

# Segmentation of Indian Traffic

1. You can download the data from this link, and extract it
2. All your data will be in the folder "data"
3. Inside the data you will be having two folders

```
|--- data
|----| ---- images
|----| ----- Scene 1
|----| -----| ----- Frame 1 (image 1)
|----| -----| ----- Frame 2 (image 2)
|----| -----| -----
|----| ----- Scene 2
|----| -----| ----- Frame 1 (image 1)
|----| -----| ----- Frame 2 (image 2)
|----| -----| -----
|----| -----| -----
|----| ----- masks
|----| ----- Scene 1
|----| -----| ----- json 1 (labeled objects in image 1)
|----| -----| ----- json 2 (labeled objects in image 1)
|----| -----| -----
|----| ----- Scene 2
|----| -----| ----- json 1 (labeled objects in image 1)
|----| -----| ----- json 2 (labeled objects in image 1)
|----| -----| -----
|----| -----| -----| ----- . . .
```

```
In [ ]: import math
from PIL import Image, ImageDraw
from PIL import ImagePath
import pandas as pd
```

```
import json
import os
from os import path
from tqdm import tqdm
import json
import cv2
import numpy as np
import matplotlib.pyplot as plt
import urllib
```

```
In [ ]: from google.colab import drive
drive.mount('/content/drive')
```

Mounted at /content/drive

```
In [ ]: !unzip /content/drive/MyDrive/data.zip
```

**Streaming output truncated to the last 5000 lines.**

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inflating: data/mask/414/frame78817_gtFine_polygons.json
inflating: data/mask/414/frame79362_gtFine_polygons.json
inflating: data/mask/414/frame79794_gtFine_polygons.json
inflating: data/mask/414/frame80135_gtFine_polygons.json
inflating: data/mask/414/frame80453_gtFine_polygons.json
  creating: data/mask/416/
inflating: data/mask/416/0000213_gtFine_polygons.json
inflating: data/mask/416/0000456_gtFine_polygons.json
inflating: data/mask/416/0000723_gtFine_polygons.json
inflating: data/mask/416/0000814_gtFine_polygons.json
inflating: data/mask/416/0000900_gtFine_polygons.json
inflating: data/mask/416/0001267_gtFine_polygons.json
inflating: data/mask/416/0001409_gtFine_polygons.json
inflating: data/mask/416/0001540_gtFine_polygons.json
inflating: data/mask/416/0001613_gtFine_polygons.json
inflating: data/mask/416/0001744_gtFine_polygons.json
inflating: data/mask/416/0001857_gtFine_polygons.json
inflating: data/mask/416/0001924_gtFine_polygons.json
inflating: data/mask/416/0002089_gtFine_polygons.json
inflating: data/mask/416/0002722_gtFine_polygons.json
inflating: data/mask/416/0002861_gtFine_polygons.json
inflating: data/mask/416/0003423_gtFine_polygons.json
inflating: data/mask/416/0003613_gtFine_polygons.json
inflating: data/mask/416/0003921_gtFine_polygons.json
inflating: data/mask/416/0004068_gtFine_polygons.json
inflating: data/mask/416/0004280_gtFine_polygons.json
inflating: data/mask/416/0004571_gtFine_polygons.json
inflating: data/mask/416/0005055_gtFine_polygons.json
inflating: data/mask/416/0005174_gtFine_polygons.json
inflating: data/mask/416/0005244_gtFine_polygons.json
inflating: data/mask/416/0005840_gtFine_polygons.json
inflating: data/mask/416/0006082_gtFine_polygons.json
inflating: data/mask/416/0006371_gtFine_polygons.json
inflating: data/mask/416/0006575_gtFine_polygons.json
  creating: data/mask/417/
inflating: data/mask/417/0000000_gtFine_polygons.json
inflating: data/mask/417/0000584_gtFine_polygons.json
inflating: data/mask/417/0000695_gtFine_polygons.json
inflating: data/mask/417/0000781_gtFine_polygons.json
inflating: data/mask/417/0000848_gtFine_polygons.json
inflating: data/mask/417/0000940_gtFine_polygons.json
```

```
inflating: data/mask/417/0001083_gtFine_polygons.json
inflating: data/mask/417/0001183_gtFine_polygons.json
inflating: data/mask/417/0001487_gtFine_polygons.json
inflating: data/mask/417/0001756_gtFine_polygons.json
inflating: data/mask/417/0001986_gtFine_polygons.json
inflating: data/mask/417/0002149_gtFine_polygons.json
inflating: data/mask/417/0002365_gtFine_polygons.json
inflating: data/mask/417/0002457_gtFine_polygons.json
inflating: data/mask/417/0002558_gtFine_polygons.json
inflating: data/mask/417/0002652_gtFine_polygons.json
inflating: data/mask/417/0003404_gtFine_polygons.json
inflating: data/mask/417/0003987_gtFine_polygons.json
inflating: data/mask/417/0004119_gtFine_polygons.json
inflating: data/mask/417/0004398_gtFine_polygons.json
inflating: data/mask/417/0004560_gtFine_polygons.json
inflating: data/mask/417/0004921_gtFine_polygons.json
inflating: data/mask/417/0005099_gtFine_polygons.json
inflating: data/mask/417/0005231_gtFine_polygons.json
inflating: data/mask/417/0005466_gtFine_polygons.json
inflating: data/mask/417/0005971_gtFine_polygons.json
inflating: data/mask/417/0006252_gtFine_polygons.json
inflating: data/mask/417/0006366_gtFine_polygons.json
inflating: data/mask/417/0006547_gtFine_polygons.json
inflating: data/mask/417/0006899_gtFine_polygons.json
inflating: data/mask/417/0007249_gtFine_polygons.json
inflating: data/mask/417/0007492_gtFine_polygons.json
inflating: data/mask/417/0007940_gtFine_polygons.json
inflating: data/mask/417/0008080_gtFine_polygons.json
inflating: data/mask/417/0008799_gtFine_polygons.json
inflating: data/mask/417/0010926_gtFine_polygons.json
inflating: data/mask/417/0011515_gtFine_polygons.json
inflating: data/mask/417/0012819_gtFine_polygons.json
inflating: data/mask/417/0013412_gtFine_polygons.json
inflating: data/mask/417/0013929_gtFine_polygons.json
inflating: data/mask/417/0014129_gtFine_polygons.json
inflating: data/mask/417/0015139_gtFine_polygons.json
inflating: data/mask/417/0015248_gtFine_polygons.json
inflating: data/mask/417/0015371_gtFine_polygons.json
inflating: data/mask/417/0015565_gtFine_polygons.json
inflating: data/mask/417/0015878_gtFine_polygons.json
inflating: data/mask/417/0016322_gtFine_polygons.json
inflating: data/mask/417/0016558_gtFine_polygons.json
inflating: data/mask/417/0016881_gtFine_polygons.json
inflating: data/mask/417/0017008_gtFine_polygons.json
inflating: data/mask/417/0017425_gtFine_polygons.json
```

```
inflating: data/mask/417/0017623_gtFine_polygons.json
inflating: data/mask/417/0018056_gtFine_polygons.json
inflating: data/mask/417/0018442_gtFine_polygons.json
inflating: data/mask/417/0018578_gtFine_polygons.json
inflating: data/mask/417/0018972_gtFine_polygons.json
inflating: data/mask/417/0019370_gtFine_polygons.json
inflating: data/mask/417/0019674_gtFine_polygons.json
inflating: data/mask/417/0019901_gtFine_polygons.json
inflating: data/mask/417/0020010_gtFine_polygons.json
inflating: data/mask/417/0020316_gtFine_polygons.json
inflating: data/mask/417/0020462_gtFine_polygons.json
inflating: data/mask/417/0020558_gtFine_polygons.json
inflating: data/mask/417/0020614_gtFine_polygons.json
inflating: data/mask/417/0020794_gtFine_polygons.json
inflating: data/mask/417/0021541_gtFine_polygons.json
  creating: data/mask/419/
inflating: data/mask/419/frame0002_gtFine_polygons.json
inflating: data/mask/419/frame0092_gtFine_polygons.json
inflating: data/mask/419/frame0179_gtFine_polygons.json
inflating: data/mask/419/frame0392_gtFine_polygons.json
inflating: data/mask/419/frame0512_gtFine_polygons.json
inflating: data/mask/419/frame0842_gtFine_polygons.json
inflating: data/mask/419/frame1232_gtFine_polygons.json
inflating: data/mask/419/frame1349_gtFine_polygons.json
inflating: data/mask/419/frame1679_gtFine_polygons.json
inflating: data/mask/419/frame1769_gtFine_polygons.json
inflating: data/mask/419/frame1979_gtFine_polygons.json
inflating: data/mask/419/frame2279_gtFine_polygons.json
inflating: data/mask/419/frame2459_gtFine_polygons.json
inflating: data/mask/419/frame2789_gtFine_polygons.json
inflating: data/mask/419/frame2909_gtFine_polygons.json
inflating: data/mask/419/frame3119_gtFine_polygons.json
inflating: data/mask/419/frame3239_gtFine_polygons.json
inflating: data/mask/419/frame3389_gtFine_polygons.json
inflating: data/mask/419/frame3719_gtFine_polygons.json
  creating: data/mask/421/
inflating: data/mask/421/0000001_gtFine_polygons.json
inflating: data/mask/421/0000064_gtFine_polygons.json
inflating: data/mask/421/0000325_gtFine_polygons.json
inflating: data/mask/421/0000351_gtFine_polygons.json
inflating: data/mask/421/0000450_gtFine_polygons.json
inflating: data/mask/421/0000477_gtFine_polygons.json
inflating: data/mask/421/0000571_gtFine_polygons.json
inflating: data/mask/421/0000711_gtFine_polygons.json
inflating: data/mask/421/0000766_gtFine_polygons.json
```

```
inflating: data/mask/421/0000800_gtFine_polygons.json
inflating: data/mask/421/0000863_gtFine_polygons.json
inflating: data/mask/421/0000969_gtFine_polygons.json
inflating: data/mask/421/0001218_gtFine_polygons.json
inflating: data/mask/421/0001340_gtFine_polygons.json
inflating: data/mask/421/0001535_gtFine_polygons.json
inflating: data/mask/421/0001664_gtFine_polygons.json
inflating: data/mask/421/0001753_gtFine_polygons.json
inflating: data/mask/421/0001864_gtFine_polygons.json
inflating: data/mask/421/0002057_gtFine_polygons.json
inflating: data/mask/421/0002174_gtFine_polygons.json
inflating: data/mask/421/0002308_gtFine_polygons.json
inflating: data/mask/421/0002384_gtFine_polygons.json
inflating: data/mask/421/0002459_gtFine_polygons.json
inflating: data/mask/421/0002544_gtFine_polygons.json
inflating: data/mask/421/0002701_gtFine_polygons.json
inflating: data/mask/421/0002781_gtFine_polygons.json
inflating: data/mask/421/0002860_gtFine_polygons.json
inflating: data/mask/421/0002989_gtFine_polygons.json
inflating: data/mask/421/0003108_gtFine_polygons.json
inflating: data/mask/421/0003184_gtFine_polygons.json
inflating: data/mask/421/0003290_gtFine_polygons.json
inflating: data/mask/421/0003368_gtFine_polygons.json
inflating: data/mask/421/0003459_gtFine_polygons.json
inflating: data/mask/421/0003527_gtFine_polygons.json
inflating: data/mask/421/0003605_gtFine_polygons.json
inflating: data/mask/421/0003667_gtFine_polygons.json
inflating: data/mask/421/0003806_gtFine_polygons.json
inflating: data/mask/421/0004379_gtFine_polygons.json
inflating: data/mask/421/0004455_gtFine_polygons.json
inflating: data/mask/421/0004611_gtFine_polygons.json
inflating: data/mask/421/0004728_gtFine_polygons.json
inflating: data/mask/421/0004767_gtFine_polygons.json
inflating: data/mask/421/0004915_gtFine_polygons.json
inflating: data/mask/421/0005106_gtFine_polygons.json
inflating: data/mask/421/0005325_gtFine_polygons.json
inflating: data/mask/421/0005563_gtFine_polygons.json
inflating: data/mask/421/0005642_gtFine_polygons.json
inflating: data/mask/421/0005694_gtFine_polygons.json
inflating: data/mask/421/0005775_gtFine_polygons.json
inflating: data/mask/421/0006130_gtFine_polygons.json
inflating: data/mask/421/0006617_gtFine_polygons.json
inflating: data/mask/421/0006851_gtFine_polygons.json
inflating: data/mask/421/0007163_gtFine_polygons.json
inflating: data/mask/421/0007235_gtFine_polygons.json
```

```
inflating: data/mask/421/0007546_gtFine_polygons.json
inflating: data/mask/421/0008620_gtFine_polygons.json
inflating: data/mask/421/0010022_gtFine_polygons.json
inflating: data/mask/421/0010131_gtFine_polygons.json
inflating: data/mask/421/0010446_gtFine_polygons.json
inflating: data/mask/421/0010702_gtFine_polygons.json
inflating: data/mask/421/0010798_gtFine_polygons.json
inflating: data/mask/421/0010849_gtFine_polygons.json
inflating: data/mask/421/0011194_gtFine_polygons.json
inflating: data/mask/421/0011554_gtFine_polygons.json
inflating: data/mask/421/0011728_gtFine_polygons.json
inflating: data/mask/421/0012269_gtFine_polygons.json
inflating: data/mask/421/0012782_gtFine_polygons.json
inflating: data/mask/421/0012940_gtFine_polygons.json
inflating: data/mask/421/0013292_gtFine_polygons.json
inflating: data/mask/421/0013355_gtFine_polygons.json
inflating: data/mask/421/0013385_gtFine_polygons.json
inflating: data/mask/421/0013631_gtFine_polygons.json
inflating: data/mask/421/0013677_gtFine_polygons.json
inflating: data/mask/421/0013764_gtFine_polygons.json
inflating: data/mask/421/0013804_gtFine_polygons.json
inflating: data/mask/421/0013856_gtFine_polygons.json
inflating: data/mask/421/0013928_gtFine_polygons.json
inflating: data/mask/421/0013989_gtFine_polygons.json
inflating: data/mask/421/0014059_gtFine_polygons.json
inflating: data/mask/421/0014234_gtFine_polygons.json
inflating: data/mask/421/0014430_gtFine_polygons.json
inflating: data/mask/421/0014733_gtFine_polygons.json
inflating: data/mask/421/0014834_gtFine_polygons.json
inflating: data/mask/421/0014891_gtFine_polygons.json
inflating: data/mask/421/0014989_gtFine_polygons.json
inflating: data/mask/421/0015017_gtFine_polygons.json
inflating: data/mask/421/0015110_gtFine_polygons.json
inflating: data/mask/421/0015153_gtFine_polygons.json
inflating: data/mask/421/0015337_gtFine_polygons.json
inflating: data/mask/421/0015393_gtFine_polygons.json
inflating: data/mask/421/0015471_gtFine_polygons.json
inflating: data/mask/421/0015552_gtFine_polygons.json
inflating: data/mask/421/0015640_gtFine_polygons.json
    creating: data/mask/422/
inflating: data/mask/422/0000083_gtFine_polygons.json
inflating: data/mask/422/0000264_gtFine_polygons.json
inflating: data/mask/422/0000946_gtFine_polygons.json
inflating: data/mask/422/0001101_gtFine_polygons.json
inflating: data/mask/422/0001202_gtFine_polygons.json
```

```
inflating: data/mask/422/0001439_gtFine_polygons.json
inflating: data/mask/422/0001625_gtFine_polygons.json
inflating: data/mask/422/0001711_gtFine_polygons.json
inflating: data/mask/422/0001842_gtFine_polygons.json
inflating: data/mask/422/0002550_gtFine_polygons.json
inflating: data/mask/422/0002723_gtFine_polygons.json
inflating: data/mask/422/0002821_gtFine_polygons.json
inflating: data/mask/422/0003026_gtFine_polygons.json
inflating: data/mask/422/0003275_gtFine_polygons.json
inflating: data/mask/422/0003353_gtFine_polygons.json
inflating: data/mask/422/0003620_gtFine_polygons.json
inflating: data/mask/422/0003814_gtFine_polygons.json
inflating: data/mask/422/0004826_gtFine_polygons.json
inflating: data/mask/422/0005835_gtFine_polygons.json
inflating: data/mask/422/0006760_gtFine_polygons.json
inflating: data/mask/422/0007176_gtFine_polygons.json
inflating: data/mask/422/0007298_gtFine_polygons.json
inflating: data/mask/422/0007361_gtFine_polygons.json
inflating: data/mask/422/0007442_gtFine_polygons.json
inflating: data/mask/422/0007743_gtFine_polygons.json
inflating: data/mask/422/0007889_gtFine_polygons.json
inflating: data/mask/422/0008035_gtFine_polygons.json
  creating: data/mask/423/
inflating: data/mask/423/frame0007_gtFine_polygons.json
inflating: data/mask/423/frame0999_gtFine_polygons.json
inflating: data/mask/423/frame12699_gtFine_polygons.json
inflating: data/mask/423/frame5607_gtFine_polygons.json
inflating: data/mask/423/frame7487_gtFine_polygons.json
inflating: data/mask/423/frame7987_gtFine_polygons.json
inflating: data/mask/423/frame8397_gtFine_polygons.json
inflating: data/mask/423/frame8847_gtFine_polygons.json
inflating: data/mask/423/frame9927_gtFine_polygons.json
  creating: data/mask/424/
inflating: data/mask/424/frame0349_gtFine_polygons.json
inflating: data/mask/424/frame0499_gtFine_polygons.json
inflating: data/mask/424/frame0799_gtFine_polygons.json
inflating: data/mask/424/frame0924_gtFine_polygons.json
inflating: data/mask/424/frame1149_gtFine_polygons.json
  creating: data/mask/426/
inflating: data/mask/426/0000000_gtFine_polygons.json
inflating: data/mask/426/0000343_gtFine_polygons.json
inflating: data/mask/426/0000454_gtFine_polygons.json
inflating: data/mask/426/0000639_gtFine_polygons.json
  creating: data/mask/428/
inflating: data/mask/428/frame0359_gtFine_polygons.json
```

```
inflating: data/mask/428/frame0839_gtFine_polygons.json
inflating: data/mask/428/frame0959_gtFine_polygons.json
inflating: data/mask/428/frame1079_gtFine_polygons.json
inflating: data/mask/428/frame1199_gtFine_polygons.json
inflating: data/mask/428/frame1319_gtFine_polygons.json
inflating: data/mask/428/frame1439_gtFine_polygons.json
inflating: data/mask/428/frame1559_gtFine_polygons.json
inflating: data/mask/428/frame1679_gtFine_polygons.json
inflating: data/mask/428/frame1799_gtFine_polygons.json
inflating: data/mask/428/frame2039_gtFine_polygons.json
inflating: data/mask/428/frame3119_gtFine_polygons.json
inflating: data/mask/428/frame3359_gtFine_polygons.json
inflating: data/mask/428/frame3479_gtFine_polygons.json
inflating: data/mask/428/frame3599_gtFine_polygons.json
inflating: data/mask/428/frame3719_gtFine_polygons.json
inflating: data/mask/428/frame3839_gtFine_polygons.json
inflating: data/mask/428/frame3959_gtFine_polygons.json
    creating: data/mask/429/
inflating: data/mask/429/frame10303_gtFine_polygons.json
inflating: data/mask/429/frame13262_gtFine_polygons.json
inflating: data/mask/429/frame13699_gtFine_polygons.json
inflating: data/mask/429/frame15812_gtFine_polygons.json
inflating: data/mask/429/frame18062_gtFine_polygons.json
inflating: data/mask/429/frame18403_gtFine_polygons.json
```

## Task 1: Preprocessing

### 1. Get all the file name and corresponding json files

```
In [ ]: # all_files=[]
# image_file = []
# json_file = []
# file_fst = []
# file_sec = []
```

```
In [ ]: def return_file_names_df(root_dir):
    all_files=[]

    for i in os.listdir(root_dir+'/images'):
        all_files.append(i)
```

```
image_file = []
json_file = []

for A in all_files:
    file_fst = []
    file_sec = []

    for a in os.listdir(root_dir+'/images/'+A):
        file_fst.append(a)
    file_fst.sort()
    for b in file_fst:
        image_file.append('data/images/'+A+'/'+b)
    for c in os.listdir(root_dir+'/mask/'+A):
        file_sec.append(c)
    file_sec.sort()
    for d in file_sec:
        json_file.append('data/mask/'+A+'/'+d)

data = {
'image': [],
'json': []
}
data_df_ = pd.DataFrame(data)
data_df_['image']=image_file
data_df_['json']=json_file
return data_df_
```

```
In [ ]: import math
from PIL import Image, ImageDraw
from PIL import ImagePath
import pandas as pd
import os
from os import path
from tqdm import tqdm
import json
import cv2
import numpy as np
import matplotlib.pyplot as plt
import urllib
```

```
In [ ]: data_df = return_file_names_df('/content/data')
```

```
data_df.head()
```

```
Out[ ]:
```

	image	json
0	data/images/267/frame0393_leftImg8bit.jpg	data/mask/267/frame0393_gtFine_polygons.json
1	data/images/267/frame0633_leftImg8bit.jpg	data/mask/267/frame0633_gtFine_polygons.json
2	data/images/267/frame0813_leftImg8bit.jpg	data/mask/267/frame0813_gtFine_polygons.json
3	data/images/267/frame0933_leftImg8bit.jpg	data/mask/267/frame0933_gtFine_polygons.json
4	data/images/267/frame1413_leftImg8bit.jpg	data/mask/267/frame1413_gtFine_polygons.json

If you observe the dataframe, we can consider each row as single data point, where first feature is image and the second feature is corresponding json file

```
In [ ]: def grader_1(data_df):  
    for i in data_df.values:  
        if not (path.isfile(i[0]) and path.isfile(i[1]) and i[0][12:i[0].find('_')] == i[1][10:i[1].find('_')]):  
            return False  
    return True
```

```
In [ ]: grader_1(data_df)
```

```
Out[ ]: True
```

```
In [ ]: data_df.shape
```

```
Out[ ]: (4008, 2)
```

## 2. Structure of sample Json file

```
"imgHeight": 1080,  
"imgWidth": 1920,  
"objects": [  
    {  
        "date": "25-Jun-2019 23:13:12",  
        "deleted": 0,  
        "draw": true,  
        "id": 0,  
        "label": "sky",  
        "polygon": [  
            [  
                [0.0,  
                 556.1538461538462],  
                [  
                    [810.0,  
                     565.3846153846154],  
                    [  
                        [1374.2307692307693,  
                         596.5384615384615],  
                        [  
                            [1919.0,  
                             639.2307692307692],  
                            [  
                                [1919.0,  
                                 0.0],  
                                [  
                                    [0.0,  
                                     0.0]  
                                ]],  
                            ],  
                            "user": "cvit",  
                            "verified": 0  
                        },  
                    ]  
                ]  
            ]  
        ]  
    }]
```

- Each File will have 3 attributes
  - imgHeight: which tells the height of the image
  - imgWidth: which tells the width of the image
  - objects: it is a list of objects, each object will have multiple attributes,
    - label: the type of the object
    - polygon: a list of two element lists, representing the coordinates of the polygon

## Compute the unique labels

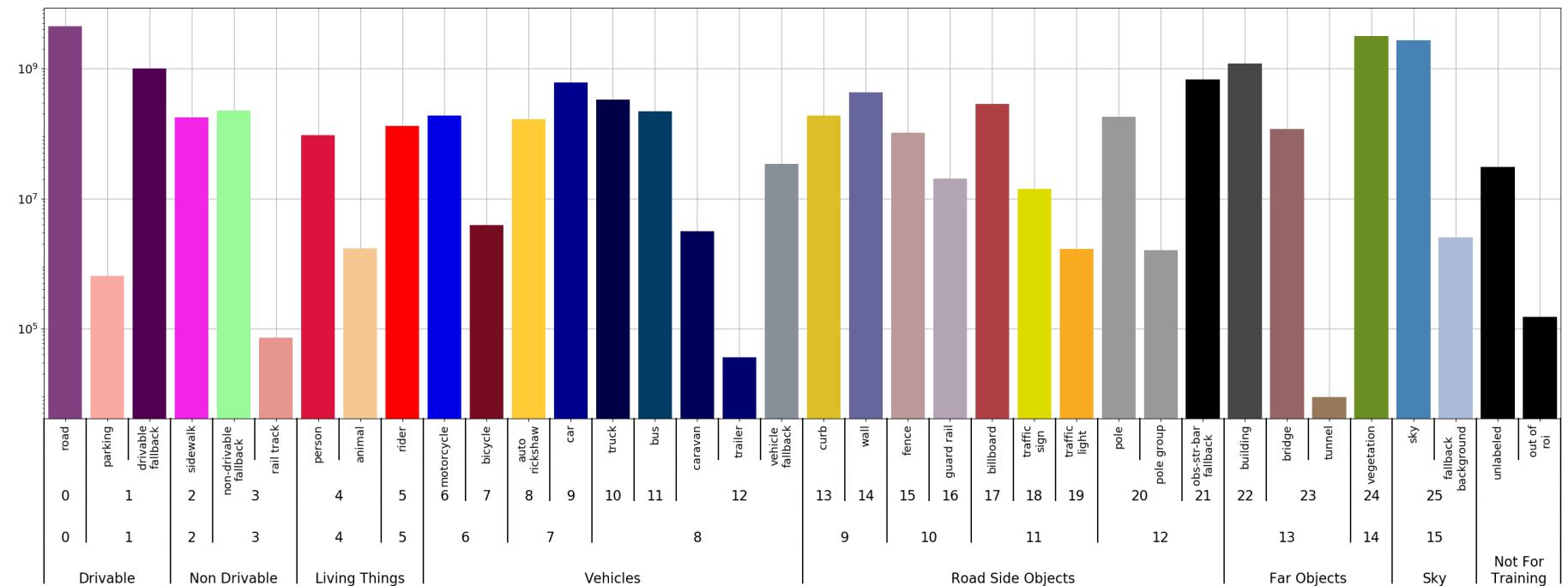
Let's see how many unique objects are there in the json file. to see how to get the object from the json file please check [this blog](#)

