```
In [ ]: #1s
In [ ]: | cd 'RUN2'
        /content/drive/My Drive/RUN2
In [ ]: | #!unzip admset213.zip
In [ ]: | cd admrun2
        /content/drive/My Drive/RUN2/admrun2
In [ ]: | ls
        admrun2/
                      test_images_from_train/ train sample.csv
        admset213.zip test sample.csv
                                                 validation_images_model/
        run2.ipynb
                      train.csv
                                                 validation sample.csv
        test.csv
                       train_images_model/
In [ ]: | import numpy as np
        import pandas as pd
        import sys, requests, shutil, os
        data_train=pd.read_csv("train_sample.csv")
        data valid=pd.read csv("validation sample.csv")
        data test=pd.read csv("test sample.csv")
```

```
In [ ]: import numpy as np
        from tensorflow.keras.preprocessing.image import ImageDataGenerator, im
        g to array, load img
        from tensorflow.keras.models import Sequential
        from tensorflow.keras.layers import Dropout, Flatten, Dense
        from tensorflow.keras import applications
        from tensorflow.keras.preprocessing.image import ImageDataGenerator
        from tensorflow.keras import optimizers
        #from tensorflow.keras.utils.np utils import to categorical
        from tensorflow.keras.utils import to categorical
        from tensorflow.keras.callbacks import ModelCheckpoint
        from tensorflow.keras.models import Model
        import csv
        import os
        #import cv2
        from tensorflow.keras.models import load model
        import matplotlib.pyplot as plt
        import math
        from tensorflow.keras.optimizers import Adam
        from sklearn.model selection import train test split
        from tensorflow.keras.preprocessing.image import img to array
        from tensorflow.keras.utils import to categorical
        import matplotlib.pyplot as plt
        import numpy as np
        import argparse
        import random
        import tensorflow as tf
        import tensorflow.keras
```

```
In []: | '''
                There are few images that are not possible to open because they
        are corrupted or
            they do exhibit some properties which are not applicable to standar
        d algorithms,
            these may result in algorithm going to infinite loop trying to proc
        ess it.All those images
            are removed using the function below.
        from PIL import Image
        import os
        def filter images(dir):
            i = 1000
            count = 0
            while i <= 1000:
                f = str(i)
                for root, dirs, files in os.walk(dir +'/'+ f):
                    for pic in files:
                        p=dir+'/'+f+'/'+pic
                        try:
                            im=Image.open(p) # if the image opening throws er
        ror
                        except IOError:
                            count+=1
                            os.remove(p) # catch it and delete it
                    i += 1
        filter images('train images model')
        filter images('validation images model')
        filter images('test images from train')
```

```
In [ ]:  # This cell counts the total number of train images and validation imag
        es in the entire dataset
        # It stores the counts of train data 108181 training samples belonging
        to 1000 classes and
        # 19826 test samples in the respective variables nb train samples and n
        b validation samples
        train data dir = 'train images model'
                                                               # points to dir
        ectory having train images
        validation data dir = 'validation images model'
                                                               # points to dir
        ectory having validation images
        def count(dir):
            i = 3000
            count = []
            while i <= 4999:
                f = str(i)
                #print (f)
                for root, dirs, files in os.walk(dir +'/'+ f): # os. walk() is
        used to iterate through all folders of a directory
                    for pic in files:
                        count.append(f)
                    i += 1
            print (len(count))
            return ([len(count),count])
        nb train samples = count(train data dir)
        nb_validation_samples = count(validation data dir)
        99724
        21400
In [ ]: | #Importing few other files needed
        import pandas as pd
        import os
        import shutil
        from shutil import copyfile
        import urllib
```

```
In []: | # here we build the VGG 16 model, which is pretrained using the imagene
        t dataset,
        # This is achieved by setting weights = 'imagenet' as a parameter while
        building the model
        img width, img height = 96, 96 #dimensions used in the model
        top model weights path = 'bottleneck fc model.h5' # this is used to sav
        e weights in later stages, avoid recomputations
        epochs = 5
        batch size = 428 \#GCD
        def save bottleneck features():
            datagen = ImageDataGenerator(rescale=1. / 255,
                                          rotation range=30,
                                          width shift range=0.2,
                                          height shift range=0.2,
                                          zoom range = 0.5,
                                          brightness range = [0.5, 1.5])
            # VGG 16 FramerWork
            model = applications.VGG16(include top=False, weights='imagenet', i
        nput shape=(96, 96, 3))
            print ('start1')
            generator = datagen.flow from directory(
                train data dir,
                target size=(img width, img height),
                batch size=batch size,
                class mode=None,
                shuffle=False)
            print ('start2')
            bottleneck features train = model.predict generator(generator, nb t
        rain samples[0] // batch size)
            print ('bottleneck_features trained')
            with open('bottleneck features train.npy', 'wb') as features train
        file:
                np.save(features train file, bottleneck features train)
            print ('Train done')
            datagen = ImageDataGenerator(rescale=1. / 255)
            generator = datagen.flow from directory(
                validation data dir,
                target_size=(img_width, img height),
                batch size=batch size,
                class mode=None,
                shuffle=False)
            print ('validation predict start')
            bottleneck_features_validation = model.predict_generator(generator,
        nb validation samples[0] // batch size)
            with open('bottleneck features validation.npy', 'wb') as features v
        alidation file:
                np.save(features validation file, bottleneck features validatio
```

