```
lensorflow Daployment.
Serving Tensorflow model with TF Serving.
   @ Prepare your model:
      15 Suppose you have an Arctauc model with the input tensors named
                 input_1. (None x 170x170 x 3) .> Irrage atmorsions.
                  imput_2. (None x 93742). -> Number of cluses.
      Ly The model needs to be soured in It SovedHodel format:
            >>> arcface.load_weights ("model_weights.hdf5")
            >>> arcface. Summary () # To see the input tensor' names.
>>> # To see the input tensor' names.
>>> # Theras models . save_model ( arcface, "(abs_path>/model_name/<#ersion #>")
                                                        We Model path:
                  ) saves models 2
                                                            + 1. Abs path to model directory
                 in If Saved Hodel format. model.
                                                            +2. Model dir name.
                                                              5. Version number.
    4 Example:
    ) Heras models care model (arcfan, "Thurse/hier/arcface/1")
                                               6 /home/him
                                                    -> arctail
                                                                >losots
                                                                > saved_model.plo
                                                                 al landles.
   (2) Installing docker if serving.
      2.1. Installing Docker.
          47 Follow docs.docker.com/engine/install/ubuntu.
      2.2. Installing If serving.
   Serving the model.

15 1 & sudo clocker run -t -- run -p {LOCAL PORTS: 2501 \
                                     - v " (also path)/model_name: /models/model_name" \
                                     -e "MODEL_NAME_model_name" \
                                    tensorflow Iserving
           Ly For example: model name is archae-keros.
                   H colos_path>
                       Hartare heros
                                - lossets, Immiddes
                                 > Sand-madel. pb
```

Scanned with CamScanner

```
=> clocker command:
           $ docker -t -- rm -p 8502: 8501
                                  " (abs_path >/urcture_keras: /models/ civotace_keras"
                                 "MODEL NAME = arcfaue heras"
                              tensorflow serving
    Lo Now the model can be ucus, for prediction at:
       * http://localhost: 8502/V1/ models / archace_horas: predict"
                                          model name.
(4) Using the model.
    Lo You can send data for prediction using python requests. Eg:
   import cv2
   import ison
    import time
   import requests
   import numpy as np
   url = "http://loculhost: 8502/v1/models/arcface_keras: predict"
   test_img = cv2. imread ("2.jpg")
   def make_request (model-url, img):
        ing = cu2. resize (ing, (170, 170))
        labl = up.zeros (93742)
       data = Json.dumps (t
            "signature_name": "serving_defult",
         instance : [2
   Input terrors & "input_1": img.tolist(), > input have to be plain lists.
               "input-2": lubl.tolist()
  heders = 2"content-type": "application /jon"4
  ( ) | r = me requests post (madel url, data - data, hoaders = headers)
     predictions = np.array (jeon.loads (r. text) ["predictions"])
     return predictions.
```