```
In [ ]: data_df.shape[0]
```

```
Out[ ]: 4008
```

```
In [ ]: def return_unique_labels(data_df):
    uni_lst = []
    for j in range(data_df.shape[0]): # for each file in the column json
        x = data_df.json[j] # read and store all the objects present in that file
        f = open(x)
        data = json.load(f) # compute the unique objects and retrun them
        for j in data['objects']:
            uni_lst.append(j['label'])
        f.close()
    unique_labels = set(uni_lst) # if open any json file using any editor you will get better sense of it
    return unique_labels
```

```
In [ ]: unique_labels = return_unique_labels(data_df)
```



```
In [ ]: label_clr = {'road':10, 'parking':20, 'drivable fallback':20,'sidewalk':30,'non-drivable fallback':40,'rail track':40,\n                 'person':50, 'animal':50, 'rider':60, 'motorcycle':70, 'bicycle':70, 'autorickshaw':80,\n                 'vehi...
```

```
'car':80, 'truck':90, 'bus':90, 'vehicle fallback':90, 'trailer':90, 'caravan':90,\n'curb':100, 'wall':100, 'fence':110,'guard rail':110, 'billboard':120,'traffic sign':120,\n'traffic light':120, 'pole':130, 'polegroup':130, 'obs-str-bar-fallback':130,'building':140,\n'bridge':140,'tunnel':140, 'vegetation':150, 'sky':160, 'fallback background':160,'unlabeled\n'out of roi':0, 'ego vehicle':170, 'ground':180,'rectification border':190,\n'train':200}
```

```
In [ ]: def grader_2(unique_labels):\n    if (not (set(label_clr.keys())-set(unique_labels))) and len(unique_labels) == 40:\n        print("True")\n    else:\n        print("False")\n\ngrader_2(unique_labels)
```

True

```
* here we have given a number for each of object types, if you see we are having 21 different set of\nobjects\n* Note that we have multiplies each object's number with 10, that is just to make different objects\nlook differently in the segmentation map\n* Before you pass it to the models, you might need to devide the image array /10.
```

### 3. Extracting the polygons from the json files

```
In [ ]: # lab = []\n# poly = []\n# label = []\n# vertexlist = []
```

```
#refrence taken from https://www.geeksforgeeks.org/read-json-file-using-python/\n#refrence also taken from https://www.geeksforgeeks.org/python-convert-a-list-into-a-tuple/\n# this function will take a file name as argument\n# it will process all the objects in that file and returns\n#make changes\ndef get_poly(file):\n    label1=[]\n    vertexlist1=[]\n    import json
```

```

f = open(file)
data = json.load(f)
for i in data['objects']:
    label1.append(i['label'])
    vertexlist1.append(i['polygon'])
w=data['imgWidth']
h=data['imgHeight']
f.close()
vertexlist=[]
label=[]
for j,k in enumerate(vertexlist1):
    list1=[]
    if len(k)!=0 and len(k)>1:
        for l,m in enumerate(k):
            test=tuple(m)
            list1.append(test)
        vertexlist.append(list1)
        label.append(label1[j])
    else:
        break
return w, h, label, vertexlist

```

```

In [ ]: # def get_poly(file):
#         # this function will take a file name as argument

#         # it will process all the objects in that file and returns

#         # label: a list of labels for all the objects label[i] will have the corresponding vertices in vertexlist[i]
#         # len(label) == number of objects in the image

#         # vertexlist: it should be list of list of vertices in tuple formate
#         # ex: [[(x11,y11), (x12,y12), (x13,y13) .. (x1n,y1n)]
#         #             [(x21,y21), (x22,y12), (x23,y23) .. (x2n,y2n)]
#         #
#             .....
#             [(xm1,ym1), (xm2,ym2), (xm3,ym3) .. (xmnn,ymnn)]]
#         # len(vertexlist) == number of objects in the image

#         # * note that label[i] and vertexlist[i] are corresponds to the same object, one represents the type of the object
#         # the other represents the location

#         # width of the image

```

```
#      # height of the image
#      return w, h, label, vertexlist
```

```
In [ ]: def grader_3(file):
    w, h, labels, vertexlist = get_poly(file)
    print(len(set(labels))==18 and len(vertexlist)==227 and w==1920 and h==1080 \
          and isinstance(vertexlist,list) and isinstance(vertexlist[0],list) and isinstance(vertexlist[0][0],tuple) )

grader_3('data/mask/201/frame0029_gtFine_polygons.json')
```

True

## 4. Creating Image segmentations by drawing set of polygons

### Example

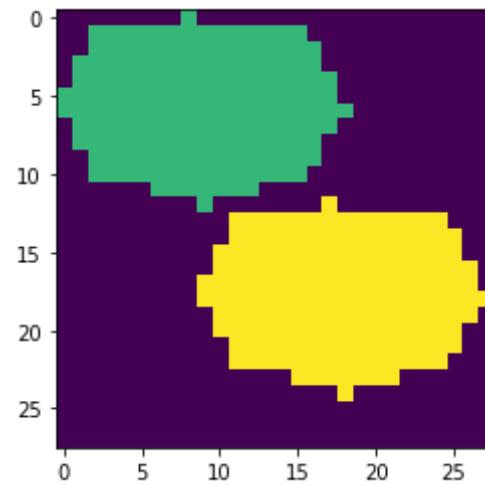
```
In [ ]: import math
from PIL import Image, ImageDraw
from PIL import ImagePath
side=8
x1 = [ ((math.cos(th) + 1) *9, (math.sin(th) + 1) * 6) for th in [i * (2 * math.pi) / side for i in range(side)] ]
x2 = [ ((math.cos(th) + 2) *9, (math.sin(th) + 3) *6) for th in [i * (2 * math.pi) / side for i in range(side)] ]

img = Image.new("RGB", (28,28))
img1 = ImageDraw.Draw(img)
# please play with the fill value
# writing the first polygon
img1.polygon(x1, fill =20)
# writing the second polygon
img1.polygon(x2, fill =30)

img=np.array(img)
# note that the filling of the values happens at the channel 1, so we are considering only the first channel here
plt.imshow(img[:, :, 0])
print(img.shape)
print(img[:, :, 0]//10)
im = Image.fromarray(img[:, :, 0])
im.save("test_image.png")
```

(28, 28, 3)  
[[0 0 0 0 0 0 0 2 0]]

```
[0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]
[0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]
[0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]
[0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0]
[2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0]
[2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0]
[0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0]
[0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0]
[0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0]
[0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0]
[0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0]
[0 0 0 0 0 0 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]
[0 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]
[0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0]
[0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0]
[0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0]
[0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0]
[0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0]
[0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0]
[0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0]
[0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0]
[0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0]
[0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0]
[0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0]
[0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0]
[0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0]
[0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0]
```



```
In [ ]: import urllib.request
```

```
In [ ]: #reference taken as
def compute_masks(data_df):
    path = []
    os.mkdir('/content/data/output')
    for i in data_df.json:
        lst = []
        lst = i.split('/')
        lst[0] = lst[0]
        lst[1] = '/output/'
        lst_1 = lst[3].split('.')
        lst[3]= '/' + lst_1[0]
        lst.append('.png')
        w, h, label, vertexlist = get_poly(i)
        img = Image.new("RGB", (1920, 1080))
        img1 = ImageDraw.Draw(img)
        for j in range(len(vertexlist)):
            img1.polygon(vertexlist[j], fill = label_clr[label[j]])
        img = np.array(img)
        img = img[:, :, 0]
        im = Image.fromarray(img)
        if lst[2] not in os.listdir('/content/data/output/'):
            os.mkdir('/content/data/output/' + lst[2])
        im.save(''.join(lst))
        path.append(''.join(lst))
    data_df['mask'] = path
    return data_df
```

```
In [ ]: # def compute_masks(data_df):
#     # after you have computed the vertexlist plot that polygone in image like this

#     # img = Image.new("RGB", (w, h))
#     # img1 = ImageDraw.Draw(img)
#     # img1.polygon(vertexlist[i], fill = label_clr[label[i]])

#     # after drawing all the polygons that we collected from json file,
#     # you need to store that image in the folder like this "data/output/scene/framenumber_gtFine_polygons.png"

#     # after saving the image into disk, store the path in a list
#     # after storing all the paths, add a column to the data_df['mask'] ex: data_df['mask']= mask_paths
```

```
#      return data_df
```

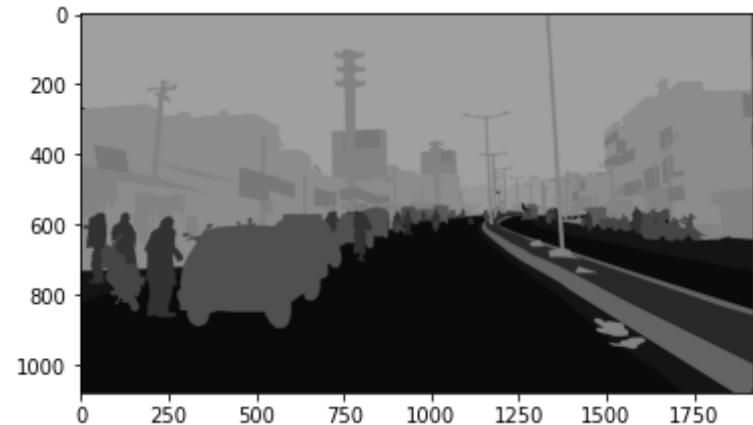
```
In [ ]: data_df = compute_masks(data_df)
data_df.head()
```

```
Out[ ]:
```

	image	json	mask
0	data/images/267/frame0393_leftImg8bit.jpg	data/mask/267/frame0393_gtFine_polygons.json	data/output/267/frame0393_gtFine_polygons.png
1	data/images/267/frame0633_leftImg8bit.jpg	data/mask/267/frame0633_gtFine_polygons.json	data/output/267/frame0633_gtFine_polygons.png
2	data/images/267/frame0813_leftImg8bit.jpg	data/mask/267/frame0813_gtFine_polygons.json	data/output/267/frame0813_gtFine_polygons.png
3	data/images/267/frame0933_leftImg8bit.jpg	data/mask/267/frame0933_gtFine_polygons.json	data/output/267/frame0933_gtFine_polygons.png
4	data/images/267/frame1413_leftImg8bit.jpg	data/mask/267/frame1413_gtFine_polygons.json	data/output/267/frame1413_gtFine_polygons.png

```
In [ ]: def grader_3():
    url = "https://i.imgur.com/4XSULHk.png"
    url_response = urllib.request.urlopen(url)
    img_array = np.array(bytearray(url_response.read()), dtype=np.uint8)
    img = cv2.imdecode(img_array, -1)
    my_img = cv2.imread('data/output/201/frame0029_gtFine_polygons.png')
    plt.imshow(my_img)
    print((my_img[:, :, 0]==img).all())
    print(np.unique(img))
    print(np.unique(my_img[:, :, 0]))
    data_df.to_csv('preprocessed_data.csv', index=False)
grader_3()
```

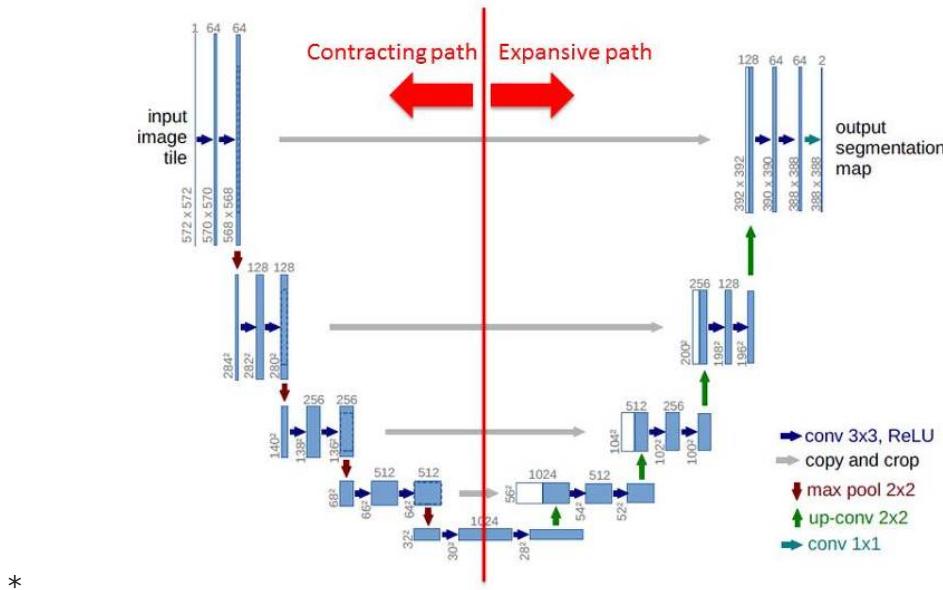
```
False
[ 0 10 20 40 50 60 70 80 90 100 120 130 140 150 160]
[ 0 10 20 40 50 60 70 80 90 100 120 130 140 150 160]
```



## Task 2: Applying Unet to segment the images

\* please check the paper: <https://arxiv.org/abs/1505.04597>

# Network Architecture



- \* As a part of this assignment we won't writingt this whole architecture, rather we will be doing transfer learning
- \* please check the library [https://github.com/qubvel/segmentation\\_models](https://github.com/qubvel/segmentation_models)
- \* You can install it like this "pip install -U segmentation-models==0.2.1", even in google colab you can install the same with "!pip install -U segmentation-models==0.2.1"
- \* Check the reference notebook in which we have solved one end to end case study of image forgery detection using same unet
- \* The number of channels in the output will depend on the number of classes in your data, since we know that we are having 21 classes, the number of channels in the output will also be 21
- \* **This is where we want you to explore, how do you featurize your created segmentation map note that**

the original map will be of (w, h, 1) and the output will be (w, h, 21) how will you calculate the loss, you can check the examples in segmentation github

\* please use the loss function that is used in the refence notebooks

```
In [ ]: import tensorflow as tf
# tf.enable_eager_execution()
import os
import numpy as np
import pandas as pd
import cv2
import matplotlib.pyplot as plt
# from hilbert import hilbertCurve
import imgaug.augmenters as iaa
import numpy as np
# import albumentations as A
os.environ['TF_FORCE_GPU_ALLOW_GROWTH'] = 'true'
```

```
In [ ]: from tensorflow.keras import layers
from tensorflow.compat.v1.keras.layers import CuDNNLSTM
from tensorflow.keras.layers import Dense, Input, Conv2D, MaxPool2D, Activation, Dropout, Flatten, BatchNormalization, ReLU
from tensorflow.keras.models import Model
import random as rn
```

```
In [ ]: !pip install imgaug
```

```
Requirement already satisfied: imgaug in /usr/local/lib/python3.7/dist-packages (0.2.9)
Requirement already satisfied: opencv-python in /usr/local/lib/python3.7/dist-packages (from imgaug) (4.1.2.30)
Requirement already satisfied: six in /usr/local/lib/python3.7/dist-packages (from imgaug) (1.15.0)
Requirement already satisfied: imageio in /usr/local/lib/python3.7/dist-packages (from imgaug) (2.4.1)
Requirement already satisfied: numpy>=1.15.0 in /usr/local/lib/python3.7/dist-packages (from imgaug) (1.19.5)
Requirement already satisfied: Shapely in /usr/local/lib/python3.7/dist-packages (from imgaug) (1.7.1)
Requirement already satisfied: scikit-image>=0.11.0 in /usr/local/lib/python3.7/dist-packages (from imgaug) (0.16.2)
Requirement already satisfied: scipy in /usr/local/lib/python3.7/dist-packages (from imgaug) (1.4.1)
Requirement already satisfied: matplotlib in /usr/local/lib/python3.7/dist-packages (from imgaug) (3.2.2)
Requirement already satisfied: Pillow in /usr/local/lib/python3.7/dist-packages (from imgaug) (7.1.2)
Requirement already satisfied: PyWavelets>=0.4.0 in /usr/local/lib/python3.7/dist-packages (from scikit-image>=0.11.0->imgaug) (1.1.1)
Requirement already satisfied: networkx>=2.0 in /usr/local/lib/python3.7/dist-packages (from scikit-image>=0.11.0->imgaug) (2.5.1)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib->imgaug)
```

```
(1.3.1)
Requirement already satisfied: python-dateutil>=2.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib->imgaug) (2.8.1)
Requirement already satisfied: pyparsing!=2.0.4,!>=2.1.2,!>=2.1.6,>=2.0.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib->imgaug) (2.4.7)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.7/dist-packages (from matplotlib->imgaug) (0.10.0)
Requirement already satisfied: decorator<5,>=4.3 in /usr/local/lib/python3.7/dist-packages (from networkx>=2.0->scikit-image>=0.11.0->imgaug) (4.4.2)
```

```
In [ ]: from tensorflow.keras.layers import Flatten
        from sklearn.model_selection import train_test_split
```

```
In [ ]: # # here dir_path is the route directory where all the images and segmentation maps are there
        # dir_path = "900_images"
        # file_names = set()
        # for i in os.listdir(dir_path):
        #     file_names.add(i.split('.')[0])
```

```
In [ ]: X_train, X_test = train_test_split(data_df[['image','mask']], test_size=0.2, random_state=42)
```

```
In [ ]: !pip install -U segmentation-models
```

```
Collecting segmentation-models
  Downloading segmentation_models-1.0.1-py3-none-any.whl (33 kB)
Collecting efficientnet==1.0.0
  Downloading efficientnet-1.0.0-py3-none-any.whl (17 kB)
Collecting image-classifiers==1.0.0
  Downloading image_classifiers-1.0.0-py3-none-any.whl (19 kB)
Collecting keras-applications<=1.0.8,>=1.0.7
  Downloading Keras_Applications-1.0.8-py3-none-any.whl (50 kB)
|██████████| 50 kB 4.9 MB/s
Requirement already satisfied: scikit-image in /usr/local/lib/python3.7/dist-packages (from efficientnet==1.0.0->segmentation-models) (0.16.2)
Requirement already satisfied: numpy>=1.9.1 in /usr/local/lib/python3.7/dist-packages (from keras-applications<=1.0.8,>=1.0.7->segmentation-models) (1.19.5)
Requirement already satisfied: h5py in /usr/local/lib/python3.7/dist-packages (from keras-applications<=1.0.8,>=1.0.7->segmentation-models) (3.1.0)
Requirement already satisfied: cached-property in /usr/local/lib/python3.7/dist-packages (from h5py->keras-applications<=1.0.8,>=1.0.7->segmentation-models) (1.5.2)
Requirement already satisfied: networkx>=2.0 in /usr/local/lib/python3.7/dist-packages (from scikit-image->efficientnet==1.0.0->segmentation-models) (2.5.1)
Requirement already satisfied: PyWavelets>=0.4.0 in /usr/local/lib/python3.7/dist-packages (from scikit-image->effici
```

```
entnet==1.0.0->segmentation-models) (1.1.1)
Requirement already satisfied: imageio>=2.3.0 in /usr/local/lib/python3.7/dist-packages (from scikit-image->efficientnet==1.0.0->segmentation-models) (2.4.1)
Requirement already satisfied: pillow>=4.3.0 in /usr/local/lib/python3.7/dist-packages (from scikit-image->efficientnet==1.0.0->segmentation-models) (7.1.2)
Requirement already satisfied: matplotlib!=3.0.0,>=2.0.0 in /usr/local/lib/python3.7/dist-packages (from scikit-image->efficientnet==1.0.0->segmentation-models) (3.2.2)
Requirement already satisfied: scipy>=0.19.0 in /usr/local/lib/python3.7/dist-packages (from scikit-image->efficientnet==1.0.0->segmentation-models) (1.4.1)
Requirement already satisfied: python-dateutil>=2.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib!=3.0.0,>=2.0.0->scikit-image->efficientnet==1.0.0->segmentation-models) (2.8.1)
Requirement already satisfied: pyparsing!=2.0.4,!>=2.1.2,!>=2.1.6,>=2.0.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib!=3.0.0,>=2.0.0->scikit-image->efficientnet==1.0.0->segmentation-models) (2.4.7)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib!=3.0.0,>=2.0.0->scikit-image->efficientnet==1.0.0->segmentation-models) (1.3.1)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.7/dist-packages (from matplotlib!=3.0.0,>=2.0.0->scikit-image->efficientnet==1.0.0->segmentation-models) (0.10.0)
Requirement already satisfied: six in /usr/local/lib/python3.7/dist-packages (from cycler>=0.10->matplotlib!=3.0.0,>=2.0.0->scikit-image->efficientnet==1.0.0->segmentation-models) (1.15.0)
Requirement already satisfied: decorator<5,>=4.3 in /usr/local/lib/python3.7/dist-packages (from networkx>=2.0->scikit-image->efficientnet==1.0.0->segmentation-models) (4.4.2)
Installing collected packages: keras-applications, image-classifiers, efficientnet, segmentation-models
Successfully installed efficientnet-1.0.0 image-classifiers-1.0.0 keras-applications-1.0.8 segmentation-models-1.0.1
```

```
In [ ]: import segmentation_models as sm
from segmentation_models.metrics import iou_score
from segmentation_models.metrics import IOUScore
from segmentation_models import Unet
```

Segmentation Models: using `keras` framework.