5 of 108

```
print ('validation done')
        save bottleneck features()
        Downloading data from https://storage.googleapis.com/tensorflow/keras
        -applications/vgg16/vgg16 weights tf dim ordering tf kernels notop.h5
        Found 99724 images belonging to 2000 classes.
        start2
        WARNING:tensorflow:From <ipython-input-20-cd1ff807f0ca>:27: Model.pre
        dict generator (from tensorflow.python.keras.engine.training) is depr
        ecated and will be removed in a future version.
        Instructions for updating:
        Please use Model.predict, which supports generators.
        /usr/local/lib/python3.6/dist-packages/PIL/Image.py:932: UserWarning:
        Palette images with Transparency expressed in bytes should be convert
        ed to RGBA images
          "Palette images with Transparency expressed in bytes should be "
        bottleneck features trained
        Train done
        Found 21400 images belonging to 2000 classes.
        validation predict start
        validation done
In []: # counts of train and validation labels
        train labels = np.array(nb train samples[1])
        train labels = [str(int(train label) - 3000) for train label in train l
        abels]
        print(len(train labels))
        train_data = np.load(open('bottleneck_features train.npy', 'rb'))
        print(len(train data))
        validation data = np.load(open('bottleneck features validation.npy', 'r
        b'))
        print(len(validation data))
        validation labels = np.array(nb validation samples[1])
        print(len(validation labels))
        99724
        99724
        21400
        21400
```

```
In [ ]: epochs = 5
        batch size = 428
        import numpy as np
        def train top model():
            train data = np.load(open('bottleneck features train.npy', 'rb'))
            train labels = np.array(nb train samples[1])
            train labels = [str(int(train label) - 3000) for train label in tra
        in labels]
            # we do label-1000, so that class lable starts from 0, as we have 1
        abels starting from 1000
            validation data = np.load(open('bottleneck features validation.npy
        ', 'rb'))
            validation labels = np.array(nb validation samples[1])
            validation labels = [str(int(validation label) - 3000) for validati
        on label in validation labels]
            model = Sequential()
            model.add(Flatten(input shape=train data.shape[1:]))
            model.add(Dense(256, activation='relu'))
            model.add(Dense(256, activation='relu'))
            n class = 2000 # max. classes given to the model
            model.add(Dense(n class, activation='softmax'))
            model.compile(optimizer='rmsprop',
                          loss='categorical crossentropy', metrics=['accuracy
        '])
            train labels = to categorical(train labels, n class)
            validation labels = to categorical(validation labels, n class)
            print ('model fit starting')
            model.fit(train data, train labels,epochs=epochs,batch size=batch s
        ize,validation data=(validation data, validation labels))
            model.save weights(top model weights path)
        train top model()
        model fit starting
        Epoch 1/5
```

