/predator")
print(directory[20])

imgAlien = cv2.imread("/content/JST_Ipandri/data/validation/predator/" + directory[20])
plt.imshow(imgAlien)
```

```
imgAlien = cv2.resize(imgAlien, (S,S))
imgAlien = imgAlien.reshape(1,S,S,3)

pred = classifier.predict(imgAlien)
print("Probability that it is a alien = ", "%.2f" % (1-pred))
```

48.jpg Probability that it is a alien = 0.00



×