```
In [ ]: # # we are importing the pretrained unet from the segmentation models
# # https://github.com/qubvel/segmentation_models
# import segmentation_models as sm
# from segmentation_models import Unet
# # sm.set_framework('tf.keras')
# tf.keras.backend.set_image_data_format('channels_last')
```

```
In [ ]: # we are importing the pretrained unet from the segmentation models
# https://github.com/qubvel/segmentation_models
SM_FRAMEWORK=tf.keras
import segmentation_models as sm
sm.set_framework('tf.keras')
```

```
from segmentation_models import Unet
tf.keras.backend.set_image_data_format('channels_last')
```

```
In [ ]: # loading the unet model and using the resnet 34 and initialized weights with imagenet weights
# "classes" :different types of classes in the dataset
model = Unet('resnet34', encoder_weights='imagenet', classes=21, activation='softmax',encoder_freeze=True, input_shape=(512, 512, 3))

Downloading data from https://github.com/qubvel/classification_models/releases/download/0.0.1/resnet34_imagenet_1000_
no_top.h5
85524480/85521592 [=====] - 2s 0us/step
```

```
In [ ]: model.summary()
```

Model: "model\_1"

Layer (type)	Output Shape	Param #	Connected to
data (InputLayer)	[None, 512, 512, 3]	0	
bn_data (BatchNormalization)	(None, 512, 512, 3)	9	data[0][0]
zero_padding2d (ZeroPadding2D)	(None, 518, 518, 3)	0	bn_data[0][0]
conv0 (Conv2D)	(None, 256, 256, 64)	9408	zero_padding2d[0][0]
bn0 (BatchNormalization)	(None, 256, 256, 64)	256	conv0[0][0]
relu0 (Activation)	(None, 256, 256, 64)	0	bn0[0][0]
zero_padding2d_1 (ZeroPadding2D)	(None, 258, 258, 64)	0	relu0[0][0]
pooling0 (MaxPooling2D)	(None, 128, 128, 64)	0	zero_padding2d_1[0][0]
stage1_unit1_bn1 (BatchNormaliz	(None, 128, 128, 64)	256	pooling0[0][0]
stage1_unit1_relu1 (Activation)	(None, 128, 128, 64)	0	stage1_unit1_bn1[0][0]
zero_padding2d_2 (ZeroPadding2D)	(None, 130, 130, 64)	0	stage1_unit1_relu1[0][0]
stage1_unit1_conv1 (Conv2D)	(None, 128, 128, 64)	36864	zero_padding2d_2[0][0]
stage1_unit1_bn2 (BatchNormaliz	(None, 128, 128, 64)	256	stage1_unit1_conv1[0][0]
stage1_unit1_relu2 (Activation)	(None, 128, 128, 64)	0	stage1_unit1_bn2[0][0]

zero_padding2d_3 (ZeroPadding2D (None, 130, 130, 64) 0		stage1_unit1_relu2[0][0]
stage1_unit1_conv2 (Conv2D) (None, 128, 128, 64) 36864		zero_padding2d_3[0][0]
stage1_unit1_sc (Conv2D) (None, 128, 128, 64) 4096		stage1_unit1_relu1[0][0]
add (Add) (None, 128, 128, 64) 0		stage1_unit1_conv2[0][0] stage1_unit1_sc[0][0]
stage1_unit2_bn1 (BatchNormaliz (None, 128, 128, 64) 256		add[0][0]
stage1_unit2_relu1 (Activation) (None, 128, 128, 64) 0		stage1_unit2_bn1[0][0]
zero_padding2d_4 (ZeroPadding2D (None, 130, 130, 64) 0		stage1_unit2_relu1[0][0]
stage1_unit2_conv1 (Conv2D) (None, 128, 128, 64) 36864		zero_padding2d_4[0][0]
stage1_unit2_bn2 (BatchNormaliz (None, 128, 128, 64) 256		stage1_unit2_conv1[0][0]
stage1_unit2_relu2 (Activation) (None, 128, 128, 64) 0		stage1_unit2_bn2[0][0]
zero_padding2d_5 (ZeroPadding2D (None, 130, 130, 64) 0		stage1_unit2_relu2[0][0]
stage1_unit2_conv2 (Conv2D) (None, 128, 128, 64) 36864		zero_padding2d_5[0][0]
add_1 (Add) (None, 128, 128, 64) 0		stage1_unit2_conv2[0][0] add[0][0]
stage1_unit3_bn1 (BatchNormaliz (None, 128, 128, 64) 256		add_1[0][0]
stage1_unit3_relu1 (Activation) (None, 128, 128, 64) 0		stage1_unit3_bn1[0][0]
zero_padding2d_6 (ZeroPadding2D (None, 130, 130, 64) 0		stage1_unit3_relu1[0][0]
stage1_unit3_conv1 (Conv2D) (None, 128, 128, 64) 36864		zero_padding2d_6[0][0]
stage1_unit3_bn2 (BatchNormaliz (None, 128, 128, 64) 256		stage1_unit3_conv1[0][0]
stage1_unit3_relu2 (Activation) (None, 128, 128, 64) 0		stage1_unit3_bn2[0][0]
zero_padding2d_7 (ZeroPadding2D (None, 130, 130, 64) 0		stage1_unit3_relu2[0][0]
stage1_unit3_conv2 (Conv2D) (None, 128, 128, 64) 36864		zero_padding2d_7[0][0]

add_2 (Add)	(None, 128, 128, 64) 0	stage1_unit3_conv2[0][0] add_1[0][0]
stage2_unit1_bn1 (BatchNormaliz	(None, 128, 128, 64) 256	add_2[0][0]
stage2_unit1_relu1 (Activation)	(None, 128, 128, 64) 0	stage2_unit1_bn1[0][0]
zero_padding2d_8 (ZeroPadding2D)	(None, 130, 130, 64) 0	stage2_unit1_relu1[0][0]
stage2_unit1_conv1 (Conv2D)	(None, 64, 64, 128) 73728	zero_padding2d_8[0][0]
stage2_unit1_bn2 (BatchNormaliz	(None, 64, 64, 128) 512	stage2_unit1_conv1[0][0]
stage2_unit1_relu2 (Activation)	(None, 64, 64, 128) 0	stage2_unit1_bn2[0][0]
zero_padding2d_9 (ZeroPadding2D)	(None, 66, 66, 128) 0	stage2_unit1_relu2[0][0]
stage2_unit1_conv2 (Conv2D)	(None, 64, 64, 128) 147456	zero_padding2d_9[0][0]
stage2_unit1_sc (Conv2D)	(None, 64, 64, 128) 8192	stage2_unit1_relu1[0][0]
add_3 (Add)	(None, 64, 64, 128) 0	stage2_unit1_conv2[0][0] stage2_unit1_sc[0][0]
stage2_unit2_bn1 (BatchNormaliz	(None, 64, 64, 128) 512	add_3[0][0]
stage2_unit2_relu1 (Activation)	(None, 64, 64, 128) 0	stage2_unit2_bn1[0][0]
zero_padding2d_10 (ZeroPadding2	(None, 66, 66, 128) 0	stage2_unit2_relu1[0][0]
stage2_unit2_conv1 (Conv2D)	(None, 64, 64, 128) 147456	zero_padding2d_10[0][0]
stage2_unit2_bn2 (BatchNormaliz	(None, 64, 64, 128) 512	stage2_unit2_conv1[0][0]
stage2_unit2_relu2 (Activation)	(None, 64, 64, 128) 0	stage2_unit2_bn2[0][0]
zero_padding2d_11 (ZeroPadding2	(None, 66, 66, 128) 0	stage2_unit2_relu2[0][0]
stage2_unit2_conv2 (Conv2D)	(None, 64, 64, 128) 147456	zero_padding2d_11[0][0]
add_4 (Add)	(None, 64, 64, 128) 0	stage2_unit2_conv2[0][0] add_3[0][0]
stage2_unit3_bn1 (BatchNormaliz	(None, 64, 64, 128) 512	add_4[0][0]

stage2_unit3_relu1 (Activation) (None, 64, 64, 128) 0		stage2_unit3_bn1[0][0]
zero_padding2d_12 (ZeroPadding2 (None, 66, 66, 128) 0		stage2_unit3_relu1[0][0]
stage2_unit3_conv1 (Conv2D) (None, 64, 64, 128) 147456		zero_padding2d_12[0][0]
stage2_unit3_bn2 (BatchNormaliz (None, 64, 64, 128) 512		stage2_unit3_conv1[0][0]
stage2_unit3_relu2 (Activation) (None, 64, 64, 128) 0		stage2_unit3_bn2[0][0]
zero_padding2d_13 (ZeroPadding2 (None, 66, 66, 128) 0		stage2_unit3_relu2[0][0]
stage2_unit3_conv2 (Conv2D) (None, 64, 64, 128) 147456		zero_padding2d_13[0][0]
add_5 (Add) (None, 64, 64, 128) 0		stage2_unit3_conv2[0][0] add_4[0][0]
stage2_unit4_bn1 (BatchNormaliz (None, 64, 64, 128) 512		add_5[0][0]
stage2_unit4_relu1 (Activation) (None, 64, 64, 128) 0		stage2_unit4_bn1[0][0]
zero_padding2d_14 (ZeroPadding2 (None, 66, 66, 128) 0		stage2_unit4_relu1[0][0]
stage2_unit4_conv1 (Conv2D) (None, 64, 64, 128) 147456		zero_padding2d_14[0][0]
stage2_unit4_bn2 (BatchNormaliz (None, 64, 64, 128) 512		stage2_unit4_conv1[0][0]
stage2_unit4_relu2 (Activation) (None, 64, 64, 128) 0		stage2_unit4_bn2[0][0]
zero_padding2d_15 (ZeroPadding2 (None, 66, 66, 128) 0		stage2_unit4_relu2[0][0]
stage2_unit4_conv2 (Conv2D) (None, 64, 64, 128) 147456		zero_padding2d_15[0][0]
add_6 (Add) (None, 64, 64, 128) 0		stage2_unit4_conv2[0][0] add_5[0][0]
stage3_unit1_bn1 (BatchNormaliz (None, 64, 64, 128) 512		add_6[0][0]
stage3_unit1_relu1 (Activation) (None, 64, 64, 128) 0		stage3_unit1_bn1[0][0]
zero_padding2d_16 (ZeroPadding2 (None, 66, 66, 128) 0		stage3_unit1_relu1[0][0]
stage3_unit1_conv1 (Conv2D) (None, 32, 32, 256) 294912		zero_padding2d_16[0][0]
stage3_unit1_bn2 (BatchNormaliz (None, 32, 32, 256) 1024		stage3_unit1_conv1[0][0]

stage3_unit1_relu2 (Activation)	(None, 32, 32, 256)	0	stage3_unit1_bn2[0][0]
zero_padding2d_17 (ZeroPadding2)	(None, 34, 34, 256)	0	stage3_unit1_relu2[0][0]
stage3_unit1_conv2 (Conv2D)	(None, 32, 32, 256)	589824	zero_padding2d_17[0][0]
stage3_unit1_sc (Conv2D)	(None, 32, 32, 256)	32768	stage3_unit1_relu1[0][0]
add_7 (Add)	(None, 32, 32, 256)	0	stage3_unit1_conv2[0][0] stage3_unit1_sc[0][0]
stage3_unit2_bn1 (BatchNormaliz)	(None, 32, 32, 256)	1024	add_7[0][0]
stage3_unit2_relu1 (Activation)	(None, 32, 32, 256)	0	stage3_unit2_bn1[0][0]
zero_padding2d_18 (ZeroPadding2)	(None, 34, 34, 256)	0	stage3_unit2_relu1[0][0]
stage3_unit2_conv1 (Conv2D)	(None, 32, 32, 256)	589824	zero_padding2d_18[0][0]
stage3_unit2_bn2 (BatchNormaliz)	(None, 32, 32, 256)	1024	stage3_unit2_conv1[0][0]
stage3_unit2_relu2 (Activation)	(None, 32, 32, 256)	0	stage3_unit2_bn2[0][0]
zero_padding2d_19 (ZeroPadding2)	(None, 34, 34, 256)	0	stage3_unit2_relu2[0][0]
stage3_unit2_conv2 (Conv2D)	(None, 32, 32, 256)	589824	zero_padding2d_19[0][0]
add_8 (Add)	(None, 32, 32, 256)	0	stage3_unit2_conv2[0][0] add_7[0][0]
stage3_unit3_bn1 (BatchNormaliz)	(None, 32, 32, 256)	1024	add_8[0][0]
stage3_unit3_relu1 (Activation)	(None, 32, 32, 256)	0	stage3_unit3_bn1[0][0]
zero_padding2d_20 (ZeroPadding2)	(None, 34, 34, 256)	0	stage3_unit3_relu1[0][0]
stage3_unit3_conv1 (Conv2D)	(None, 32, 32, 256)	589824	zero_padding2d_20[0][0]
stage3_unit3_bn2 (BatchNormaliz)	(None, 32, 32, 256)	1024	stage3_unit3_conv1[0][0]
stage3_unit3_relu2 (Activation)	(None, 32, 32, 256)	0	stage3_unit3_bn2[0][0]
zero_padding2d_21 (ZeroPadding2)	(None, 34, 34, 256)	0	stage3_unit3_relu2[0][0]

stage3_unit3_conv2 (Conv2D)	(None, 32, 32, 256)	589824	zero_padding2d_21[0][0]
add_9 (Add)	(None, 32, 32, 256)	0	stage3_unit3_conv2[0][0] add_8[0][0]
stage3_unit4_bn1 (BatchNormaliz	(None, 32, 32, 256)	1024	add_9[0][0]
stage3_unit4_relu1 (Activation)	(None, 32, 32, 256)	0	stage3_unit4_bn1[0][0]
zero_padding2d_22 (ZeroPadding2	(None, 34, 34, 256)	0	stage3_unit4_relu1[0][0]
stage3_unit4_conv1 (Conv2D)	(None, 32, 32, 256)	589824	zero_padding2d_22[0][0]
stage3_unit4_bn2 (BatchNormaliz	(None, 32, 32, 256)	1024	stage3_unit4_conv1[0][0]
stage3_unit4_relu2 (Activation)	(None, 32, 32, 256)	0	stage3_unit4_bn2[0][0]
zero_padding2d_23 (ZeroPadding2	(None, 34, 34, 256)	0	stage3_unit4_relu2[0][0]
stage3_unit4_conv2 (Conv2D)	(None, 32, 32, 256)	589824	zero_padding2d_23[0][0]
add_10 (Add)	(None, 32, 32, 256)	0	stage3_unit4_conv2[0][0] add_9[0][0]
stage3_unit5_bn1 (BatchNormaliz	(None, 32, 32, 256)	1024	add_10[0][0]
stage3_unit5_relu1 (Activation)	(None, 32, 32, 256)	0	stage3_unit5_bn1[0][0]
zero_padding2d_24 (ZeroPadding2	(None, 34, 34, 256)	0	stage3_unit5_relu1[0][0]
stage3_unit5_conv1 (Conv2D)	(None, 32, 32, 256)	589824	zero_padding2d_24[0][0]
stage3_unit5_bn2 (BatchNormaliz	(None, 32, 32, 256)	1024	stage3_unit5_conv1[0][0]
stage3_unit5_relu2 (Activation)	(None, 32, 32, 256)	0	stage3_unit5_bn2[0][0]
zero_padding2d_25 (ZeroPadding2	(None, 34, 34, 256)	0	stage3_unit5_relu2[0][0]
stage3_unit5_conv2 (Conv2D)	(None, 32, 32, 256)	589824	zero_padding2d_25[0][0]
add_11 (Add)	(None, 32, 32, 256)	0	stage3_unit5_conv2[0][0] add_10[0][0]
stage3_unit6_bn1 (BatchNormaliz	(None, 32, 32, 256)	1024	add_11[0][0]

stage3_unit6_relu1 (Activation) (None, 32, 32, 256) 0		stage3_unit6_bn1[0][0]
zero_padding2d_26 (ZeroPadding2 (None, 34, 34, 256) 0		stage3_unit6_relu1[0][0]
stage3_unit6_conv1 (Conv2D) (None, 32, 32, 256) 589824		zero_padding2d_26[0][0]
stage3_unit6_bn2 (BatchNormaliz (None, 32, 32, 256) 1024		stage3_unit6_conv1[0][0]
stage3_unit6_relu2 (Activation) (None, 32, 32, 256) 0		stage3_unit6_bn2[0][0]
zero_padding2d_27 (ZeroPadding2 (None, 34, 34, 256) 0		stage3_unit6_relu2[0][0]
stage3_unit6_conv2 (Conv2D) (None, 32, 32, 256) 589824		zero_padding2d_27[0][0]
add_12 (Add) (None, 32, 32, 256) 0		stage3_unit6_conv2[0][0] add_11[0][0]
stage4_unit1_bn1 (BatchNormaliz (None, 32, 32, 256) 1024		add_12[0][0]
stage4_unit1_relu1 (Activation) (None, 32, 32, 256) 0		stage4_unit1_bn1[0][0]
zero_padding2d_28 (ZeroPadding2 (None, 34, 34, 256) 0		stage4_unit1_relu1[0][0]
stage4_unit1_conv1 (Conv2D) (None, 16, 16, 512) 1179648		zero_padding2d_28[0][0]
stage4_unit1_bn2 (BatchNormaliz (None, 16, 16, 512) 2048		stage4_unit1_conv1[0][0]
stage4_unit1_relu2 (Activation) (None, 16, 16, 512) 0		stage4_unit1_bn2[0][0]
zero_padding2d_29 (ZeroPadding2 (None, 18, 18, 512) 0		stage4_unit1_relu2[0][0]
stage4_unit1_conv2 (Conv2D) (None, 16, 16, 512) 2359296		zero_padding2d_29[0][0]
stage4_unit1_sc (Conv2D) (None, 16, 16, 512) 131072		stage4_unit1_relu1[0][0]
add_13 (Add) (None, 16, 16, 512) 0		stage4_unit1_conv2[0][0] stage4_unit1_sc[0][0]
stage4_unit2_bn1 (BatchNormaliz (None, 16, 16, 512) 2048		add_13[0][0]
stage4_unit2_relu1 (Activation) (None, 16, 16, 512) 0		stage4_unit2_bn1[0][0]
zero_padding2d_30 (ZeroPadding2 (None, 18, 18, 512) 0		stage4_unit2_relu1[0][0]
stage4_unit2_conv1 (Conv2D) (None, 16, 16, 512) 2359296		zero_padding2d_30[0][0]

stage4_unit2_bn2 (BatchNormaliz	(None, 16, 16, 512)	2048	stage4_unit2_conv1[0][0]
stage4_unit2_relu2 (Activation)	(None, 16, 16, 512)	0	stage4_unit2_bn2[0][0]
zero_padding2d_31 (ZeroPadding2	(None, 18, 18, 512)	0	stage4_unit2_relu2[0][0]
stage4_unit2_conv2 (Conv2D)	(None, 16, 16, 512)	2359296	zero_padding2d_31[0][0]
add_14 (Add)	(None, 16, 16, 512)	0	stage4_unit2_conv2[0][0] add_13[0][0]
stage4_unit3_bn1 (BatchNormaliz	(None, 16, 16, 512)	2048	add_14[0][0]
stage4_unit3_relu1 (Activation)	(None, 16, 16, 512)	0	stage4_unit3_bn1[0][0]
zero_padding2d_32 (ZeroPadding2	(None, 18, 18, 512)	0	stage4_unit3_relu1[0][0]
stage4_unit3_conv1 (Conv2D)	(None, 16, 16, 512)	2359296	zero_padding2d_32[0][0]
stage4_unit3_bn2 (BatchNormaliz	(None, 16, 16, 512)	2048	stage4_unit3_conv1[0][0]
stage4_unit3_relu2 (Activation)	(None, 16, 16, 512)	0	stage4_unit3_bn2[0][0]
zero_padding2d_33 (ZeroPadding2	(None, 18, 18, 512)	0	stage4_unit3_relu2[0][0]
stage4_unit3_conv2 (Conv2D)	(None, 16, 16, 512)	2359296	zero_padding2d_33[0][0]
add_15 (Add)	(None, 16, 16, 512)	0	stage4_unit3_conv2[0][0] add_14[0][0]
bn1 (BatchNormalization)	(None, 16, 16, 512)	2048	add_15[0][0]
relu1 (Activation)	(None, 16, 16, 512)	0	bn1[0][0]
decoder_stage0_upsampling (UpSa	(None, 32, 32, 512)	0	relu1[0][0]
decoder_stage0_concat (Concaten	(None, 32, 32, 768)	0	decoder_stage0_upsampling[0][0] stage4_unit1_relu1[0][0]
decoder_stage0a_conv (Conv2D)	(None, 32, 32, 256)	1769472	decoder_stage0_concat[0][0]
decoder_stage0a_bn (BatchNormal	(None, 32, 32, 256)	1024	decoder_stage0a_conv[0][0]
decoder_stage0a_relu (Activatio	(None, 32, 32, 256)	0	decoder_stage0a_bn[0][0]

decoder_stage0b_conv (Conv2D) (None, 32, 32, 256)	589824	decoder_stage0a_relu[0][0]
decoder_stage0b_bn (BatchNormal (None, 32, 32, 256)	1024	decoder_stage0b_conv[0][0]
decoder_stage0b_relu (Activatio (None, 32, 32, 256)	0	decoder_stage0b_bn[0][0]
decoder_stage1_upsampling (UpSa (None, 64, 64, 256)	0	decoder_stage0b_relu[0][0]
decoder_stage1_concat (Concaten (None, 64, 64, 384)	0	decoder_stage1_upsampling[0][0] stage3_unit1_relu1[0][0]
decoder_stagel1_conv (Conv2D) (None, 64, 64, 128)	442368	decoder_stage1_concat[0][0]
decoder_stagel1_bn (BatchNormal (None, 64, 64, 128)	512	decoder_stagel1_conv[0][0]
decoder_stagel1_relu (Activatio (None, 64, 64, 128)	0	decoder_stagel1_bn[0][0]
decoder_stage1b_conv (Conv2D) (None, 64, 64, 128)	147456	decoder_stagel1_relu[0][0]
decoder_stage1b_bn (BatchNormal (None, 64, 64, 128)	512	decoder_stage1b_conv[0][0]
decoder_stage1b_relu (Activatio (None, 64, 64, 128)	0	decoder_stage1b_bn[0][0]
decoder_stage2_upsampling (UpSa (None, 128, 128, 128	0	decoder_stage1b_relu[0][0]
decoder_stage2_concat (Concaten (None, 128, 128, 192	0	decoder_stage2_upsampling[0][0] stage2_unit1_relu1[0][0]
decoder_stage2a_conv (Conv2D) (None, 128, 128, 64)	110592	decoder_stage2_concat[0][0]
decoder_stage2a_bn (BatchNormal (None, 128, 128, 64)	256	decoder_stage2a_conv[0][0]
decoder_stage2a_relu (Activatio (None, 128, 128, 64)	0	decoder_stage2a_bn[0][0]
decoder_stage2b_conv (Conv2D) (None, 128, 128, 64)	36864	decoder_stage2a_relu[0][0]
decoder_stage2b_bn (BatchNormal (None, 128, 128, 64)	256	decoder_stage2b_conv[0][0]
decoder_stage2b_relu (Activatio (None, 128, 128, 64)	0	decoder_stage2b_bn[0][0]
decoder_stage3_upsampling (UpSa (None, 256, 256, 64)	0	decoder_stage2b_relu[0][0]
decoder_stage3_concat (Concaten (None, 256, 256, 128	0	decoder_stage3_upsampling[0][0] relu0[0][0]

decoder_stage3a_conv (Conv2D)	(None, 256, 256, 32)	36864	decoder_stage3_concat[0][0]
decoder_stage3a_bn (BatchNormal)	(None, 256, 256, 32)	128	decoder_stage3a_conv[0][0]
decoder_stage3a_relu (Activation)	(None, 256, 256, 32)	0	decoder_stage3a_bn[0][0]
decoder_stage3b_conv (Conv2D)	(None, 256, 256, 32)	9216	decoder_stage3a_relu[0][0]
decoder_stage3b_bn (BatchNormal)	(None, 256, 256, 32)	128	decoder_stage3b_conv[0][0]
decoder_stage3b_relu (Activation)	(None, 256, 256, 32)	0	decoder_stage3b_bn[0][0]
decoder_stage4_upsampling (UpSampling2D)	(None, 512, 512, 32)	0	decoder_stage3b_relu[0][0]
decoder_stage4a_conv (Conv2D)	(None, 512, 512, 16)	4608	decoder_stage4_upsampling[0][0]
decoder_stage4a_bn (BatchNormal)	(None, 512, 512, 16)	64	decoder_stage4a_conv[0][0]
decoder_stage4a_relu (Activation)	(None, 512, 512, 16)	0	decoder_stage4a_bn[0][0]
decoder_stage4b_conv (Conv2D)	(None, 512, 512, 16)	2304	decoder_stage4a_relu[0][0]
decoder_stage4b_bn (BatchNormal)	(None, 512, 512, 16)	64	decoder_stage4b_conv[0][0]
decoder_stage4b_relu (Activation)	(None, 512, 512, 16)	0	decoder_stage4b_bn[0][0]
final_conv (Conv2D)	(None, 512, 512, 21)	3045	decoder_stage4b_relu[0][0]
softmax (Activation)	(None, 512, 512, 21)	0	final_conv[0][0]
<hr/>			
Total params: 24,459,054			
Trainable params: 3,169,960			
Non-trainable params: 21,289,094			

```
In [ ]: # import imgaug.augmenters as iaa
# For the assignment choose any 4 augmentation techniques
# check the imgaug documentations for more augmentations
# reference taken from https://imgaug.readthedocs.io/en/latest/source/api_augmenters_meta.html
aug2 = iaa.Fliplr(1)
aug3 = iaa.Flipud(1)
aug4 = iaa.Emboss(alpha=(1), strength=1)
aug5 = iaa.DirectedEdgeDetect(alpha=(0.8), direction=(1.0))
```

```
aug6 = iaa.Sharpen(alpha=(1.0), lightness=(1.5))
aug6 = iaa.GammaContrast((0.5, 2.0))      #https://imgaug.readthedocs.io/en/latest/source/api_augmenters_meta.html
aug7 = iaa.GaussianBlur(sigma=(0.0, 3.0))
```

In [ ]:

```
#make changes
def visualize(**images):
    n = len(images)
    plt.figure(figsize=(16, 5))
    for i, (name, image) in enumerate(images.items()):
        plt.subplot(1, n, i + 1)
        plt.xticks([])
        plt.yticks([])
        plt.title(' '.join(name.split('_')).title())
        if i==1:
            plt.imshow(image, cmap='gray', vmax=1, vmin=0)
        else:
            plt.imshow(image)
    plt.show()

def normalize_image(mask):
    mask = mask/255
    return mask

class Dataset:
    CLASSES = list(np.unique(list(label_clr.values())))
    def __init__(self, data, augmentation):
        self.augmentation = augmentation
        self.images_fps = data['image'].tolist()
        self.masks_fps = data['mask'].tolist()
        self.class_values = CLASSES

    def __getitem__(self, i):

        #image_mask = normalize_image(mask)
        image = cv2.imread(self.images_fps[i], cv2.IMREAD_UNCHANGED)
        image = cv2.resize(image,(512,512),interpolation=cv2.INTER_AREA)
        image = cv2.cvtColor(image, cv2.COLOR_BGR2RGB)

        mask = cv2.imread(self.masks_fps[i], cv2.IMREAD_UNCHANGED)
        mask = cv2.resize(mask,(512,512),interpolation=cv2.INTER_AREA)
```

```

        image_masks = [(mask == v) for v in self.class_values]
        image_mask = np.stack(image_masks, axis=-1).astype('float')
        if self.augmentation == True:
            a = np.random.uniform()
            if a<0.16:
                image = aug2.augment_image(image)
            elif a<0.32:
                image = aug3.augment_image(image)
            elif a<0.48:
                image = aug4.augment_image(image)
            elif a<0.64:
                image = aug5.augment_image(image)
            elif a<0.80:
                image = aug6.augment_image(image)
            else:
                image = aug7.augment_image(image)

        return image, image_mask

    def __len__(self):
        return len(self.images_fps)

    class Dataloder(tf.keras.utils.Sequence):
        def __init__(self, dataset, batch_size=1, shuffle=False):
            self.dataset = dataset
            self.batch_size = batch_size
            self.shuffle = shuffle
            self.indexes = np.arange(len(dataset))

        def __getitem__(self, i):

            # collect batch data
            start = i * self.batch_size
            stop = (i + 1) * self.batch_size
            data = []
            for j in range(start, stop):
                data.append(self.dataset[j])

            batch = [np.stack(samples, axis=0) for samples in zip(*data)]

```

```
        return tuple(batch)

    def __len__(self):
        return len(self.indexes) // self.batch_size

    def on_epoch_end(self):
        if self.shuffle:
            self.indexes = np.random.permutation(self.indexes)
```

```
In [ ]: # # https://github.com/qubvel/segmentation_models
# import segmentation_models as sm
# from segmentation_models.metrics import iou_score
# from segmentation_models import Unet

# optim = tf.keras.optimizers.Adam(0.0001)

# focal_loss = sm.losses.cce_dice_loss

# # actually total_loss can be imported directly from library, above example just show you how to manipulate with loss
# # total_loss = sm.losses.binary_focal_dice_loss
# # or total_loss = sm.losses.categorical_focal_dice_loss

# model.compile(optim, focal_loss, metrics=[iou_score])
```

```
In [ ]: # Dataset for train images
CLASSES = list(np.unique(list(label_clr.values())))
train_dataset = Dataset(X_train, augmentation = True)
test_dataset = Dataset(X_test, augmentation = False)

BATCH_SIZE=6
train_dataloader = Dataloder(train_dataset, batch_size=BATCH_SIZE, shuffle=True)
test_dataloader = Dataloder(test_dataset, batch_size=BATCH_SIZE, shuffle=True)

print(train_dataloader[0][0].shape)
print(train_dataloader[0][1].shape)
assert train_dataloader[0][0].shape == (BATCH_SIZE, 512, 512, 3)
assert train_dataloader[0][1].shape == (BATCH_SIZE, 512, 512, 21)

(6, 512, 512, 3)
(6, 512, 512, 21)
```

## Task 2.1: Dice loss

- \* Explain the Dice loss
- \* 1. Write the formula
- \* 2. Range of the loss function
- \* 3. Interpretation of loss function
- \* 4. Write your understanding of the loss function, how does it help in segmentation

## Task 2.2: Training Unet

- \* Split the data into 80:20.
- \* Train the UNET on the given dataset and plot the train and validation loss.
- \* As shown in the reference notebook plot 20 images from the test data along with its segmentation map, predicted map.