Tensor("input_2:0", shape=(None, 96, 96, 3), dtype=float32)

```
In [ ]: # This is where we fine tune the pretrained model according to our data
        set
        img width, img height = 96, 96
        top model weights path = 'bottleneck fc model.h5'
        train data dir = 'train images model'
        validation data dir = 'validation images model'
        batch size = 200
        epochs = 50
        def trainCNN():
            # build the VGG16 network
            base model = applications.VGG16(weights='imagenet', include top= Fal
        se, input shape=(96, 96, 3))
            top model = Sequential()
            top model.add(Flatten(input shape=base model.output shape[1:]))
            top model.add(Dense(256, activation='relu'))
            top model.add(Dense(256, activation='relu'))
            n class = 2000
            top model.add(Dense(n class, activation='softmax'))
            top model.load weights (top model weights path) #Load the weights in
        itialized in previous steps
            model = Model(base model.input, top model(base model.output))
            # set the first 16 layers to non-trainable (weights will not be upd
        ated)
            # 1 conv layer and three dense layers will be trained
            for layer in model.layers[:16]:
                layer.trainable = False
            model.compile(loss='categorical crossentropy',
                           optimizer=optimizers.Adam(lr=0.001, beta 1=0.9,beta 2
        =0.999,epsilon=1e-8, decay=0.0),
                          metrics=['accuracy'])
            print ('Compilation done.')
            train datagen = ImageDataGenerator(rescale=1. / 255,
                                                rotation range=90,
                                                 width shift range=0.2,
                                                 height shift range=0.2,
                                                 zoom range = 0.5)
            valid datagen = ImageDataGenerator(rescale=1. / 255)
            train generator = train datagen.flow from directory(
                train data dir,
                target size=(img height, img width),
                batch size=batch size,
                class mode='categorical')
            np.save('class indices.npy', train generator.class indices)
```

```
validation generator = valid datagen.flow from directory(
        validation data dir,
        target size=(img height, img width),
        batch size=batch size,
        class mode='categorical')
    print ('Model fit begins...')
    model.fit generator(
       train generator,
        steps per epoch=340,
        epochs=epochs,
        validation_data=validation_generator,
        validation steps=100,
        callbacks=[ModelCheckpoint(filepath=top model weights path, sav
e best only=True, save weights only=True)]
    model.save weights(top model weights path)
    # final weights are saved in bottleneck fc model.h5 file
trainCNN()
```

Compilation done.

Found 99724 images belonging to 2000 classes.

Found 21400 images belonging to 2000 classes.

Model fit begins...

WARNING:tensorflow:From <ipython-input-24-6b4d59130c1f>:65: Model.fit _generator (from tensorflow.python.keras.engine.training) is deprecat ed and will be removed in a future version.

Instructions for updating:

Please use Model.fit, which supports generators.

/usr/local/lib/python3.6/dist-packages/PIL/Image.py:932: UserWarning: Palette images with Transparency expressed in bytes should be converted to RGBA images

