Python Code:

```
import re
import numpy as np
import os
from flask import Flask, app,request,render_template
import sys
from flask import Flask, request, render_template, redirect, url_for
import argparse
from tensorflow import keras
from PIL import Image
from timeit import default_timer as timer
import test
import pandas as pd
import numpy as np
import random
```

```
def get_parent_dir(n=1):
        returns the n-th parent dicrectory of the current
    working directory
    current_path = os.path.dirname(os.path.abspath(__file__))
    for k in range(n):
        current_path = os.path.dirname(current_path)
    return current path
src path =r'C:\Users\HP\Desktop\Skin Disease-Flask\2 Training\src'
print(src_path)
utils_path = r'C:\Users\HP\Desktop\Skin Disease-Flask\Utils'
print(utils_path)
sys.path.append(src_path)
sys.path.append(utils_path)
import argparse
from keras_yolo3.yolo import YOLO, detect_video
from PIL import Image
from timeit import default_timer as timer from utils import load_extractor_model, load_features, parse_input, detect_object
import test
import utils
import pandas as pd
import numpy as np
from Get_File_Paths import GetFileList
import random
os.environ["TF CPP MIN LOG LEVEL"] = "3"
data_folder = os.path.join(get_parent_dir(n=1), "Skin Disease-Flask", "Data")
                                                                                      Ac
image_folder = os.path.join(data_folder, "Source_Images")
```

```
os.environ["TF_CPP_MIN_LOG_LEVEL"] = "3"

# Set up folder names for default values
data_folder = os.path.join(get_parent_dir(n=1), "Skin Disease-Flask", "Data")
image_folder = os.path.join(data_folder, "Source_Images")
image_test_folder = os.path.join(image_folder, "Test_Images")
detection_results_folder = os.path.join(image_folder, "Test_Image_Detection_Results")
detection_results_file = os.path.join(detection_results_folder, "Detection_Results.csv")
model_folder = os.path.join(data_folder, "Model_Weights")
model_weights = os.path.join(model_folder, "trained_weights_final.h5")
model_classes = os.path.join(model_folder, "data_classes.txt")
anchors_path = os.path.join(src_path, "keras_yolo3", "model_data", "yolo_anchors.txt")
FLAGS = None
```

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parser.add_argument(
        "--file_types",
"--names-list",
nargs="*",
default=[],
help="Specify list of file types to include. Default is --file_types .jpg .jpeg .png .mp4",
   parser.add_argument(
"--yolo_model",
        type=str,
type=str,
dest="model_path",
default-model_weights,
help="Path to pre-trained weight files. Default is " + model_weights,
   parser.add_argument(
           --anchors
        type=str,
dest="anchors_path",
default-anchors_path,
help="Path to YOLO anchors. Default is " + anchors_path,
   parser.add_argument(
           --classes".
         type-str,
dest="classes_path",
        default-model_classes,
help="Path to YOLO class specifications. Default is " + model_classes,
parser.add_argument(
     "--confidence",
type=float,
dest="score",
     default=0.25,
     help="Threshold for YOLO object confidence score to show predictions. Default is 0.25.",
parser.add_argument(
       '--box_file",
     type=str,
dest="box",
     default=detection_results_file,
help="File to save bounding box results to. Default is "
+ detection_results_file,
parser.add_argument(
   "--postfix",
     type=str,
dest="postfix",
default="_disease",
help='Specify the postfix for images with bounding boxes. Default is "_disease"',
FLAGS = parser.parse_args()
save_img = not FLAGS.no_save_img
file_types = FLAGS.file_types
#print(input_path)
if file_types:
                                                                                                                                Activ
     input_paths = GetFileList(FLAGS.input_path, endings=file_types)
print(input_paths)
```

```
# Make a dataframe for the prediction outputs
out_df = pd.DataFrame(
     columns=[
          "image",
          image ,
"image_path",
"xmin",
"ymin",
          "xmax",
          "ymax",
"label",
          "confidence",
          "x_size",
"y_size",
# labels to draw on images
class_file = open(FLAGS.classes_path, "r")
input_labels = [line.rstrip("\n") for line in class_file.readlines()]
print("Found {} input labels: {} ...".format(len(input_labels), input_labels))
if input_image_paths:
    [os.path.basename(f) for f in input_image_paths[:5]],
     start = timer()
     text_out =
     # This is for images
     for i, img_path in enumerate(input_image_paths):
                                                                                              Act
          print(img path)
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enumerate(input_image_paths):
print(img_path)
prediction, image, lat, lon= detect_object(
      yolo,
      img_path,
save_img=save_img,
save_img_path=FLAGS.output,
postfix=FLAGS.postfix,
print(lat,lon)
y_size, x_size, _ = np.array(image).
for single_prediction in prediction:
   out_df = out_df.append(
                             = np.array(image).shape
             df = out_df.append(
pd.DataFrame(
                                 os.path.basename(img_path.rstrip("\n")),
img_path.rstrip("\n"),
                           + single_prediction
+ [x_size, y_size]
                   ],
columns=[
"image",
"image_path",
"in",
                           xmin",
"ymin"
                           "xmax",
                           "ymax",
"label",
                           "confidence",
                           "x_size",
"y_size",
                   1.
```

```
end = timer()
    print(
         "Processed {} images in {:.1f}sec - {:.1f}FPS".format(
             len(input_image_paths),
             end - start,
             len(input_image_paths) / (end - start),
    )
    out df.to csv(FLAGS.box, index=False)
if input_video_paths:
    print(
         "Found {} input videos: {} ...".format(
             len(input_video_paths),
[os.path.basename(f) for f in input_video_paths[:5]],
         )
    start = timer()
    for i, vid_path in enumerate(input_video_paths):
        output_path = os.path.join(
            FLAGS.output,
             os.path.basename(vid_path).replace(".", FLAGS.postfix + "."),
        detect_video(yolo, vid_path, output_path=output_path)
    end = timer()
    print(
         "Processed {} videos in {:.1f}sec".format(
             len(input_video_paths), end - start
yolo.close_session()
return render template('prediction.html')
```