```
In [ ]: optim = tf.keras.optimizers.Adam()
```

```
focal_loss = sm.losses.cce_dice_loss  
metric = IOUScore(threshold=.8)  
  
model.compile(optim, focal_loss, metrics=[metric])
```

```
In [ ]: callbacks = [  
    tf.keras.callbacks.ReduceLROnPlateau(monitor='val_iou_score', min_lr=0.000001, factor=0.8, patience=2),  
]
```

```
In [ ]: model.save_weights('model1.h5')  
history = model.fit(train_dataloader, steps_per_epoch=50, epochs=30,\n                    validation_data=test_dataloader, callbacks=callbacks, )
```

```
Epoch 1/30  
50/50 [=====] - 155s 2s/step - loss: 0.9929 - iou_score: 0.2324 - val_loss: 0.9873 - val_iou  
_score: 0.3017  
Epoch 2/30  
50/50 [=====] - 114s 2s/step - loss: 0.8952 - iou_score: 0.3117 - val_loss: 0.9320 - val_iou  
_score: 0.3161  
Epoch 3/30  
50/50 [=====] - 115s 2s/step - loss: 0.8799 - iou_score: 0.3200 - val_loss: 0.8762 - val_iou
```

```
_score: 0.3361
Epoch 4/30
50/50 [=====] - 115s 2s/step - loss: 0.8704 - iou_score: 0.3238 - val_loss: 0.8450 - val_iou
_score: 0.3466
Epoch 5/30
50/50 [=====] - 116s 2s/step - loss: 0.8532 - iou_score: 0.3281 - val_loss: 0.8286 - val_iou
_score: 0.3559
Epoch 6/30
50/50 [=====] - 114s 2s/step - loss: 0.8308 - iou_score: 0.3592 - val_loss: 0.8405 - val_iou
_score: 0.3479
Epoch 7/30
50/50 [=====] - 116s 2s/step - loss: 0.8191 - iou_score: 0.3670 - val_loss: 0.7897 - val_iou
_score: 0.3849
Epoch 8/30
50/50 [=====] - 115s 2s/step - loss: 0.8248 - iou_score: 0.3603 - val_loss: 0.7561 - val_iou
_score: 0.4079
Epoch 9/30
50/50 [=====] - 115s 2s/step - loss: 0.8146 - iou_score: 0.3741 - val_loss: 0.7564 - val_iou
_score: 0.3932
Epoch 10/30
50/50 [=====] - 117s 2s/step - loss: 0.7873 - iou_score: 0.3910 - val_loss: 0.7479 - val_iou
_score: 0.4104
Epoch 11/30
50/50 [=====] - 115s 2s/step - loss: 0.7861 - iou_score: 0.3901 - val_loss: 0.7228 - val_iou
_score: 0.4299
Epoch 12/30
50/50 [=====] - 115s 2s/step - loss: 0.7785 - iou_score: 0.4042 - val_loss: 0.6817 - val_iou
_score: 0.4671
Epoch 13/30
50/50 [=====] - 115s 2s/step - loss: 0.7785 - iou_score: 0.4044 - val_loss: 0.6634 - val_iou
_score: 0.4884
Epoch 14/30
50/50 [=====] - 114s 2s/step - loss: 0.7823 - iou_score: 0.4071 - val_loss: 0.6747 - val_iou
_score: 0.4732
Epoch 15/30
50/50 [=====] - 117s 2s/step - loss: 0.7817 - iou_score: 0.4102 - val_loss: 0.6554 - val_iou
_score: 0.4897
Epoch 16/30
50/50 [=====] - 116s 2s/step - loss: 0.7583 - iou_score: 0.4293 - val_loss: 0.6500 - val_iou
_score: 0.4955
Epoch 17/30
50/50 [=====] - 116s 2s/step - loss: 0.7671 - iou_score: 0.4184 - val_loss: 0.6414 - val_iou
_score: 0.5029
Epoch 18/30
50/50 [=====] - 117s 2s/step - loss: 0.7594 - iou_score: 0.4233 - val_loss: 0.6448 - val_iou
```

```
_score: 0.4992
Epoch 19/30
50/50 [=====] - 116s 2s/step - loss: 0.7604 - iou_score: 0.4216 - val_loss: 0.6376 - val_iou
_score: 0.5062
Epoch 20/30
50/50 [=====] - 115s 2s/step - loss: 0.7489 - iou_score: 0.4303 - val_loss: 0.6343 - val_iou
_score: 0.5092
Epoch 21/30
50/50 [=====] - 114s 2s/step - loss: 0.7523 - iou_score: 0.4241 - val_loss: 0.6288 - val_iou
_score: 0.5161
Epoch 22/30
50/50 [=====] - 115s 2s/step - loss: 0.7392 - iou_score: 0.4426 - val_loss: 0.6259 - val_iou
_score: 0.5199
Epoch 23/30
50/50 [=====] - 115s 2s/step - loss: 0.7396 - iou_score: 0.4327 - val_loss: 0.6231 - val_iou
_score: 0.5205
Epoch 24/30
50/50 [=====] - 115s 2s/step - loss: 0.7309 - iou_score: 0.4422 - val_loss: 0.6251 - val_iou
_score: 0.5165
Epoch 25/30
50/50 [=====] - 115s 2s/step - loss: 0.7439 - iou_score: 0.4363 - val_loss: 0.6190 - val_iou
_score: 0.5222
Epoch 26/30
50/50 [=====] - 115s 2s/step - loss: 0.7449 - iou_score: 0.4357 - val_loss: 0.6186 - val_iou
_score: 0.5243
Epoch 27/30
50/50 [=====] - 115s 2s/step - loss: 0.7443 - iou_score: 0.4343 - val_loss: 0.6171 - val_iou
_score: 0.5244
Epoch 28/30
50/50 [=====] - 116s 2s/step - loss: 0.7387 - iou_score: 0.4351 - val_loss: 0.6153 - val_iou
_score: 0.5272
Epoch 29/30
50/50 [=====] - 115s 2s/step - loss: 0.7451 - iou_score: 0.4339 - val_loss: 0.6157 - val_iou
_score: 0.5269
Epoch 30/30
50/50 [=====] - 116s 2s/step - loss: 0.7558 - iou_score: 0.4236 - val_loss: 0.6138 - val_iou
_score: 0.5278
```

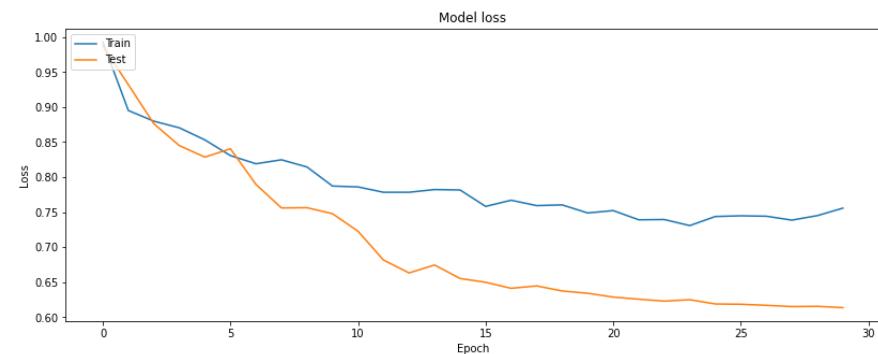
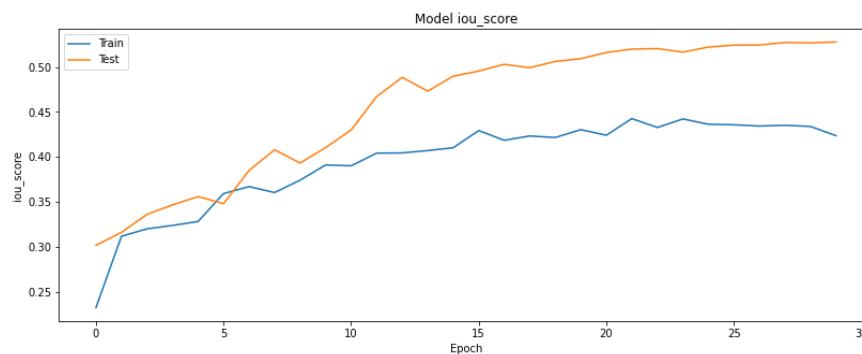
```
In [ ]: # Plot training & validation iou_score values
plt.figure(figsize=(30, 5))
plt.subplot(121)
plt.plot(history.history['iou_score'])
plt.plot(history.history['val_iou_score'])
plt.title('Model iou_score')
```

```

plt.ylabel('iou_score')
plt.xlabel('Epoch')
plt.legend(['Train', 'Test'], loc='upper left')

# Plot training & validation loss values
plt.subplot(122)
plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train', 'Test'], loc='upper left')
plt.show()

```



In [ ]:

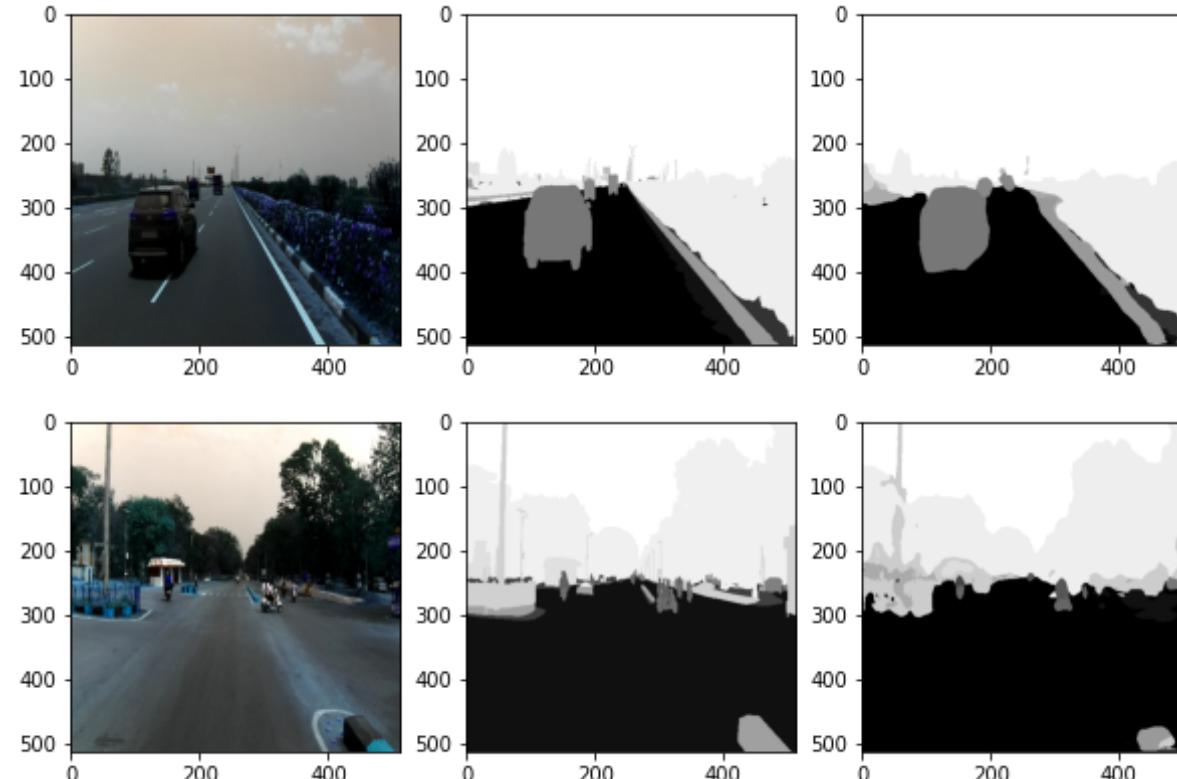
```
#reference taken from https://matplotlib.org/stable/gallery/images_contours_and_fields/image_masked.html
for p, i in enumerate(np.random.randint(0, len(X_test['image'].tolist()), size = 20)):
    #original image
    image = cv2.imread(X_test['image'].tolist()[i], cv2.IMREAD_UNCHANGED)
    image = cv2.resize(image, (512,512),interpolation = cv2.INTER_NEAREST)

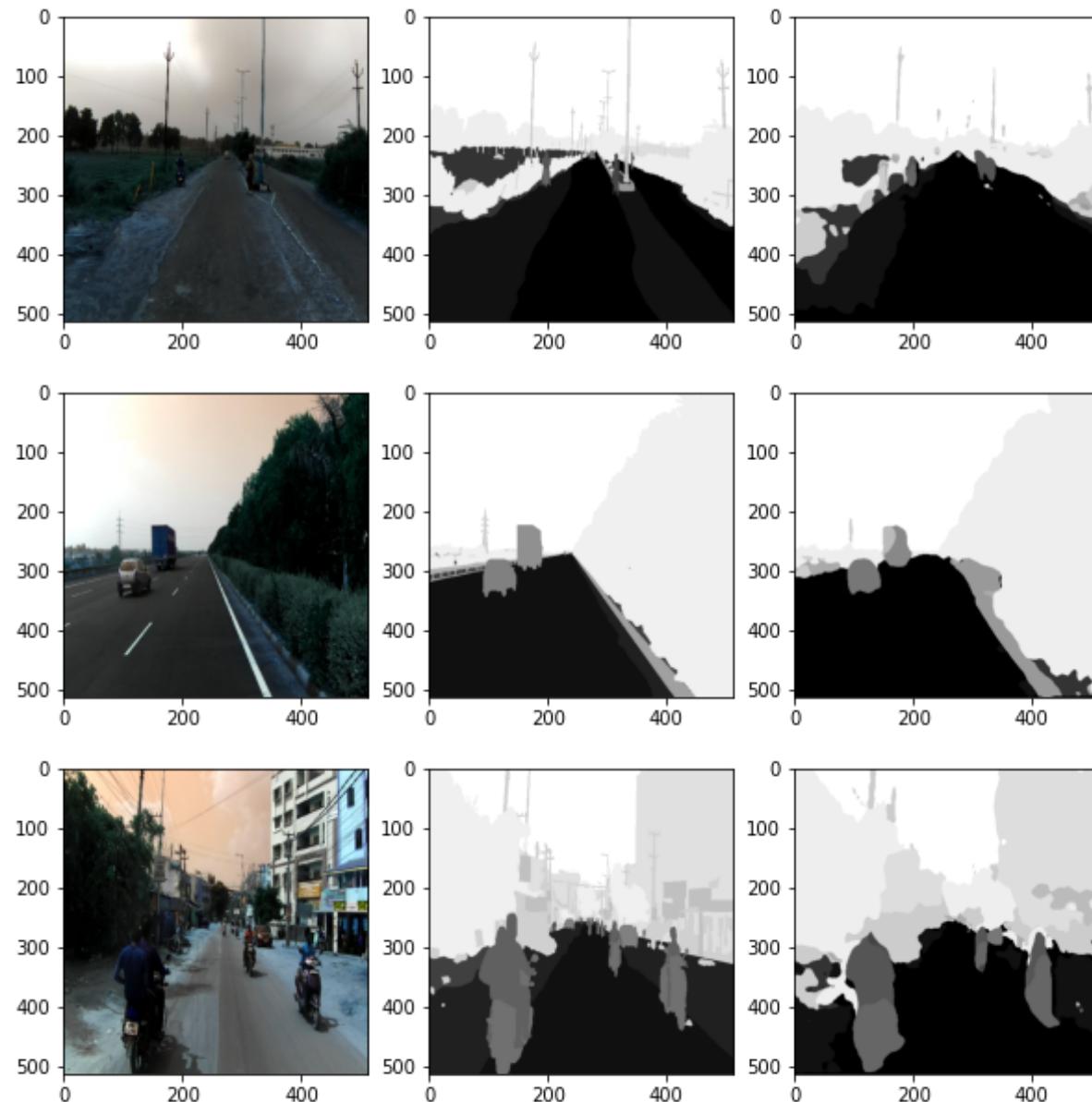
    #predicted segmentation map
    predicted = model.predict(image[np.newaxis,:,:,:])
    pred_mask = tf.argmax(predicted, axis=-1)

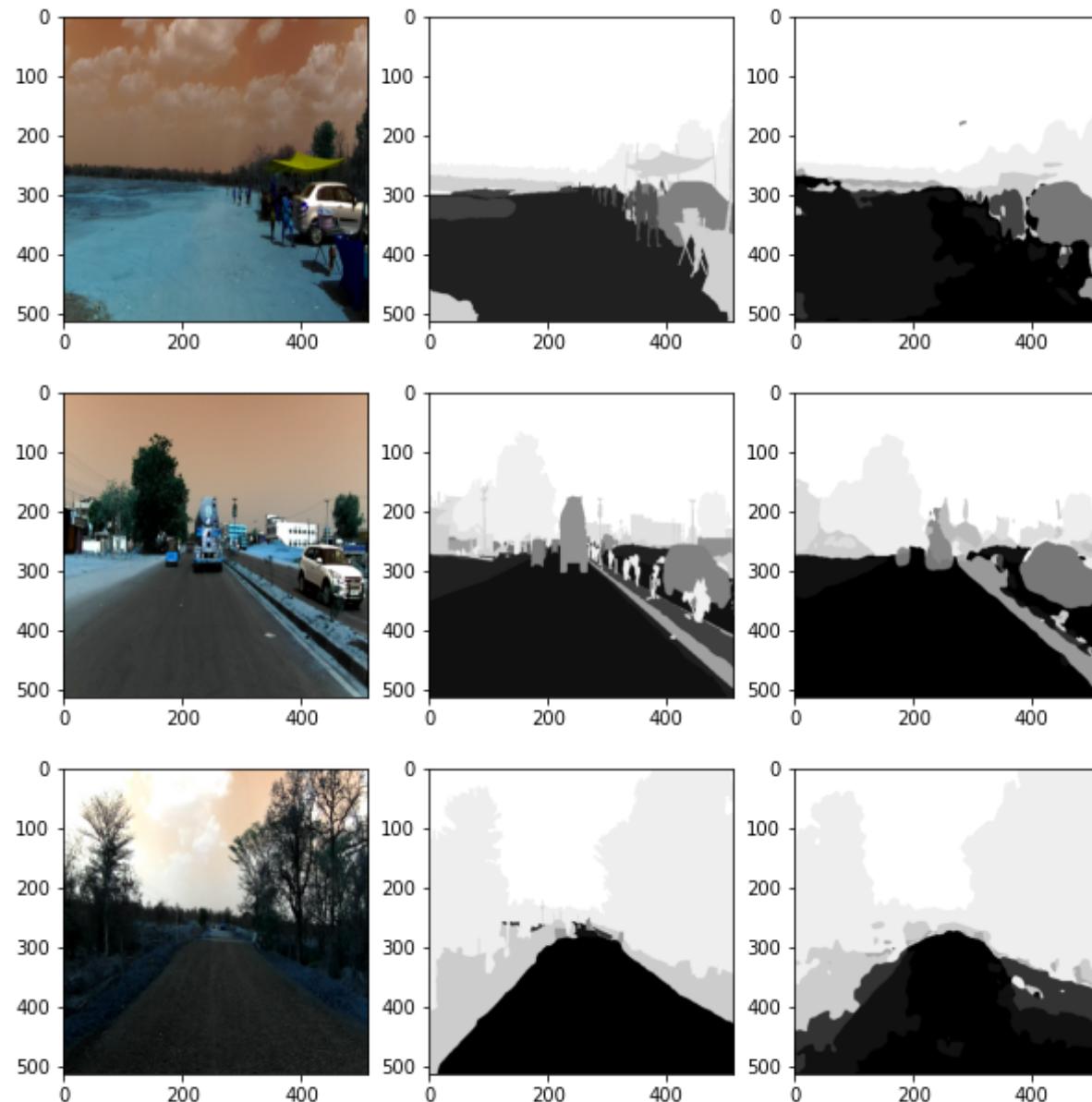
    #original segmentation map
    image_mask = cv2.imread(X_test['mask'].tolist()[i], cv2.IMREAD_UNCHANGED)
    image_mask = cv2.resize(image_mask, (512,512),interpolation = cv2.INTER_NEAREST)