"Palette images with Transparency expressed in bytes should be "

```
Epoch 1/50
1 - accuracy: 0.1338 - val loss: 4.4888 - val accuracy: 0.2026
8 - accuracy: 0.2232 - val loss: 3.9779 - val accuracy: 0.2918
4 - accuracy: 0.2725 - val loss: 3.7460 - val accuracy: 0.3413
Epoch 4/50
2 - accuracy: 0.3087 - val loss: 3.5531 - val accuracy: 0.3729
Epoch 5/50
8 - accuracy: 0.3369 - val loss: 3.4336 - val accuracy: 0.3968
Epoch 6/50
3 - accuracy: 0.3519 - val loss: 3.2745 - val accuracy: 0.4268
Epoch 7/50
4 - accuracy: 0.3697 - val loss: 3.0824 - val accuracy: 0.4572
340/340 [============= ] - 394s 1s/step - loss: 3.079
3 - accuracy: 0.3812 - val loss: 3.0777 - val accuracy: 0.4631
Epoch 9/50
340/340 [============== ] - 395s 1s/step - loss: 2.982
9 - accuracy: 0.3991 - val loss: 2.9978 - val accuracy: 0.4780
Epoch 10/50
340/340 [============== ] - 396s 1s/step - loss: 2.912
4 - accuracy: 0.4081 - val loss: 2.9729 - val accuracy: 0.4827
Epoch 11/50
340/340 [============= ] - 393s 1s/step - loss: 2.857
8 - accuracy: 0.4146 - val loss: 2.8633 - val accuracy: 0.5006
Epoch 12/50
340/340 [============= ] - 392s 1s/step - loss: 2.828
3 - accuracy: 0.4186 - val loss: 2.8531 - val accuracy: 0.5020
Epoch 13/50
340/340 [============= ] - 396s 1s/step - loss: 2.769
1 - accuracy: 0.4294 - val loss: 2.8668 - val accuracy: 0.5047
Epoch 14/50
8 - accuracy: 0.4348 - val loss: 2.8277 - val accuracy: 0.5141
Epoch 15/50
7 - accuracy: 0.4423 - val loss: 2.8393 - val accuracy: 0.5109
Epoch 16/50
340/340 [============= ] - 391s 1s/step - loss: 2.670
8 - accuracy: 0.4444 - val loss: 2.7507 - val accuracy: 0.5239
Epoch 17/50
340/340 [============= ] - 394s 1s/step - loss: 2.631
7 - accuracy: 0.4492 - val loss: 2.8086 - val accuracy: 0.5238
Epoch 18/50
340/340 [============== ] - 397s 1s/step - loss: 2.612
7 - accuracy: 0.4548 - val loss: 2.7775 - val accuracy: 0.5248
340/340 [============== ] - 393s 1s/step - loss: 2.588
```

```
5 - accuracy: 0.4554 - val loss: 2.7405 - val accuracy: 0.5415
Epoch 20/50
6 - accuracy: 0.4613 - val loss: 2.6432 - val accuracy: 0.5456
Epoch 21/50
7 - accuracy: 0.4652 - val loss: 2.6720 - val accuracy: 0.5534
Epoch 22/50
0 - accuracy: 0.4715 - val loss: 2.7038 - val accuracy: 0.5500
Epoch 23/50
340/340 [============= ] - 393s 1s/step - loss: 2.502
7 - accuracy: 0.4702 - val loss: 2.6991 - val accuracy: 0.5521
Epoch 24/50
0 - accuracy: 0.4800 - val loss: 2.6570 - val accuracy: 0.5636
8 - accuracy: 0.4802 - val loss: 2.6127 - val accuracy: 0.5676
Epoch 26/50
8 - accuracy: 0.4799 - val loss: 2.6527 - val accuracy: 0.5635
Epoch 27/50
9 - accuracy: 0.4827 - val loss: 2.6358 - val accuracy: 0.5607
Epoch 28/50
9 - accuracy: 0.4870 - val loss: 2.7533 - val accuracy: 0.5520
Epoch 29/50
9 - accuracy: 0.4908 - val loss: 2.6785 - val accuracy: 0.5692
Epoch 30/50
340/340 [============= ] - 366s 1s/step - loss: 2.380
0 - accuracy: 0.4916 - val loss: 2.6147 - val accuracy: 0.5724
Epoch 31/50
6 - accuracy: 0.4948 - val loss: 2.5595 - val accuracy: 0.5881
Epoch 32/50
6 - accuracy: 0.4975 - val loss: 2.5713 - val accuracy: 0.5836
Epoch 33/50
340/340 [============== ] - 382s 1s/step - loss: 2.355
1 - accuracy: 0.4981 - val loss: 2.5431 - val accuracy: 0.5883
Epoch 34/50
340/340 [============== ] - 363s 1s/step - loss: 2.342
2 - accuracy: 0.4985 - val loss: 2.6465 - val accuracy: 0.5835
Epoch 35/50
340/340 [============= ] - 357s 1s/step - loss: 2.324
4 - accuracy: 0.5001 - val loss: 2.6128 - val accuracy: 0.5874
Epoch 36/50
340/340 [============= ] - 350s 1s/step - loss: 2.319
7 - accuracy: 0.5029 - val loss: 2.6066 - val accuracy: 0.5829
```

```
In [ ]: from tensorflow.python.platform import app
        import argparse
        import os
        import sys
        import time
        from time import *
        import io
        import tensorflow as tf
In [ ]: ls
        admset213.zip
                                            test.csv
        bottleneck fc model.h5
                                            test_images_from_train/
        bottleneck features train.npy test sample.csv
        \verb|bottleneck| features_validation.npy | train.csv|
        class indices.npy
                                            train images model/
        result.csv
                                            train sample.csv
        RUN/
                                            validation images model/
        run2.ipynb
                                             validation sample.csv
In [ ]: top model weights path = 'bottleneck fc model.h5'  # final weights
        of the model
        train data dir = 'train images model'
        testfile = 'test images from train'
        subfile = 'result.csv'
                                                                 # predictions o
        f the model
```

```
In [ ]: from keras import backend as K
        import cv2
        top model weights path = 'bottleneck fc model.h5'  # final weights
        of the model
        train data dir = 'train images model'
        testfile = 'test images from train'
        subfile = 'result2.csv'
                                                                  # predictions
        of the model
        def predict(image path):
            print ('starting')
            path, dirs, files = next(os.walk(image_path))
            file len = len(files)
            print('Number of Testimages:', file len)
            #train datagen = ImageDataGenerator(rescale=1. / 255)
            #generator = train datagen.flow from directory(train data dir, batc
        h size=batch size)
            #label map = (generator.class indices)
            label map={}
            for i in range(2000):
              label map[str(3000+i)]=i
            n class = 2000
            base model = applications.VGG16 (weights='imagenet', include top=Fal
        se, input shape=(96, 96, 3))
            top model = Sequential()
            top model.add(Flatten(input shape=base model.output shape[1:]))
            top model.add(Dense(256, activation='relu'))
            top model.add(Dense(256, activation='relu'))
            top model.add(Dense(n class, activation='softmax'))
            model = Model(base model.input, top model(base model.output))
            model.load weights(top model weights path)
            with open(subfile, 'w') as csvfile:
                newFileWriter = csv.writer(csvfile)
                newFileWriter.writerow(['id', 'landmarks','confidence'])
                file counter = 0
                for root, dirs, files in os.walk(image path): # loop through s
        tartfolders
                    i=0
                    for pic in files:
                        i+=1
                        #loop folder and convert image
                        path = image path + '/' + pic
                        orig = cv2.imread(path)
                        image = load img(path, target size=(96, 96))
                        image = img to array(image)
                        # important! otherwise the predictions will be '0'
                        image = image / 255
                        image = np.expand dims(image, axis=0)
                        #classify landmark
```

```
prediction = model.predict(image)
                class predicted = prediction.argmax(axis=1)
                #class_predicted = np.argmax(prediction,axis=1)
                #print (pic, class predicted)
                inID = class predicted[0]
                #print inID
                inv map = {v: k for k, v in label map.items()}
                #print class dictionary
                label = inv map[inID]
                score = max(prediction[0])
                scor = "{:.2f}".format(score)
                #out = str(label) + ' '+ scor
                print (i,score,label)
                newFileWriter.writerow([os.path.splitext(pic)[0], int(l
abel),scor])
predict(testfile)
```

```
starting
```