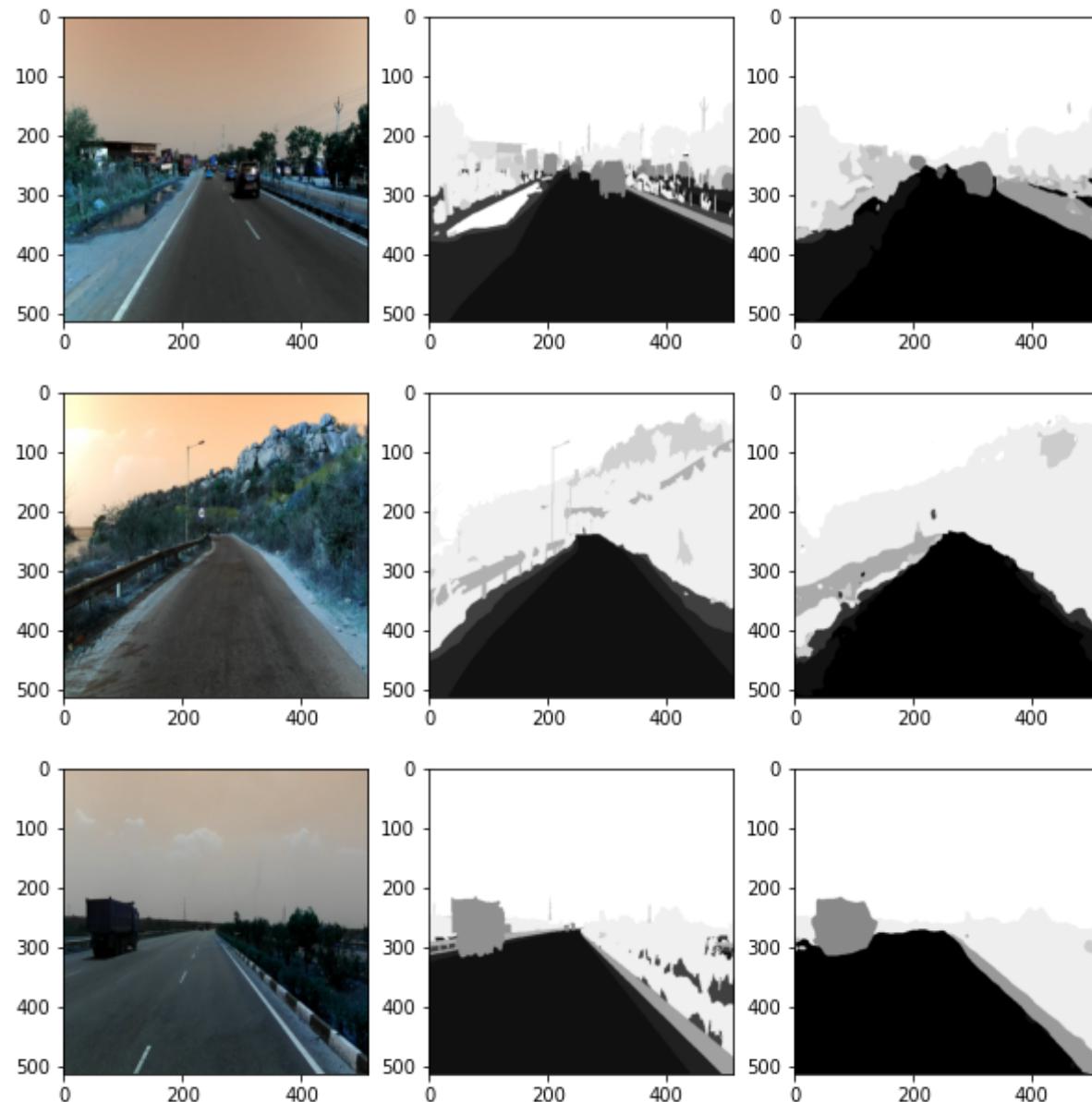
    plt.figure(figsize=(10,6))
```

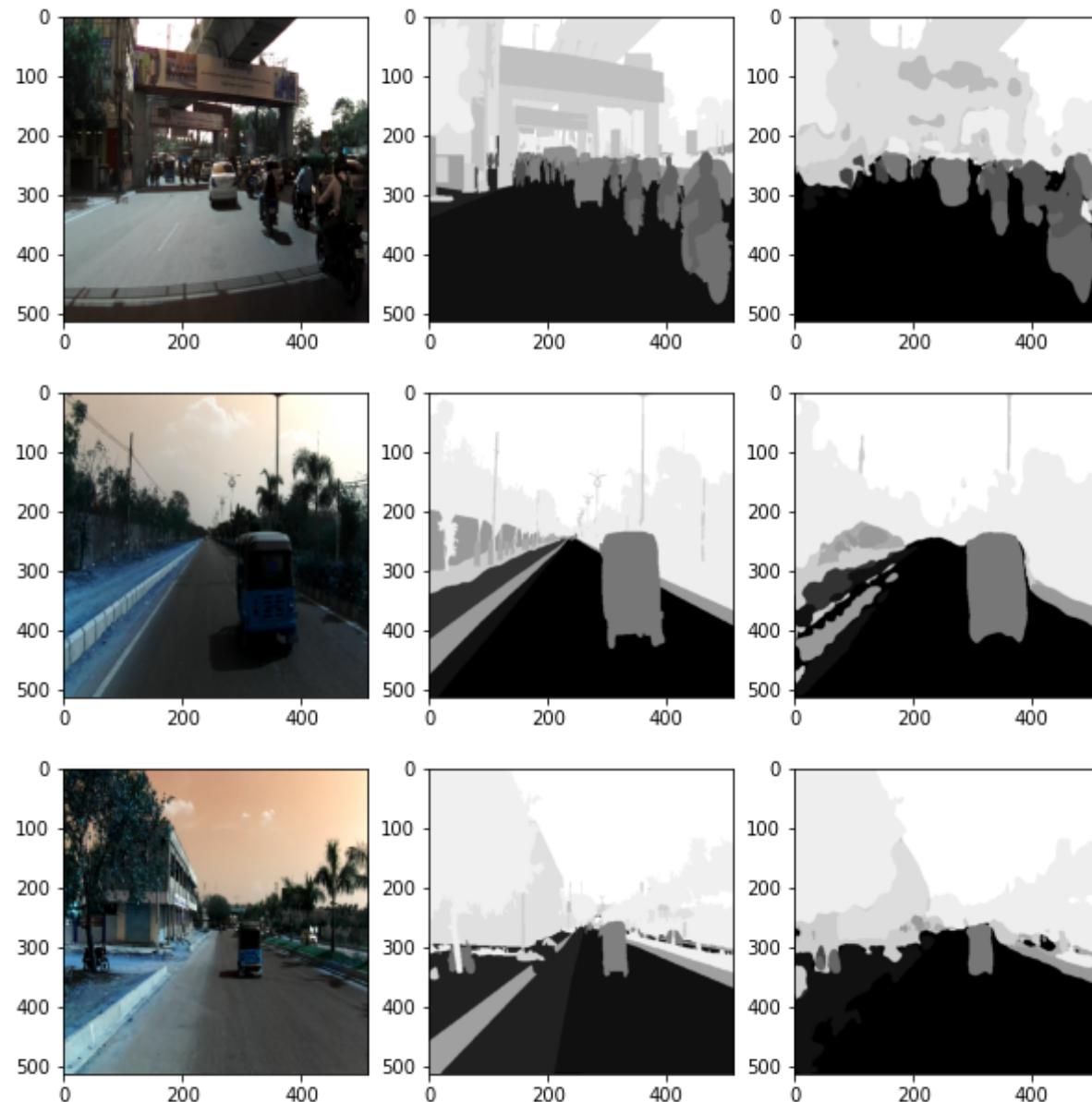
```
plt.subplot(131)
plt.imshow(image)
plt.subplot(132)
plt.imshow(image_mask, cmap='gray')
plt.subplot(133)
plt.imshow(pred_mask[0], cmap='gray')
plt.show()
```

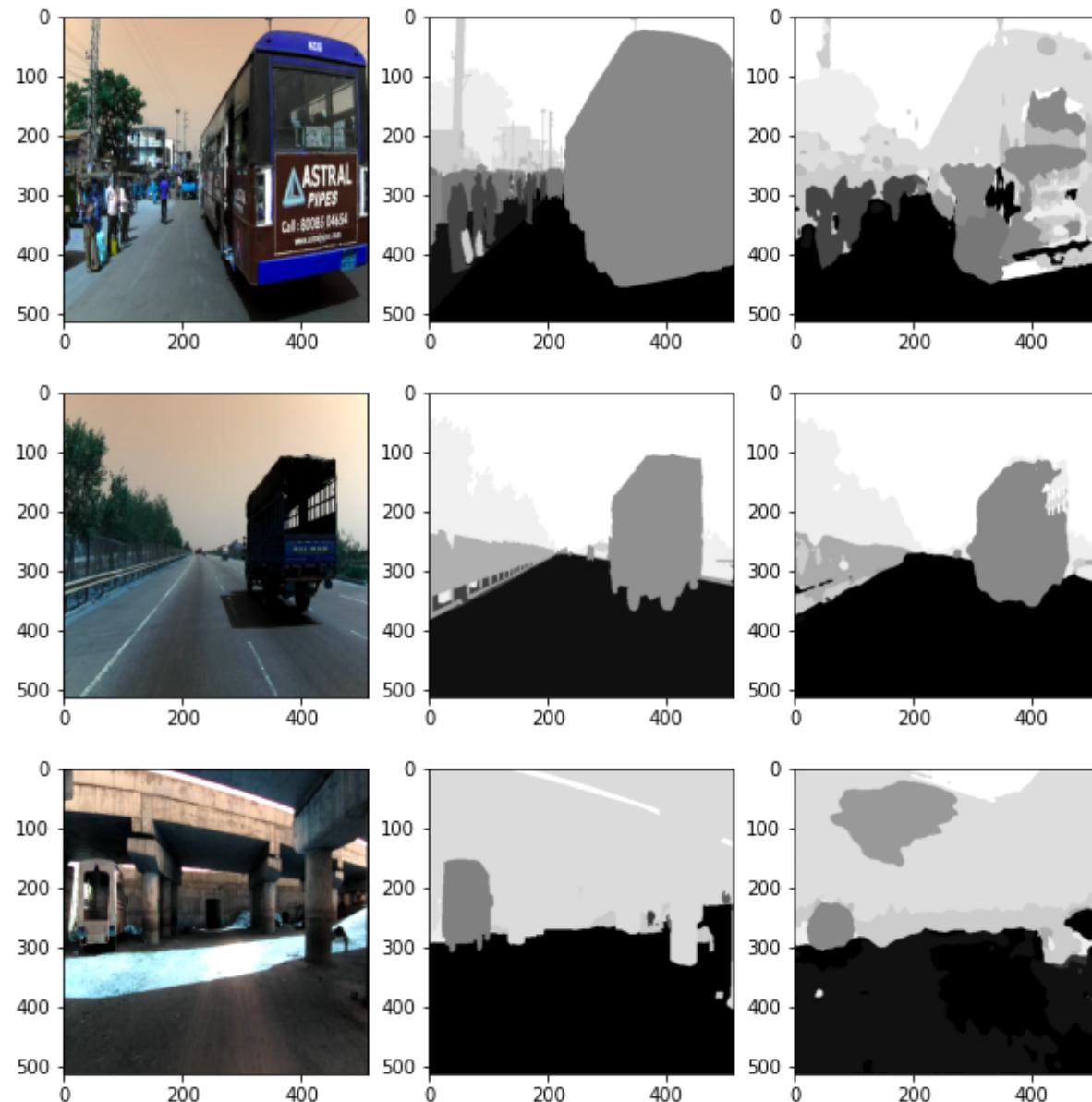


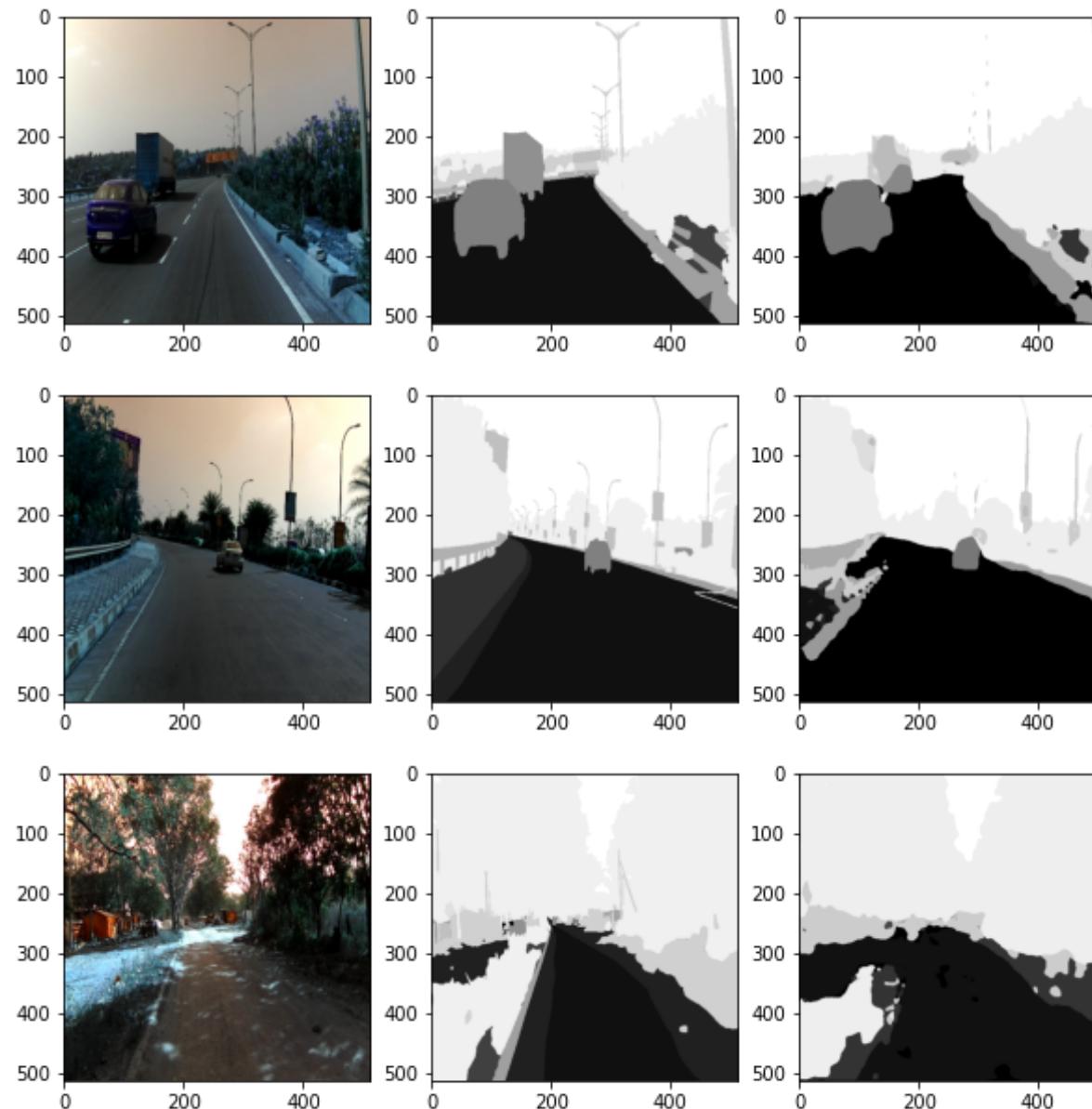












```
In [ ]: # dir_path = '900_images'  
# for p, i in enumerate(X_test):  
#     #original image
```

```

#     image = cv2.imread(os.path.join(dir_path, i+'.jpg'), cv2.IMREAD_UNCHANGED)
#     image = cv2.resize(image, (512,512))

#     #predicted segmentation map
#     predicted = model.predict(image[np.newaxis,:,:,:])

#     #original segmentation map
#     image_mask = cv2.imread(os.path.join(dir_path, i+'.mask.jpg'), cv2.IMREAD_UNCHANGED)
#     image_mask = cv2.resize(image_mask, (512,512))

#     plt.figure(figsize=(10,6))
#     plt.subplot(131)
#     plt.imshow(image)
#     plt.subplot(132)
#     plt.imshow(image_mask, cmap='gray', vmax=1, vmin=0)
#     plt.subplot(133)
#     plt.imshow(predicted[0,:,:,:,0], cmap='gray', vmax=1, vmin=0)
#     plt.show()

```

## Task 3: Training CANet

```

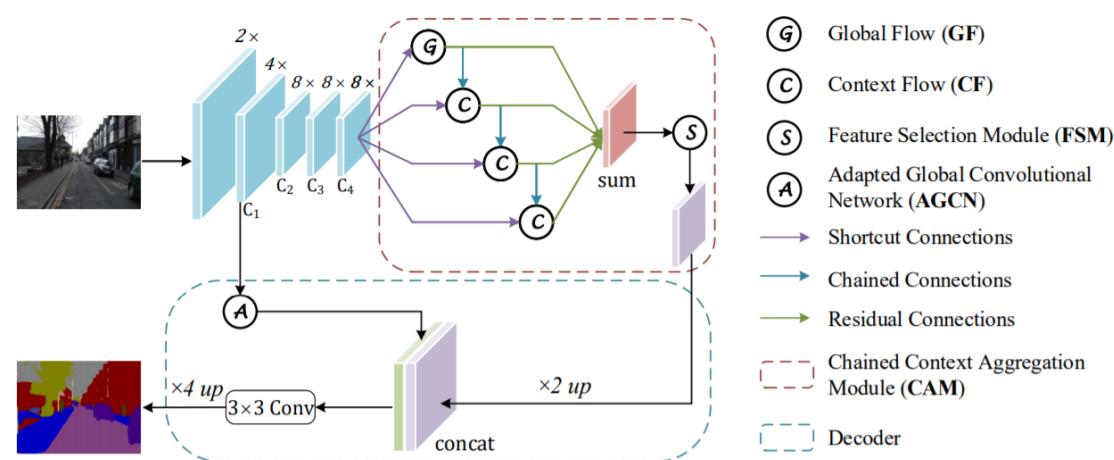
In [ ]: import tensorflow as tf
# tf.compat.v1.enable_eager_execution()
from tensorflow import keras
from tensorflow.keras.layers import *
from tensorflow.keras.preprocessing import image
from tensorflow.keras.models import Model, load_model
from tensorflow.keras.layers import UpSampling2D
from tensorflow.keras.layers import MaxPooling2D, GlobalAveragePooling2D
from tensorflow.keras.layers import concatenate
from tensorflow.keras.layers import Multiply
from tensorflow.keras.callbacks import EarlyStopping, ModelCheckpoint
from tensorflow.keras import backend as K
from tensorflow.keras.layers import Input, Add, Dense, Activation, ZeroPadding2D, BatchNormalization, Flatten, Conv2D
from tensorflow.keras.models import Model, load_model
from tensorflow.keras.utils import plot_model
from tensorflow.keras.initializers import glorot_uniform
K.set_image_data_format('channels_last')
K.set_learning_phase(1)

```

```
/usr/local/lib/python3.7/dist-packages/tensorflow/python/keras/backend.py:435: UserWarning: `tf.keras.backend.set_learning_phase` is deprecated and will be removed after 2020-10-11. To update it, simply pass a True/False value to the `training` argument of the `__call__` method of your layer or model.
  warnings.warn(`tf.keras.backend.set_learning_phase` is deprecated and '
```

- as a part of this assignment we will be implementing the architecture based on this paper <https://arxiv.org/pdf/2002.12041.pdf>
- We will be using the custom layers concept that we used in seq-seq assignment
- You can devide the whole architecture can be devided into two parts

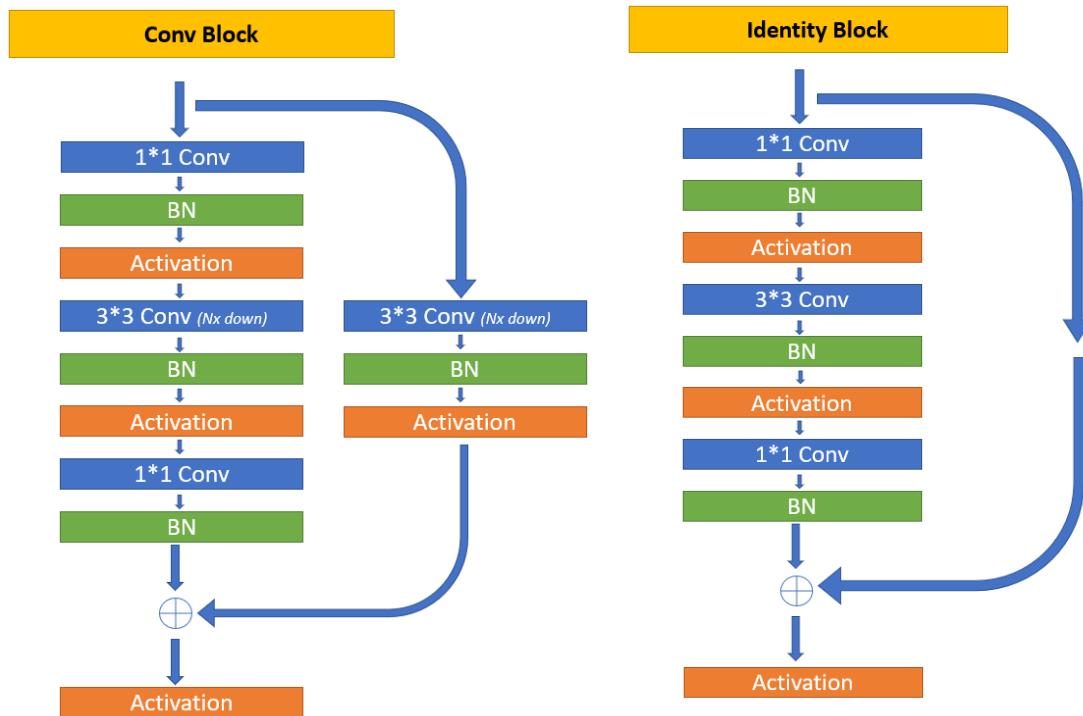
### 1. Encoder



### 2. Decoder

- Encoder:

- The first step of the encoder is to create the channel maps  $[C_1, C_2, C_3, C_4]$
- $C_1$  width and heights are 4x times less than the original image
- $C_2$  width and heights are 8x times less than the original image
- $C_3$  width and heights are 8x times less than the original image
- $C_4$  width and heights are 8x times less than the original image
- *you can reduce the dimensions by using stride parameter.*
- $[C_1, C_2, C_3, C_4]$  are formed by applying a "conv block" followed by  $k$  number of "identity block". i.e the  $C_k$  feature map will single "conv block" followed by  $k$  number of "identity blocks".



- **The conv block and identity block of  $C_1$ :** the number filters in the convolutional layers will be  $[4, 4, 8]$  and the number of filters in the parallel conv layer will also be 8.
- **The conv block and identity block of  $C_2$ :** the number filters in the convolutional layers will be  $[8, 8, 16]$  and the number of filters in the parallel conv layer will also be 16.
- **The conv block and identity block of  $C_3$ :** the number filters in the convolutional layers will be  $[16, 16, 32]$  and the number of filters in the parallel conv layer will also be 32.
- **The conv block and identity block of  $C_4$ :** the number filters in the convolutional layers will be  $[32, 32, 64]$  and the number of filters in the parallel conv layer will also be 64.
- Here  $\oplus$  represents the elementwise sum

**NOTE:** these filters are of your choice, you can explore more options also

- Example: if your image is of size  $(512, 512, 3)$

- the output after  $C_1$  will be  $128 * 128 * 8$
- the output after  $C_2$  will be  $64 * 64 * 16$
- the output after  $C_3$  will be  $64 * 64 * 32$
- the output after  $C_4$  will be  $64 * 64 * 64$

```
In [ ]: #refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/Conv2D
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/GlobalAveragePooling2D
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/BatchNormalization
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/Activation
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/add

class convolutional_block(tf.keras.layers.Layer):
    def __init__(self,filters, stride):
        super().__init__()
        self.F1, self.F2, self.F3 = filters
        self.stride1,self.stride2 = stride
        self.C1= Conv2D(self.F1, (1, 1), strides=self.stride1,name='conv1', padding="same", kernel_initializer=glorot_uniform_initializer())
        self.C2 = BatchNormalization(axis=3, name='bn_conv1')
        self.C3= Activation('relu')
        self.C4 = Conv2D(self.F2, (3, 3), strides=self.stride2,name='conv2', padding="same", kernel_initializer=glorot_uniform_initializer())
        self.C5 = BatchNormalization(axis=3, name='bn_conv2')
        self.C6 = Activation('relu')
        self.C7 = Conv2D(self.F3, (1, 1), strides=self.stride1,name='conv3', padding="same", kernel_initializer=glorot_uniform_initializer())
        self.C8 = BatchNormalization(axis=3, name='bn_conv3')

        self.C9 = Conv2D(self.F3, (3, 3), strides=self.stride2,name='parallel', padding="same", kernel_initializer=glorot_uniform_initializer())
        self.C10 = BatchNormalization(axis=3, name='bn_conv1')
        self.C11 = Activation('relu')
        self.C12=Add()
        self.C13 = Activation('relu')
    def call(self, input):
        X = self.C1(input)
        X = self.C2(X)
        X = self.C3(X)
        X = self.C4(X)
        X = self.C5(X)
        X = self.C6(X)
        X = self.C7(X)
        X =self.C8(X)
```

```

X1 = self.C9(input)
X1 = self.C10(X1)
X1 = self.C11(X1)
final_x=self.C12([X, X1])
final_conv = self.C13(final_x)
return final_conv

```

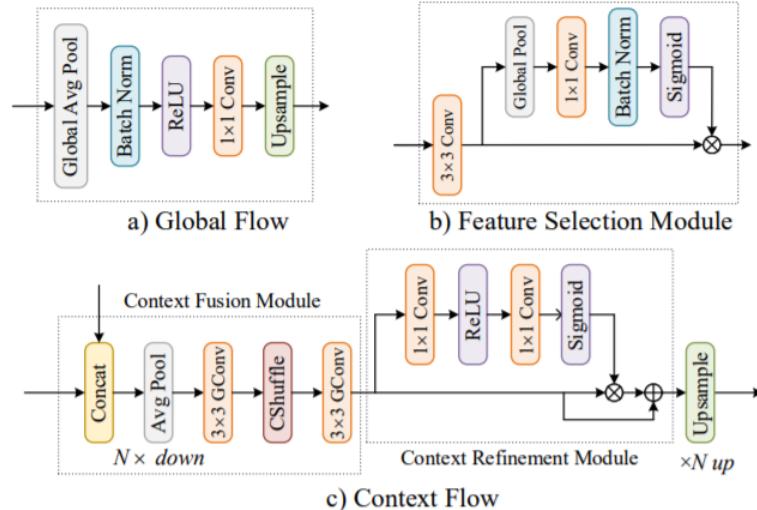
```