Number of Testimages: 5168

- 1 0.806817 3274
- 2 0.38527328 3868
- 3 0.70156777 3130
- 4 0.20947924 4124
- 5 0.3060793 3619
- 6 0.43088424 4644
- 7 0.9930876 4352
- 8 0.19401854 3563
- 9 0.38142994 4645
- 10 1.0 3518
- 11 0.99997365 4352
- 12 0.7042313 3459
- 13 0.3953463 3770
- 14 0.32648245 3924
- 15 0.93806136 3249
- 16 0.67641515 3130
- 17 0.9309056 4352
- 18 0.39596814 3804
- 19 0.1562511 4124
- 20 0.24131607 3518
- 21 0.3486548 4987
- 22 0.9271772 4869
- 23 0.74781805 4352
- 24 0.17166659 3924
- 25 0.9999989 3410
- 26 0.998386 3987
- 27 0.22848599 3849
- 28 0.97179776 4873
- 29 0.4345432 3130
- 30 0.71738034 3924
- 31 0.27359554 4388
- 32 0.7881216 4210
- 33 0.23062392 4240
- 34 0.68312335 3332
- 35 0.35648656 3872
- 36 0.9986785 4352
- 37 0.30351555 4987
- 38 0.22536306 3924
- 39 0.83417654 4115
- 40 0.19560361 4737
- 41 0.37565538 4340
- 42 0.9993303 3829
- 43 0.9462506 4352
- 44 0.3475381 3096
- 45 0.58318764 3039
- 46 0.45394483 4493
- 47 0.37547228 3228
- 48 0.16636014 4981
- 49 0.9943416 4353
- 50 0.54943645 3144
- 51 0.9983333 4352
- 52 0.9999883 4352
- 53 0.99891794 3020
- 54 1.0 3497