In [ ]:
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/Conv2D
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/GlobalAveragePooling2D
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/BatchNormalization
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/Activation
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/add
class identity_block(tf.keras.layers.Layer):
    def __init__(self,filters,stride):
        super().__init__()
        self.F1, self.F2, self.F3 = filters
        self.stride1 = stride
        self.D1 = Conv2D(self.F1, (1, 1), strides=self.stride1,name='iden1_conv1', padding="same", kernel_initializer='he_normal')
        self.D2 = BatchNormalization(axis=3, name='bn_conv1')
        self.D3 = Activation('relu')
        self.D4 = Conv2D(self.F2, (3, 3), strides=self.stride1,name='iden1_conv2', padding="same", kernel_initializer='he_normal')
        self.D5 = BatchNormalization(axis=3, name='bn_conv2')
        self.D6 = Activation('relu')
        self.D7 = Conv2D(self.F3, (1, 1), strides=self.stride1,name='iden1_conv3', padding="same", kernel_initializer='he_normal')
        self.D8 = BatchNormalization(axis=3, name='bn_conv3')
        self.D9= Add()
        self.D10 = Activation('relu')
    def call(self, input):
        X = self.D1(input)
        X = self.D2(X)
        X = self.D3(X)
        X = self.D4(X)
        X = self.D5(X)
        X = self.D6(X)
        X = self.D7(X)
        X = self.D8(X)
        final_identity=self.D9([input, X])
        final_identity = self.D10(final_identity)
        return final_identity

```

- The output of the  $C_4$  will be passed to Chained Context Aggregation Module (CAM)

## Indented block



- The CAM module will have two operations names Context flow and Global flow
- **The Global flow:**
  - as shown in the above figure first we will apply [global avg pooling](#) which results in (#, 1, 1, number\_of\_filters) then applying [BN, RELU, 1 \\* 1 Conv](#) layer sequentially which results a matrix (#, 1, 1, number\_of\_filters). Finally apply [upsampling / conv2d transpose](#) to make the output same as the input dimensions (#, input\_height, input\_width, number\_of\_filters)
  - If you use [upsampling](#) then use bilinear pooling as interpolation technique
- **The Context flow:**
  - as shown in the above figure (c) the context flow will get inputs from two modules a. C4 b. From the above flow
  - We will be [concatenating](#) the both inputs on the last axis.
  - After the concatenation we will be applying [Average pooling](#) which reduces the size of feature map by  $N \times$  times
  - In the paper it was mentioned that to apply a group convolutions, but for the assignment we will be applying the simple conv layers with kernel size ( $3 \times 3$ )
  - We are skipping the channel shuffling
  - similarly we will be applying a simple conv layers with kernel size ( $3 \times 3$ ) consider this output is X

- later we will get the  $Y = (X \otimes \sigma((1 \times 1)conv(relu((1 \times 1)conv(X))))) \oplus X$ , here  $\oplus$  is elementwise addition and  $\otimes$  is elementwise multiplication
- Finally apply [upsampling / conv2d transpose](#) to make the output same as the input dimensions (#, input\_height, input\_width, number\_of\_filters)
- If you use [upsampling](#) then use bilinear pooling as interpolation technique

NOTE: here N times reduction and N time increments makes the input and out shape same, you can explore with the N values, you can choose N = 2 or 4

- Example with N=2:
  - Assume the C4 is of shape (64,64,64) then the shape of GF will be (64,64,32)
  - Assume the C4 is of shape (64,64,64) and the shape of GF is (64,64,32) then the shape of CF1 will be (64,64,32)
  - Assume the C4 is of shape (64,64,64) and the shape of CF1 is (64,64,32) then the shape of CF2 will be (64,64,32)
  - Assume the C4 is of shape (64,64,64) and the shape of CF2 is (64,64,32) then the shape of CF3 will be (64,64,32)

```
In [ ]: class global_flow(tf.keras.layers.Layer):
    def __init__(self, filters, stride):
        super().__init__()
        self.F1 = filters
        self.stride1 = stride
        self.gap1=GlobalAveragePooling2D()
        self.bnd1=BatchNormalization()
        self.actd1=Activation('relu')
        self.cond1= Conv2D(self.F1, (1, 1), strides=self.stride1,name='conv1', padding="same", kernel_initializer=gl
        self.up1=UpSampling2D(size = 64)

    def call(self, X):
        # implement the global flow operation
        out = self.gap1(X)
        out = self.bnd1(out)
        out = self.actd1(out)
        out = tf.reshape(out, shape = (-1, 1, 1, X.shape[-1]))
        out = self.cond1(out)
        out = self.up1(out)
        return out
```

```
In [ ]: #refrence taken from https://www.tensorflow.org/api\_docs/python/tf/keras/layers/Conv2D
```

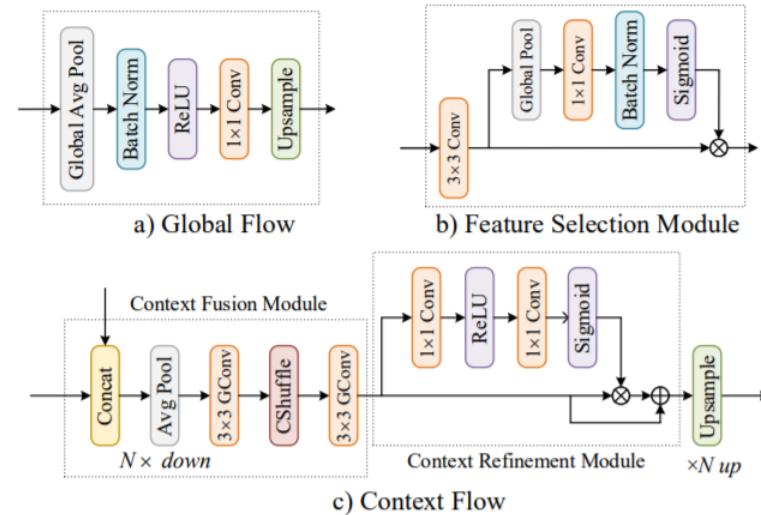
```

#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/GlobalAveragePooling2D
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/BatchNormalization
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/Activation
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/add
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/UpSampling2D
class context_flow(tf.keras.layers.Layer):
    def __init__(self, filters,stride, **kwargs):
        super().__init__()
        self.F1 = filters
        self.stride1,self.stride2 = stride
        self.F3 = AveragePooling2D(strides=2)
        self.F4 = Conv2D(self.F1, (3, 3), strides=self.stride1,name='conv1', padding="same", kernel_initializer=glorot_uniform_initializer())
        self.F5 = Conv2D(self.F1, (3, 3), strides=self.stride1,name='conv1', padding="same", kernel_initializer=glorot_uniform_initializer())
        self.F6 = Conv2D(self.F1, (1, 1), strides=self.stride1,name='conv1', padding="same", kernel_initializer=glorot_uniform_initializer())
        self.F7 = Activation('relu')
        self.F8 = Conv2D(self.F1, (1, 1), strides=self.stride1,name='conv1', padding="same", kernel_initializer=glorot_uniform_initializer())
        self.F9 = Activation('sigmoid')
        self.F10 = Multiply()
        self.F11= Add()
        self.F12 = UpSampling2D(size = 2)

    def call(self, X):
        # here X will a list of two elements
        INP, FLOW = X[0], X[1]
        concetenate_output = concatenate([INP, FLOW])
        avg = self.F3(concatenate_output)
        X1 = self.F4(avg)
        X2 = self.F5(X1)
        X3 = self.F6(X2)
        X4 = self.F7(X3)
        X5 = self.F8(X4)
        X6 = self.F9(X5)
        mul = self.F10([X2,X6])
        add = self.F11([X2,mul])
        final_output = self.F12(add)
        return final_output

```

- As shown in the above architecture we will be having 4 context flows
- if you have implemented correctly all the shapes of Global Flow, and 3 context flows will have the same dimension



- the output of these 4 modules will be **added** to get the same output matrix
  - The output of after the sum, will be sent to the **Feature selection module FSM**
- Example:
  - if the shapes of GF, CF1, CF2, CF3 are  $(64, 64, 32)$ ,  $(64, 64, 32)$ ,  $(64, 64, 32)$ ,  $(64, 64, 32)$ ,  $(64, 64, 32)$  respectivly then after the sum we will be getting  $(64, 64, 32)$ , which will be passed to the next module.

#### Feature selection module:

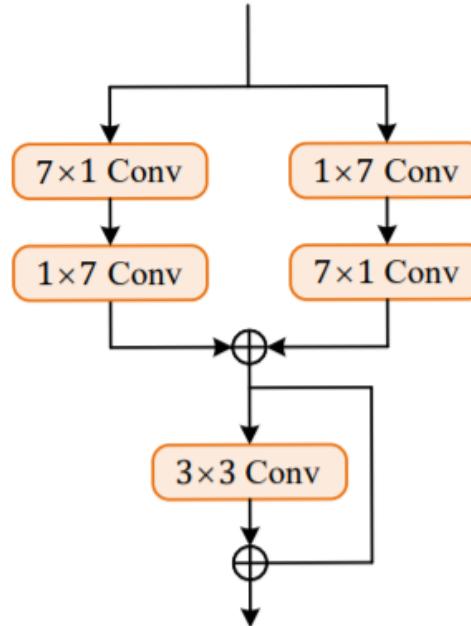
- As part of the FSM we will be applying a conv layer  $(3,3)$  with the padding="same" so that the output and input will have same shapes
- Let call the output as X
- Pass the X to global pooling which results the matrix  $(\#, 1, 1, \text{number\_of\_channels})$
- Apply  $1 * 1$  conv layer, after the pooling
- the output of the  $1 * 1$  conv layer will be passed to the Batch normalization layer, followed by Sigmoid activation function.
- we will be having the output matrix of shape  $(\#, 1, 1, \text{number\_of\_channels})$  lets call it 'Y'
- we can interpret this as attention mechanism, i.e for each channel we will having a weight**
- the dimension of X  $(\#, w, h, k)$  and output above steps Y is  $(\#, 1, 1, k)$  i.e we need to multiply each channel of X will be **multiplied** with corresponding channel of Y

- After creating the weighted channel map we will be doing upsampling such that it will double the height and width.
- apply [upsampling](#) with bilinear pooling as interpolation technique
- **Example:**

- Assume the matrix shape of the input is (64,64,32) then after upsampling it will be (128,128,32)

In [ ]:

```
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/Conv2D
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/GlobalAveragePooling2D
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/BatchNormalization
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/Activation
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/add
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/UpSampling2D
class fsm(tf.keras.layers.Layer):
    def __init__(self,filters,stride):
        super().__init__()
        self.F1 = filters
        self.stride1,self.stride2 = stride
        self.G1 = Conv2D(self.F1, (3, 3), strides=self.stride1,name='conv1', padding="same", kernel_initializer=glorot_uniform_initializer())
        self.G2 = GlobalAveragePooling2D()
        self.G3 = BatchNormalization()
        self.G4 = Activation('sigmoid')
        self.G5 = Multiply()
        self.G6 = UpSampling2D(size = 2)
    def call(self, X):
        # implement the FSM modules based on image in the above cells
        X1 = self.G1(X)
        global_avg = self.G2(X1)
        output = tf.reshape(global_avg, shape = (-1, 1, 1, global_avg.shape[-1]))
        output1 = self.G3(output)
        final = self.G4(output1)
        mul = self.G5([final,X1])
        final_output = self.G6(mul)
        return final_output
```



b) AGCN

- **Adapted Global Convolutional Network (AGCN):**

- AGCN will get the input from the output of the "conv block" of  $C_1$
- In all the above layers we will be using the padding="same" and stride=(1,1)
- so that we can have the input and output matrices of same size

- **Example:**

- Assume the matrix shape of the input is (128,128,32) then the output it will be (128,128,32)

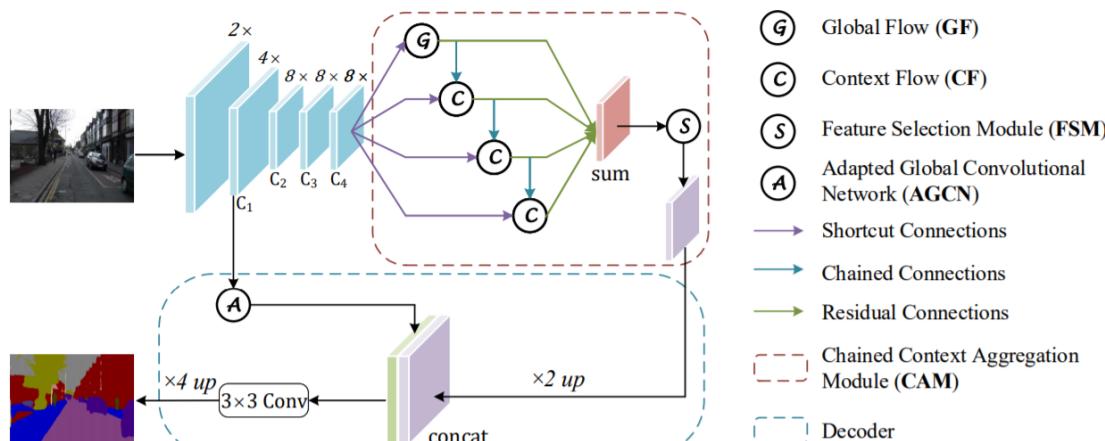
```
In [ ]: #refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/Conv2D
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/GlobalAveragePooling2D
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/BatchNormalization
```

```
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/Activation
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/add
#refrence taken from https://www.tensorflow.org/api_docs/python/tf/keras/layers/UpSampling2D
class agcn(tf.keras.layers.Layer):
    def __init__(self, filters,stride):
        super().__init__()
        self.F1 = filters
        self.stride1,self.stride2 = stride
        self.G1= Conv2D(self.F1, (7, 1), strides=self.stride1,name='conv1', padding="same", kernel_initializer=glorot_uniform_initializer())
        self.G2 = Conv2D(self.F1, (1, 7), strides=self.stride1, name='conv1', padding="same", kernel_initializer=glorot_uniform_initializer())

        self.G3 = Conv2D(self.F1, (1, 7), strides=self.stride1, name='conv1', padding="same", kernel_initializer=glorot_uniform_initializer())
        self.G4 = Conv2D(self.F1, (7, 1), strides=self.stride1, name='conv1', padding="same", kernel_initializer=glorot_uniform_initializer())
        self.G5 = Add()
        self.G6 = Conv2D(self.F1, (3, 3), strides=self.stride1, name='conv1', padding="same", kernel_initializer=glorot_uniform_initializer())
        self.G7 = Add()

    def call(self, X):
        # please implement the above mentioned architecture
        X1 = self.G1(X)
        X2 = self.G2(X1)

        X3 = self.G3(X)
        X4 = self.G4(X3)
        add1 = self.G5([X2,X4])
        X5 = self.G6(add1)
        add2 = self.G7([X5,add1])
        return add2
```



- as shown in the architecture, after we get the AGCN it will get concatenated with the FSM output
- If we observe the shapes both AGCN and FSM will have same height and weight
- we will be concatenating both these outputs over the last axis
- The concatenated output will be passed to a conv layers with filters = number of classes in our data set and the activation function = 'relu'
- we will be using padding="same" which results in the same size feature map
- If you observe the shape of matrix, it will be 4x times less than the original image
- to make it equal to the original output shape, we will do 4x times upsampling of rows and columns
- apply **upsampling** with bilinear pooling as interpolation technique
- Finally we will be applying sigmoid activation.
- Example:
  - Assume the matrix shape of AGCN is (128,128,32) and FSM is (128,128,32) the concatenation will make it (128, 128, 64)

- Applying conv layer will make it (128,128,21)
- Finally applying upsampling will make it (512, 512, 21)
- Applying sigmoid will result in the same matrix (512, 512, 21)

```
In [ ]: X_input_1 = Input(shape=(512,512,3))

# Stage 1
X = Conv2D(64, (3, 3), name='conv1', padding="same", kernel_initializer=glorot_uniform(seed=0))(X_input_1)
X = BatchNormalization(axis=3, name='bn_conv1')(X)
X = Activation('relu')(X)
X = MaxPooling2D((2, 2), strides=(2, 2))(X)
print(X.shape)

(None, 256, 256, 64)
```

```
In [ ]: !pip install git+https://github.com/qubvel/segmentation_models

Collecting git+https://github.com/qubvel/segmentation_models
  Cloning https://github.com/qubvel/segmentation_models to /tmp/pip-req-build-y1_uakb8
    Running command git clone -q https://github.com/qubvel/segmentation_models /tmp/pip-req-build-y1_uakb8
      Running command git submodule update --init --recursive -q
Requirement already satisfied: keras_applications<=1.0.8,>=1.0.7 in /usr/local/lib/python3.7/dist-packages (from segmentation-models==1.0.1) (1.0.8)
Requirement already satisfied: image-classifiers==1.0.0 in /usr/local/lib/python3.7/dist-packages (from segmentation-models==1.0.1) (1.0.0)
Requirement already satisfied: efficientnet==1.0.0 in /usr/local/lib/python3.7/dist-packages (from segmentation-models==1.0.1) (1.0.0)
Requirement already satisfied: scikit-image in /usr/local/lib/python3.7/dist-packages (from efficientnet==1.0.0->segmentation-models==1.0.1) (0.16.2)
Requirement already satisfied: h5py in /usr/local/lib/python3.7/dist-packages (from keras_applications<=1.0.8,>=1.0.7->segmentation-models==1.0.1) (3.1.0)
Requirement already satisfied: numpy>=1.9.1 in /usr/local/lib/python3.7/dist-packages (from keras_applications<=1.0.8,>=1.0.7->segmentation-models==1.0.1) (1.19.5)
Requirement already satisfied: cached-property in /usr/local/lib/python3.7/dist-packages (from h5py->keras_applications<=1.0.8,>=1.0.7->segmentation-models==1.0.1) (1.5.2)
Requirement already satisfied: networkx>=2.0 in /usr/local/lib/python3.7/dist-packages (from scikit-image->efficientnet==1.0.0->segmentation-models==1.0.1) (2.5.1)
Requirement already satisfied: scipy>=0.19.0 in /usr/local/lib/python3.7/dist-packages (from scikit-image->efficientnet==1.0.0->segmentation-models==1.0.1) (1.4.1)
Requirement already satisfied: matplotlib!=3.0.0,>=2.0.0 in /usr/local/lib/python3.7/dist-packages (from scikit-image->efficientnet==1.0.0->segmentation-models==1.0.1) (3.2.2)
Requirement already satisfied: imageio>=2.3.0 in /usr/local/lib/python3.7/dist-packages (from scikit-image->efficientnet==1.0.0->segmentation-models==1.0.1) (2.4.1)
```

```
Requirement already satisfied: pillow>=4.3.0 in /usr/local/lib/python3.7/dist-packages (from scikit-image->efficientnet==1.0.0->segmentation-models==1.0.1) (7.1.2)
Requirement already satisfied: PyWavelets>=0.4.0 in /usr/local/lib/python3.7/dist-packages (from scikit-image->efficientnet==1.0.0->segmentation-models==1.0.1) (1.1.1)
Requirement already satisfied: python-dateutil>=2.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib!=3.0.0,>=2.0.0->scikit-image->efficientnet==1.0.0->segmentation-models==1.0.1) (2.8.1)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib!=3.0.0,>=2.0.0->scikit-image->efficientnet==1.0.0->segmentation-models==1.0.1) (1.3.1)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.7/dist-packages (from matplotlib!=3.0.0,>=2.0.0->scikit-image->efficientnet==1.0.0->segmentation-models==1.0.1) (0.10.0)
Requirement already satisfied: pyparsing!=2.0.4,!>=2.1.2,!>=2.1.6,>=2.0.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib!=3.0.0,>=2.0.0->scikit-image->efficientnet==1.0.0->segmentation-models==1.0.1) (2.4.7)
Requirement already satisfied: six in /usr/local/lib/python3.7/dist-packages (from cycler>=0.10->matplotlib!=3.0.0,>=2.0.0->scikit-image->efficientnet==1.0.0->segmentation-models==1.0.1) (1.15.0)
Requirement already satisfied: decorator<5,>=4.3 in /usr/local/lib/python3.7/dist-packages (from networkx>=2.0->scikit-image->efficientnet==1.0.0->segmentation-models==1.0.1) (4.4.2)
```

```
In [ ]: #model architecture 1
X_input = X
cb = convolutional_block([4,4,8],[1,2])
I1_input_blk=cb_(X_input)
ib_1=identity_block([4,4,8],1)
input_2=ib_1(I1_input_blk)

#model architecture 2
X_input = input_2
cb = convolutional_block([8,8,16],[1,2])
I2_input_blk=cb_(X_input)
ib_21=identity_block([8,8,16],1)

cb_22=ib_21(I2_input_blk)
ib_2=identity_block([8,8,16],1)

input_3=ib_2(cb_22)

#model architecture 3
X_input = input_3
cb = convolutional_block([16,16,32],[1,1])
I3_input_blk=cb_(X_input)
ib_31=identity_block([16,16,32],1)

c31=ib_31(I3_input_blk)
ib_32=identity_block([16,16,32],1)
```

```

c32=ib_32(c31)
i3=identity_block([16,16,32],1)
input_4=i3(c32)

#model architecture 4
X_input = input_4
cb=convolutional_block([32,32,64],[1,1])
I4_input_blk=cb_(X_input)
ib_41=identity_block([32,32,64],1)
c41=ib_41(I4_input_blk)
ib_42=identity_block([32,32,64],1)

c42=ib_42(c41)
ib_43=identity_block([32,32,64],1)

c43=ib_43(c42)
ib_44=identity_block([32,32,64],1)
input_5=ib_44(c43)

#model architecture
c=global_flow(32,1)
final_out=c(input_5) #global flow output
cfl = context_flow(32,[1,2])
output_1 = cfl([input_5, final_out])
output_2 = cfl([input_5, output_1])
output_3 = cfl([input_5, output_2])

add = tf.keras.layers.Add()([final_out, output_1, output_2, output_3])

fsm1 = fsm(32,[1,2])
fsm_output=fsm1(add) #feature selection module

agcn1 = agcn(32,[1,2])
agcn_output =agcn1(input_2) # adapted global convolution network

concatenated_output = tf.keras.layers.concatenate([fsm_output, agcn_output])

conv1=Conv2D(21, (3, 3), padding="same", kernel_initializer=glorot_uniform(seed=0))(concatenated_output)
upsampled = UpSampling2D(size = 4, interpolation = 'bilinear')(conv1)

```

```

output = Softmax()(upsampled)

model_2 = Model(inputs = X_input_1, outputs = output)

model_2.summary()

```

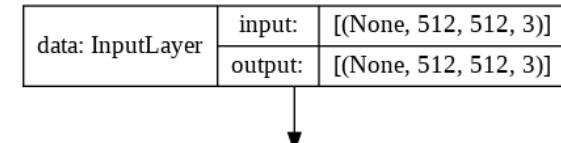
Model: "model\_2"

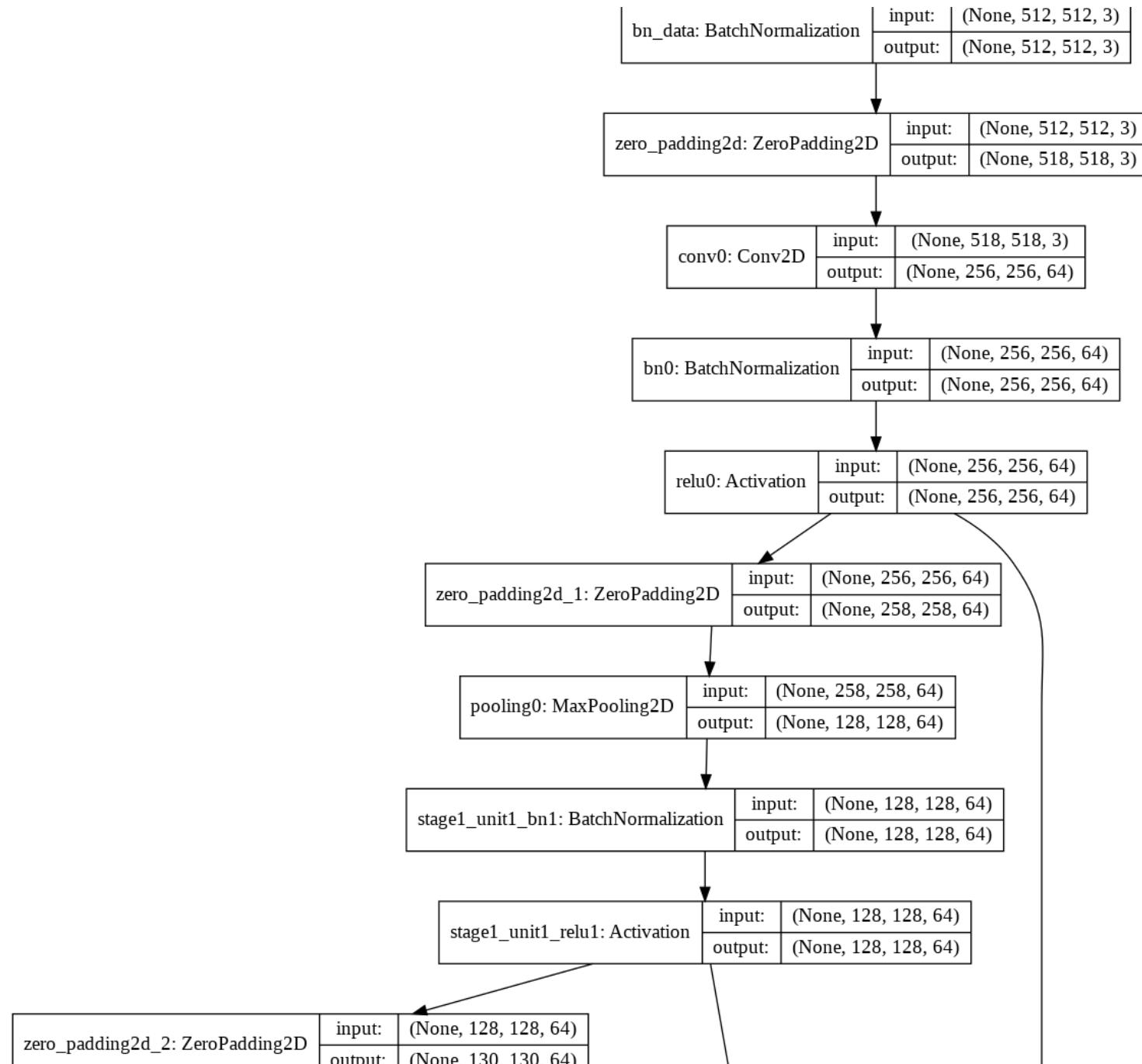
Layer (type)	Output Shape	Param #	Connected to
input_1 (InputLayer)	[ (None, 512, 512, 3) 0		
conv1 (Conv2D)	(None, 512, 512, 64) 1792		input_1[0][0]
bn_conv1 (BatchNormalization)	(None, 512, 512, 64) 256		conv1[0][0]
activation (Activation)	(None, 512, 512, 64) 0		bn_conv1[0][0]
max_pooling2d (MaxPooling2D)	(None, 256, 256, 64) 0		activation[0][0]
convolutional_block (convolutio (None, 128, 128, 8) 5160			max_pooling2d[0][0]
identity_block (identity_block) (None, 128, 128, 8) 288			convolutional_block[0][0]
convolutional_block_1 (convolut (None, 64, 64, 16) 2160			identity_block[0][0]
identity_block_1 (identity_bloc (None, 64, 64, 16) 992			convolutional_block_1[0][0]
identity_block_2 (identity_bloc (None, 64, 64, 16) 992			identity_block_1[0][0]
convolutional_block_2 (convolut (None, 64, 64, 32) 8160			identity_block_2[0][0]
identity_block_3 (identity_bloc (None, 64, 64, 32) 3648			convolutional_block_2[0][0]
identity_block_4 (identity_bloc (None, 64, 64, 32) 3648			identity_block_3[0][0]
identity_block_5 (identity_bloc (None, 64, 64, 32) 3648			identity_block_4[0][0]
convolutional_block_3 (convolut (None, 64, 64, 64) 31680			identity_block_5[0][0]
identity_block_6 (identity_bloc (None, 64, 64, 64) 13952			convolutional_block_3[0][0]
identity_block_7 (identity_bloc (None, 64, 64, 64) 13952			identity_block_6[0][0]

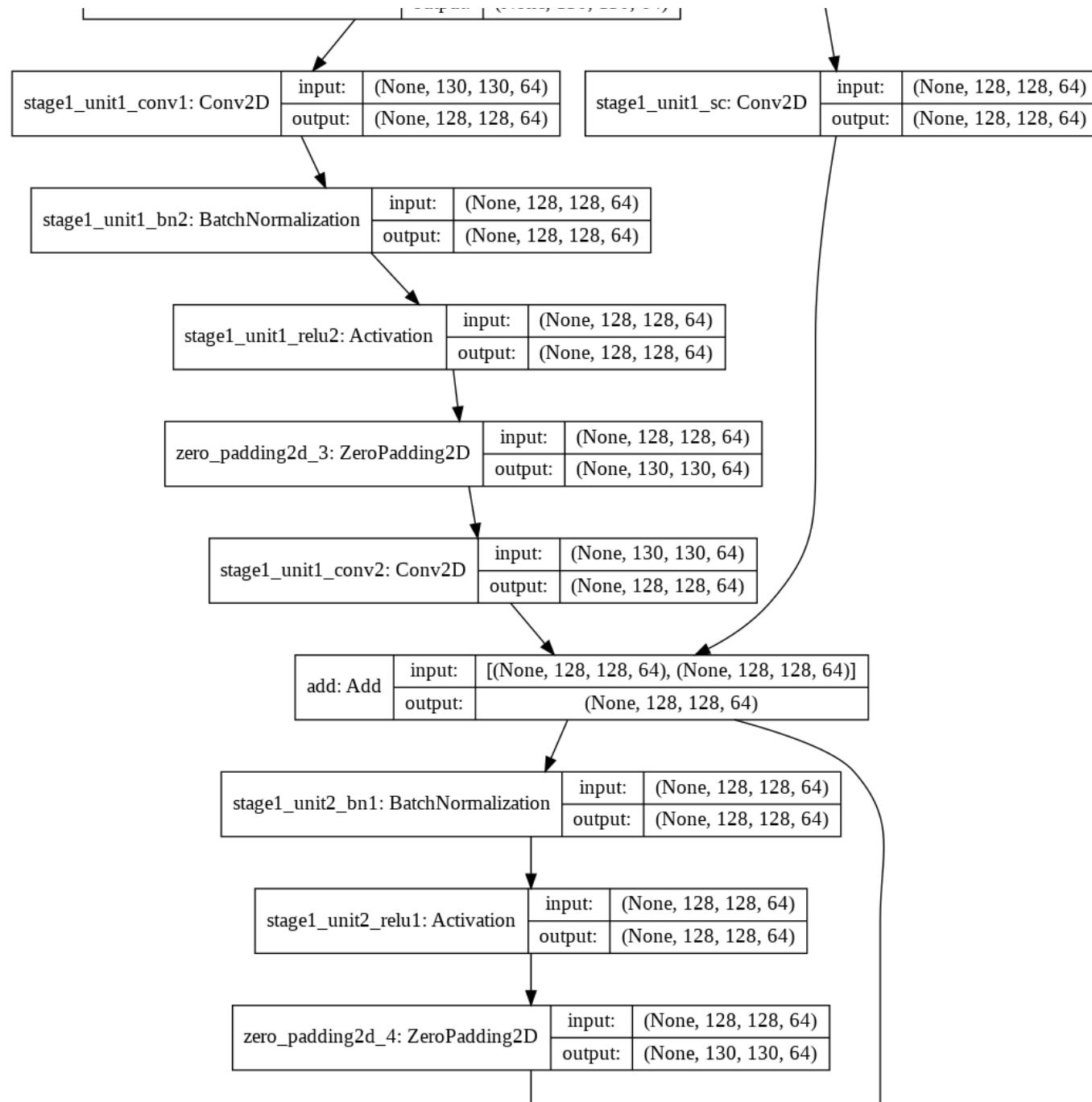