- 55 0.998978 3394
- 56 0.72804266 4898
- 57 0.99703467 4210
- 58 0.6979364 3885
- 59 0.5785298 4352
- 60 0.1312357 4340
- 61 0.46326792 4697
- 62 0.9990746 3497
- 63 0.038116533 4987

/usr/local/lib/python3.6/dist-packages/PIL/Image.py:932: UserWarning: Palette images with Transparency expressed in bytes should be convert ed to RGBA images

"Palette images with Transparency expressed in bytes should be "

Streaming output truncated to the last 5000 lines.

- 170 0.36638626 3409
- 171 0.9990102 3497
- 172 0.20788278 4706
- 173 0.32107264 3338
- 174 0.092149645 3455
- 175 0.8824348 3020
- 176 0.348174 3931
- 177 0.62602293 3561
- 178 0.9958187 3151
- 179 0.26406842 4954
- 180 0.5272394 3397
- 181 0.36068127 4470
- 182 0.06856489 4070
- 183 0.40414912 3372
- 184 0.96442586 4352
- 185 0.25304294 4776
- 186 0.19494724 4987
- 187 0.62533355 4330
- 188 0.9942913 3283
- 189 0.9999988 3804
- 190 0.4406023 4170
- 191 0.25130677 3296
- 192 0.99492973 4190
- 193 0.47623056 4275
- 194 0.9941241 3804
- 195 0.46039718 4830
- 196 0.8896221 4934
- 197 0.9815957 4327
- 198 0.99999213 4105
- 199 0.47569606 4010
- 200 0.183693 3924
- 201 0.95186466 3518
- 202 0.4375229 3987
- 203 0.90219325 4624
- 204 0.8207762 4028
- 205 0.1470564 4686
- 206 0.59606713 4957
- 207 0.40412012 3924
- 208 0.3677414 3128
- 209 0.058572818 3962
- 210 0.9663109 4954
- 211 0.55696166 3749
- 212 0.2588967 3664
- 213 0.113977745 3596 214 0.98530895 4085
- 215 0.4769343 4470
- 216 0.116282105 4330
- 217 0.9999747 4108
- 218 0.3842683 3611
- 219 0.47161067 3804
- 220 0.9998362 3155
- 221 0.10082667 3710
- 222 0.99804187 4987
- 223 0.9950283 3130
- 224 0.99999917 4352

- 225 0.058572818 3962
- 226 0.058572818 3962
- 227 0.99608874 3924
- 228 0.2629098 4960
- 229 0.12619804 3354
- 230 0.9613243 3296
- 231 0.72089547 4340
- 232 0.58965594 3322
- 233 0.26316342 3987
- 234 0.3122435 4644
- 235 0.095581666 3924
- 233 0.093381000 3924
- 236 0.99994326 3497
- 237 0.7118915 4085
- 238 0.9928861 4108 239 0.9935824 4352
- 233 0.3333024 4332
- 240 0.8826936 3249
- 241 0.26941022 4327 242 0.15237075 3611
- 212 0:13237073 3011
- 243 0.99987733 4352
- 244 0.9999949 4352
- 245 0.46298876 4793
- 246 0.9955509 4124
- 247 0.99639386 3701
- 248 0.3661116 3544
- 249 0.1911756 3695
- 250 0.8477814 3888
- 251 0.28752413 3941
- 252 0.9999994 3283
- 253 0.99262494 4551
- 254 0.038116533 4987
- 251 0:050110555 150
- 255 0.969344 4960
- 256 0.05978773 3482
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- 4948 0.9915422 3078
- 4949 0.03191987 4352
- 4950 0.8652836 3924
- 4951 0.883496 4954
- 4952 0.4104976 4815
- 4953 0.3001049 3278
- 4954 0.9955967 4987
- 4955 0.20333458 3306
- 4956 0.99953246 4352
- 4957 0.9890505 4330
- 4958 0.4413204 3924
- 4959 0.03191987 4352
- 4960 0.997874 3829
- 4961 0.96301377 3078
- 4962 0.9977005 4949
- 4963 0.79363185 4340
- 4964 0.9980959 4352
- 4965 0.98493356 3942 4966 0.08902419 4386
- 1900 0.00902119 1900
- 4967 0.38772798 4694
- 4968 0.999453 3497
- 4969 0.20693922 3518
- 4970 0.99970645 3715
- 4971 0.17583129 3695
- 4972 0.44089717 3997
- 4973 0.18140413 4040
- 4974 0.8076206 4450
- 4975 0.4483657 3574
- 4976 0.15286796 4561
- 4977 0.43339294 4352
- 4978 0.34410858 3349
- 4979 0.2472633 4372
- 4980 0.90509427 3283
- 4981 0.2800905 3704
- 4982 0.7965915 3228
- 4983 0.06332776 3958 4984 0.094155446 3926

5040 0.95640206 3497

```
5041 0.0444458 4352
        5042 1.0 4987
        5043 0.87085235 4352
        5044 0.99003863 4987
        5045 0.18385182 4943
        5046 0.9727518 4300
        5047 0.5535339 3063
        5048 0.45763335 4124
        5049 0.9906158 3296
        5050 0.9976427 3518
        5051 0.2516073 3103
        5052 0.98162246 4860
        5053 0.3105572 4981
        5054 0.062411517 3496
        5055 0.44368038 3385
        5056 0.38794062 4724
        5057 0.5315744 3397
        5058 0.03191987 4352
        5059 0.48020044 4149
        5060 0.96658564 4536
        5061 0.9858263 4737
        5062 0.9992636 4352
        5063 0.94764453 3258
        5064 0.9862168 3924
        5065 0.9883436 4352
        5066 0.17046079 4640
        5067 0.46900535 4313
        5068 0.54245514 3804
        5069 0.63838696 3499
        5070 0.8939211 3707
        5071 0.64900017 4954
        5072 0.03191987 4352
        5073 0.71993583 4767
        5074 0.11688765 3804
        5075 0.9067657 4644
        5076 0.404324 4003
        5077 0.8252218 4613
        5078 0.6533076 3924
        5079 0.9711231 4644
        5080 0.270069 4352
        5081 0.16682546 4885
        5082 0.21220809 3962
        5083 0.96232 4987
        5084 0.5788705 4330
        5085 0.27073637 4430
        EUOE U 0000EOUE 343E
In [ ]: #result = pd.read csv('result.csv')
                                             # predicted values
In [ ]: #test = pd.read csv('test sample.csv') # ground truth
```

```
In []: # final accuracy of the model as tested on test dataset
        import pandas as pd
        def test accuracy(pred,truth):
            result=pd.read csv(pred)
            #print(result.head(20))
            test=pd.read csv(truth)
            count=0
            for i in result["id"]:
                 a=result.loc[result['id'] == i, "landmarks"]
                b=a.values
                #b=list(b[0].split(" "))
                b[0] = int(b[0])
                if i in test.id.values:
                  c=test.loc[test['id'] == i, "landmark id"]
                  d=c.values
                  if b[0] == d[0]:
                      count+=1
            print(count/len(result))
            return count/len(result)
        test accuracy("result2.csv","test sample.csv")
```

0.6106811145510835

Out[]: 0.6106811145510835

```
In [ ]: | # This call calulates the Global Average Precision Metric
        import pandas as pd
        def GAP metric(path):
            result=pd.read csv(path)
            test=pd.read csv("test sample.csv")
            result=result.sort values(by='confidence', ascending=False)
            true=0
            total=0
            s=0
            relevance=0
            for i in result['id']:
                total+=1
                a=result.loc[result['id'] == i, "landmarks"]
                b=a.values
                #if i in test['id']:
                if i in test.id.values:
                  c=test.loc[test['id'] == i, "landmark id"]
                  d=c.values
                  if b[0] == d[0]:
                      true+=1
                       relevance=1
                 s+=(true/total)*relevance
                 relevance=0
            print(M,s,total,true)
            print(s/M)
            return s/M
        GAP metric("result2.csv")
        5168 2947.5271513731795 5168 3156
        0.5703419410551818
Out[]: 0.5703419410551818
In [ ]: |#GAP metric('result.csv')
In [ ]:
```