identity_block_8 (identity_bloc	(None, 64, 64, 64)	13952	identity_block_7[0][0]
identity_block_9 (identity_bloc	(None, 64, 64, 64)	13952	identity_block_8[0][0]
global_flow (global_flow)	(None, 64, 64, 32)	2336	identity_block_9[0][0]
context_flow (context_flow)	(None, 64, 64, 32)	39040	identity_block_9[0][0] global_flow[0][0] identity_block_9[0][0] context_flow[0][0] identity_block_9[0][0] context_flow[1][0]
add_31 (Add)	(None, 64, 64, 32)	0	global_flow[0][0] context_flow[0][0] context_flow[1][0] context_flow[2][0]
fsm (fsm)	(None, 128, 128, 32)	9376	add_31[0][0]
agcn (agcn)	(None, 128, 128, 32)	27296	identity_block[0][0]
concatenate (Concatenate)	(None, 128, 128, 64)	0	fsm[0][0] agcn[0][0]
conv2d (Conv2D)	(None, 128, 128, 21)	12117	concatenate[0][0]
up_sampling2d_3 (UpSampling2D)	(None, 512, 512, 21)	0	conv2d[0][0]
softmax (Softmax)	(None, 512, 512, 21)	0	up_sampling2d_3[0][0]
<hr/> <hr/> <hr/>			
Total params:	208,397		
Trainable params:	205,789		
Non-trainable params:	2,608		

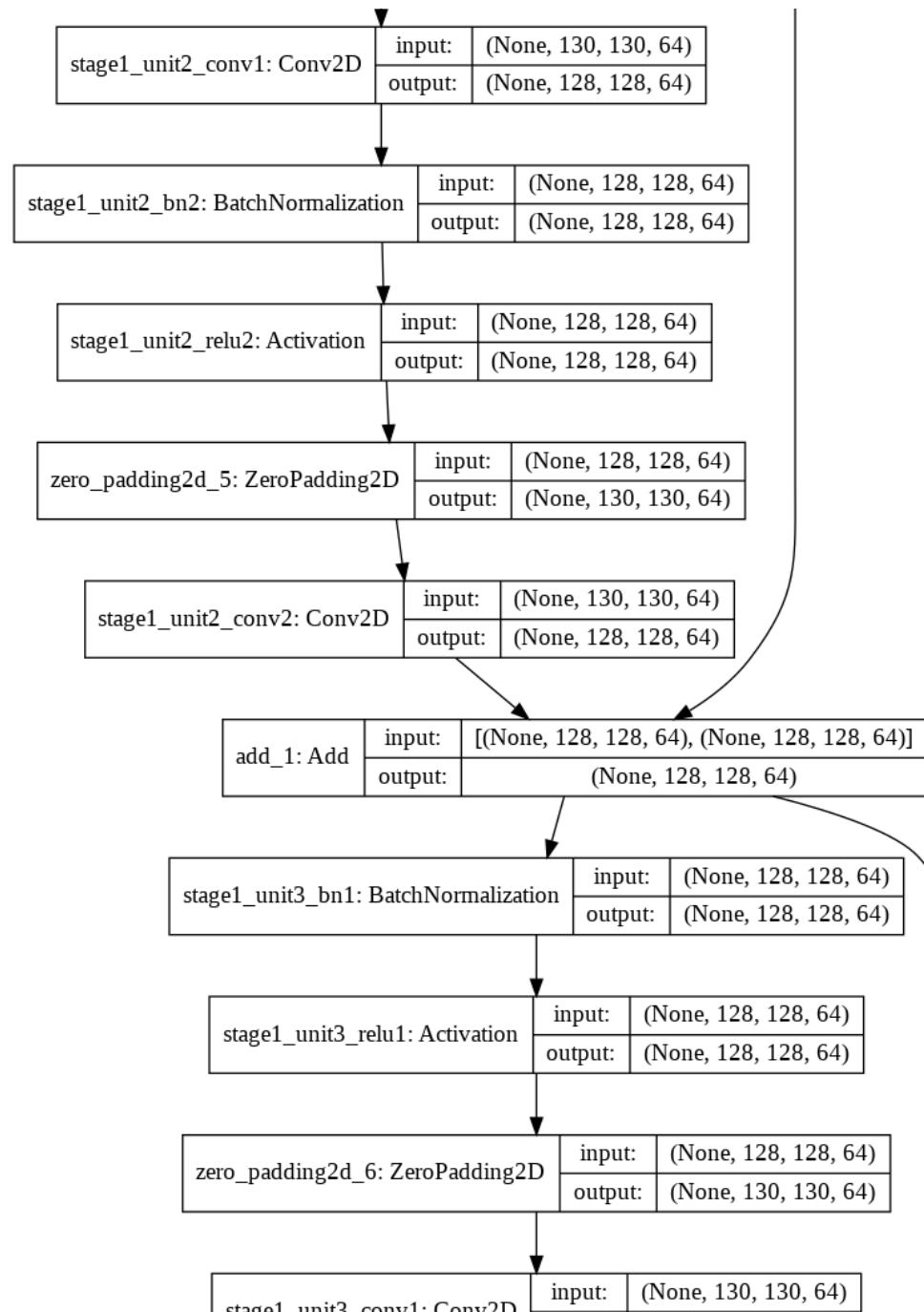
```
In [ ]: tf.keras.utils.plot_model(
    model, to_file='model4.png', show_shapes=True, show_layer_names=True,
    rankdir='TB')
```

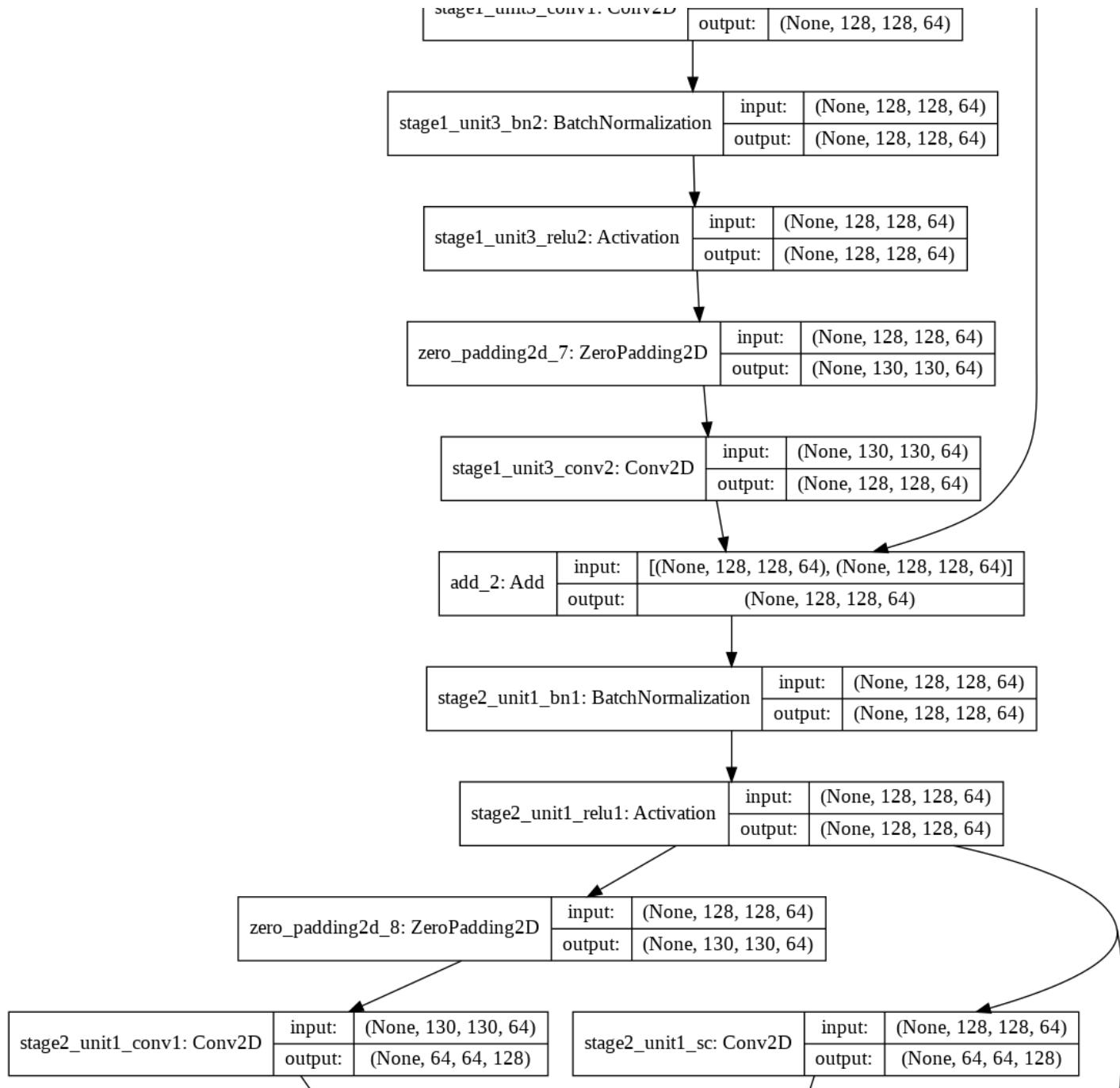
Out[ ]:

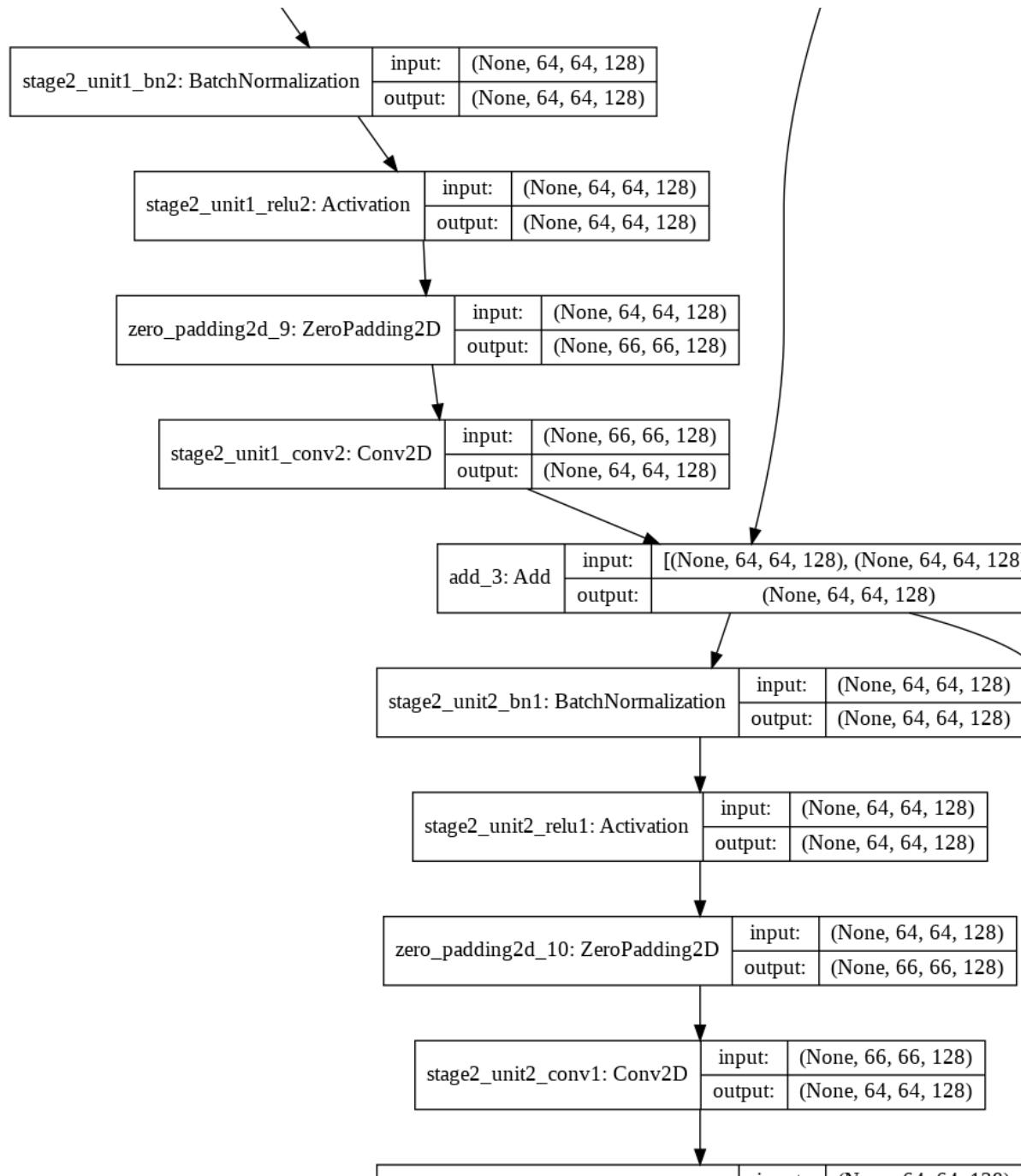


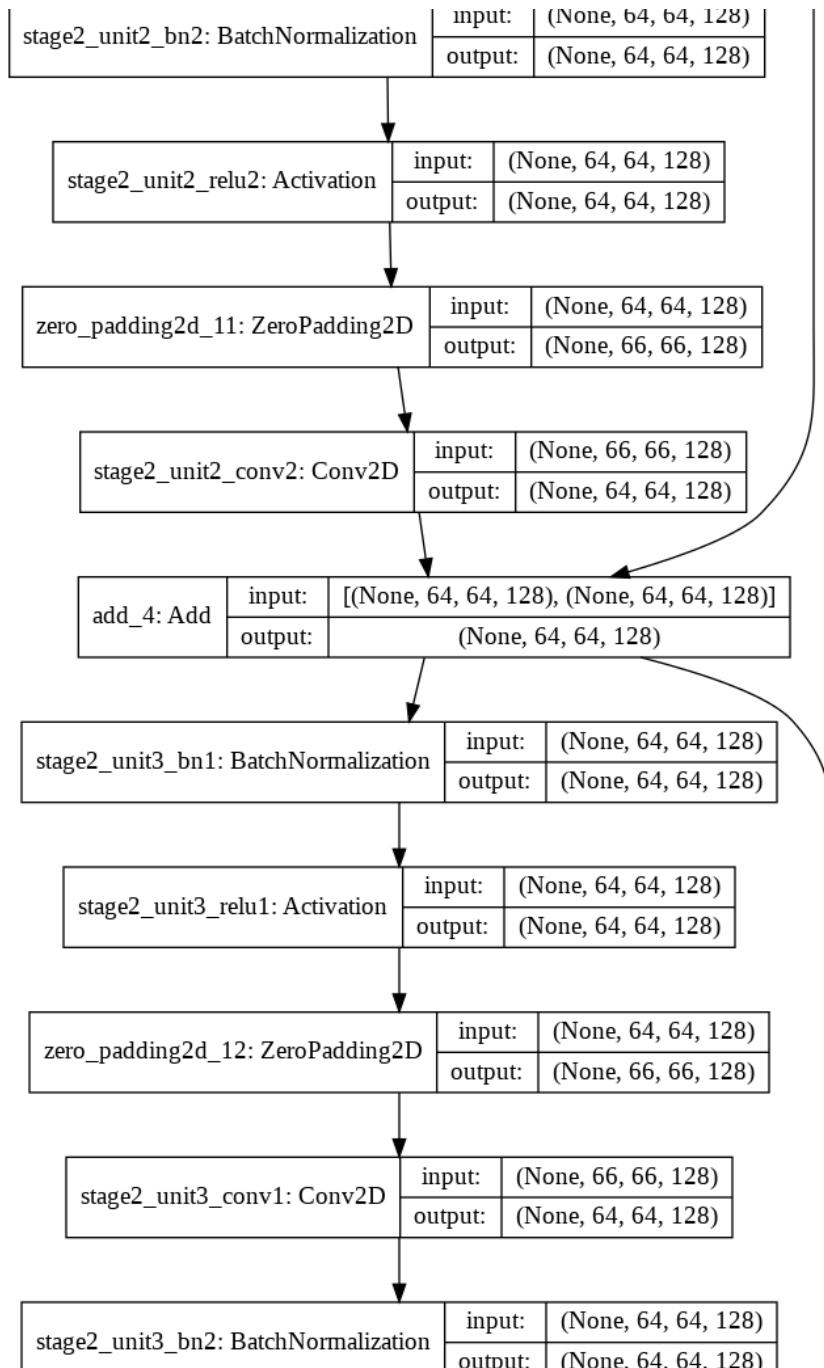


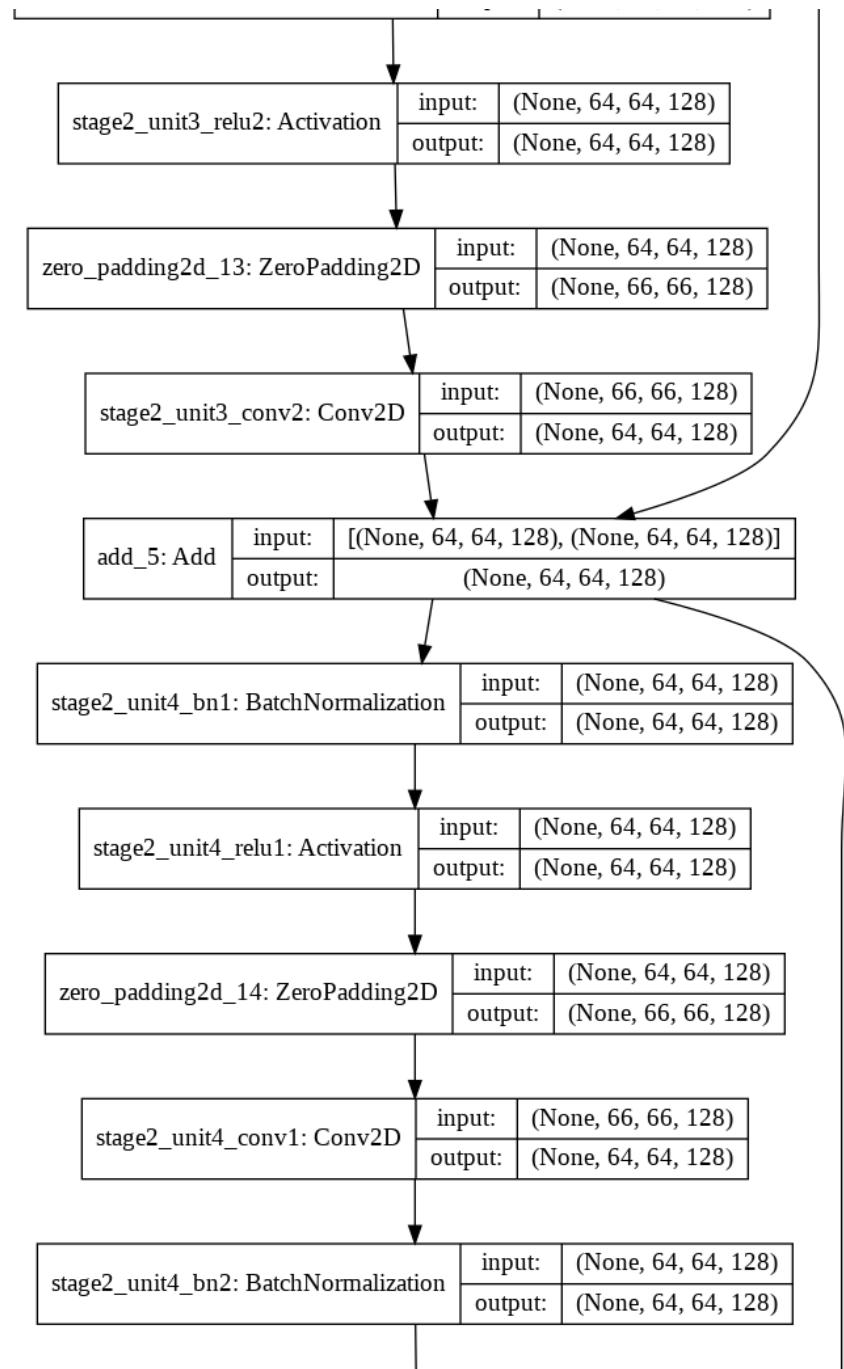


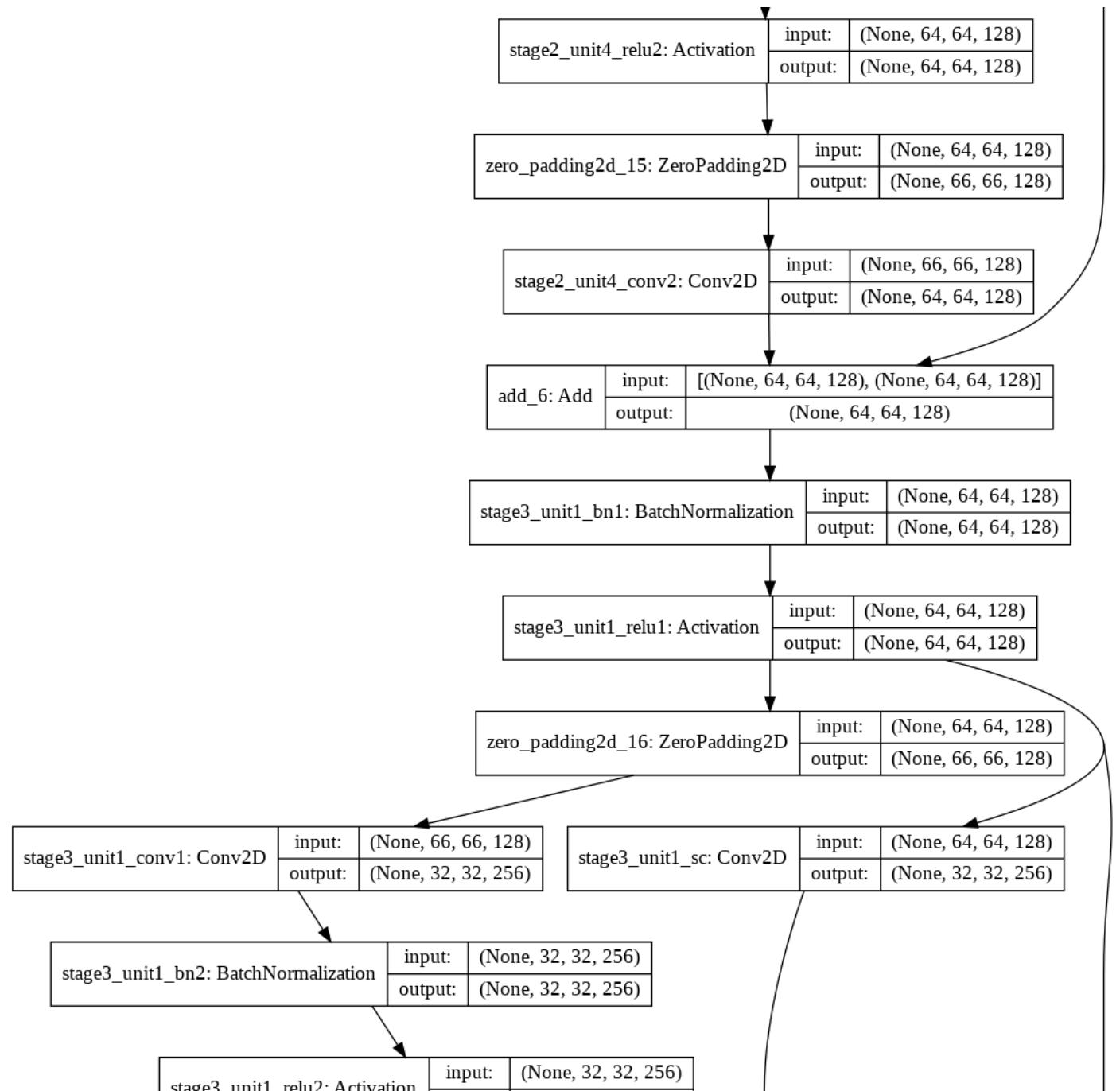


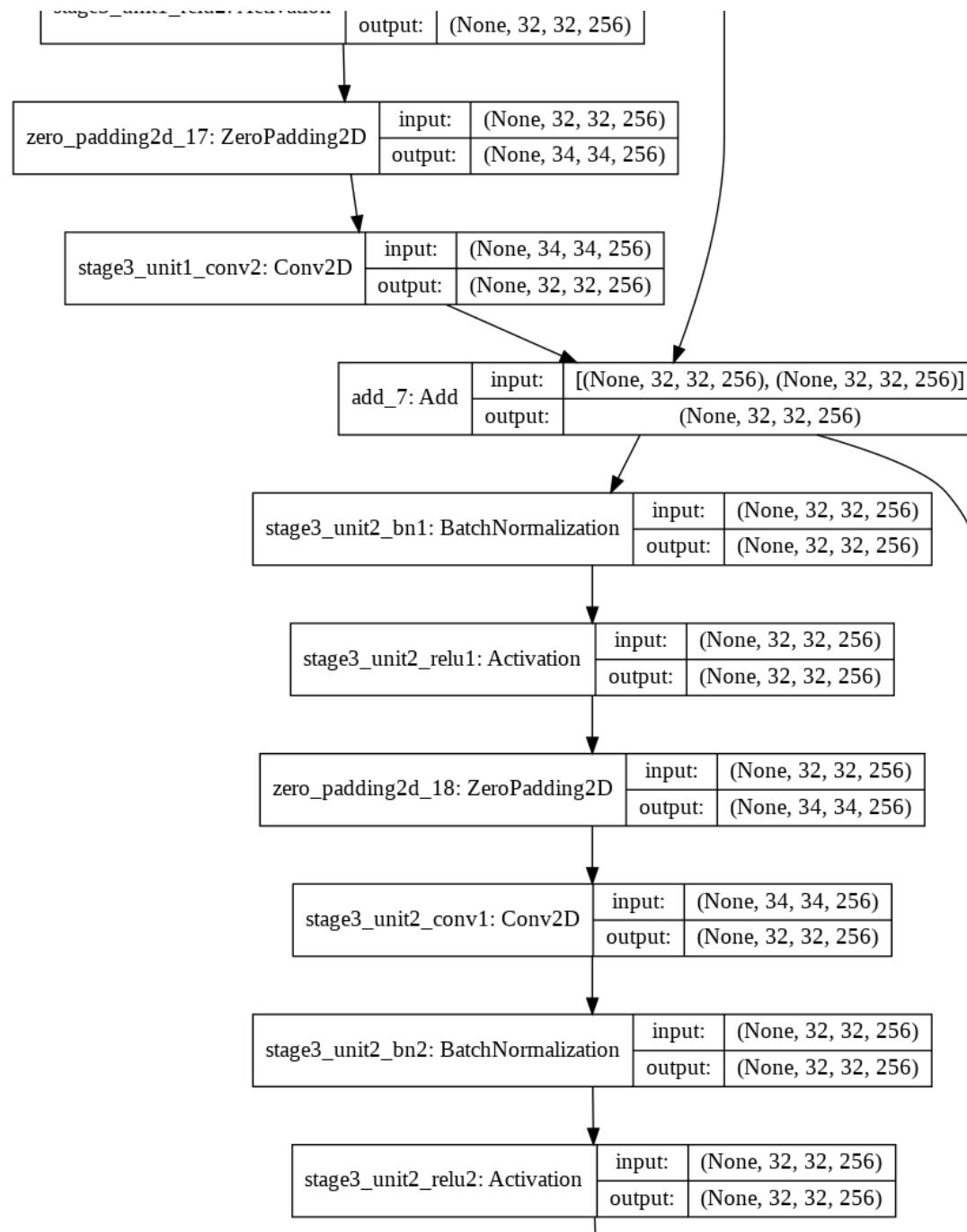


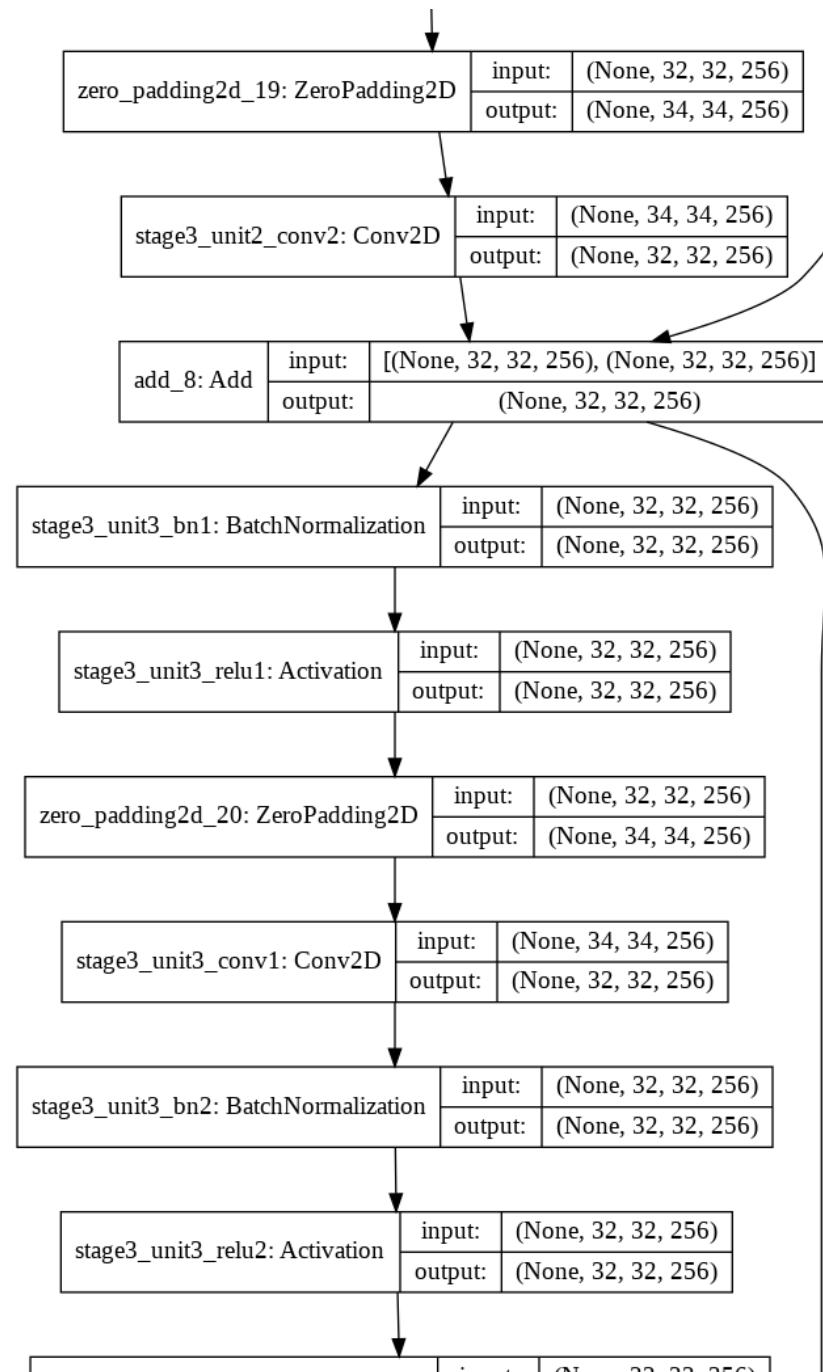


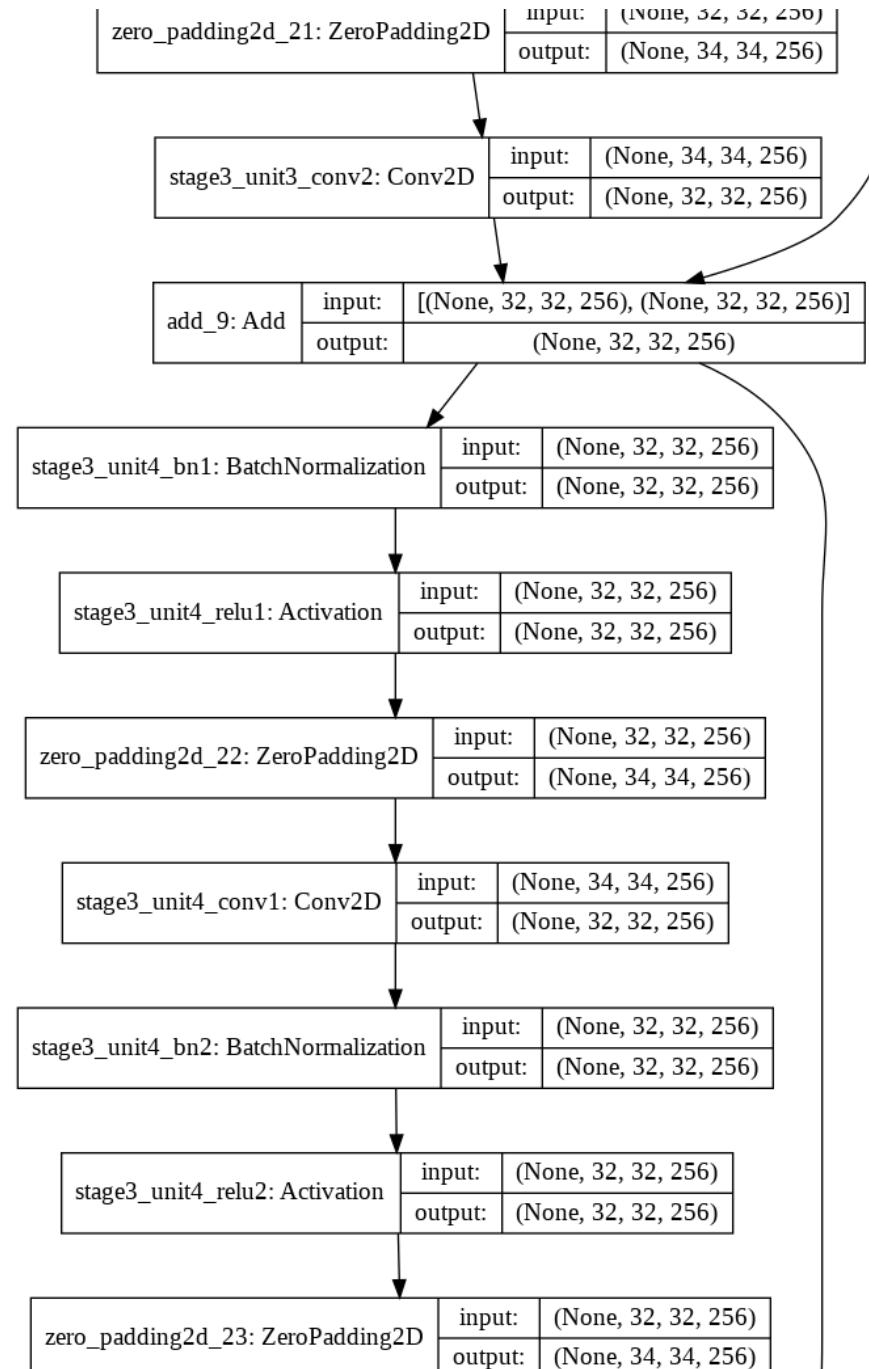


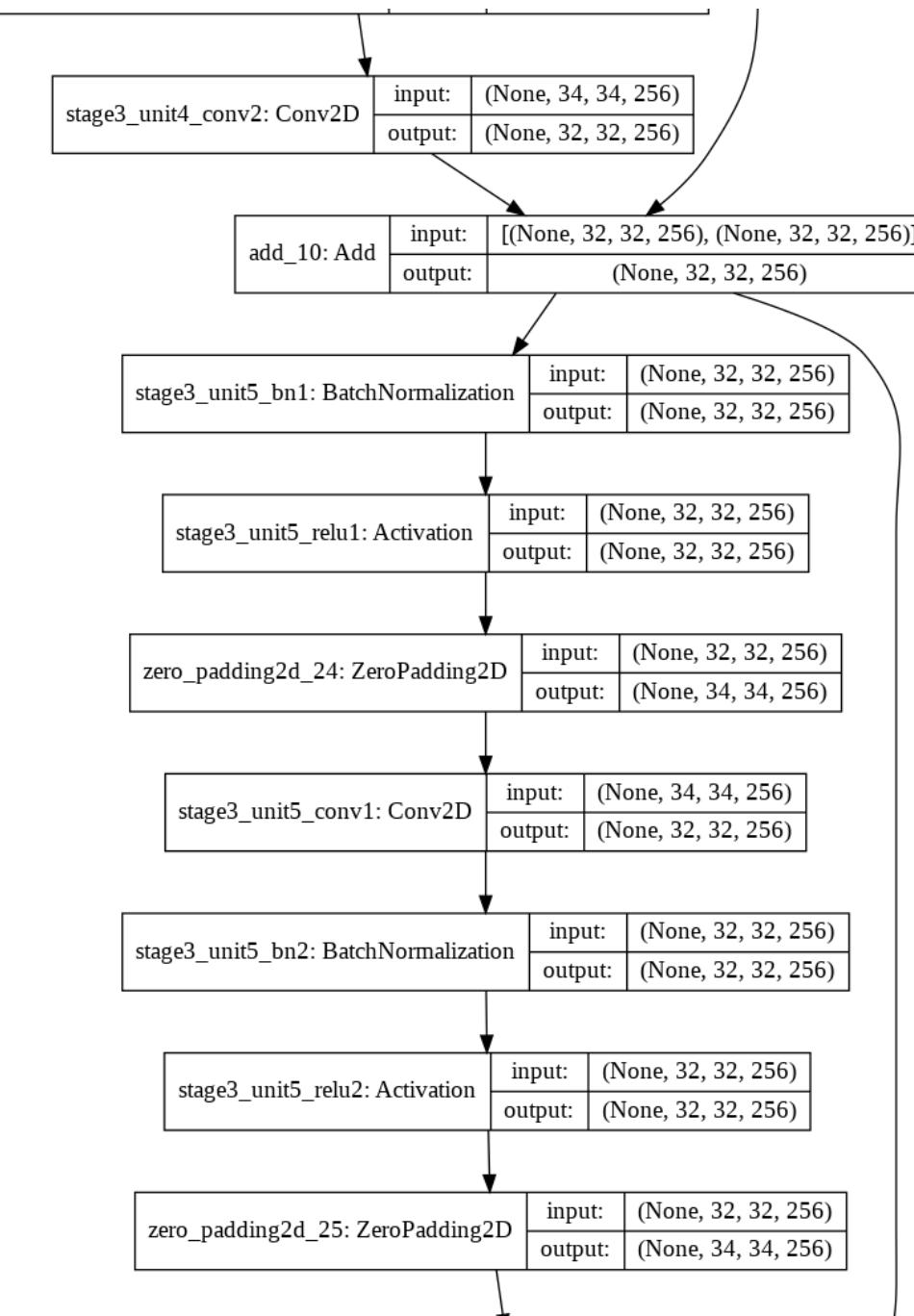


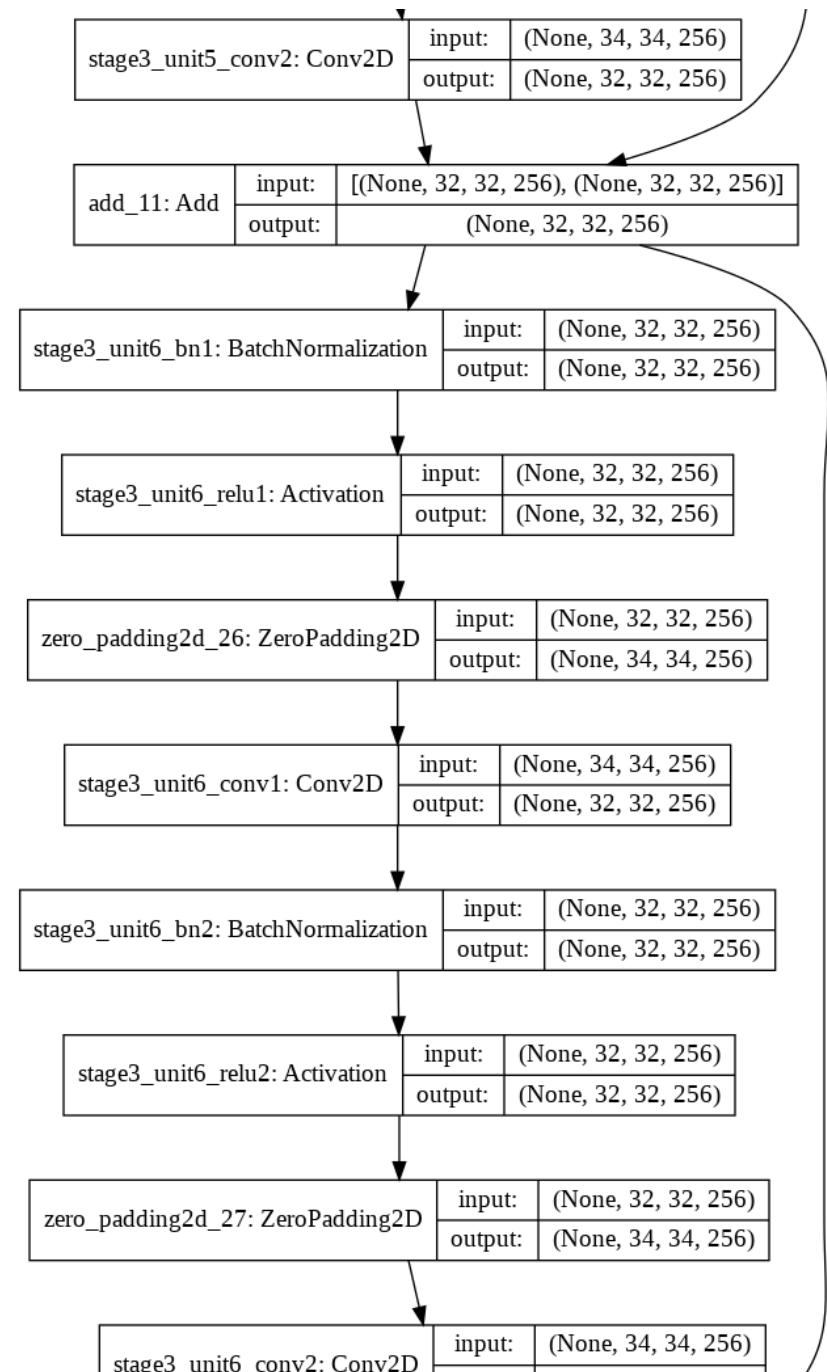


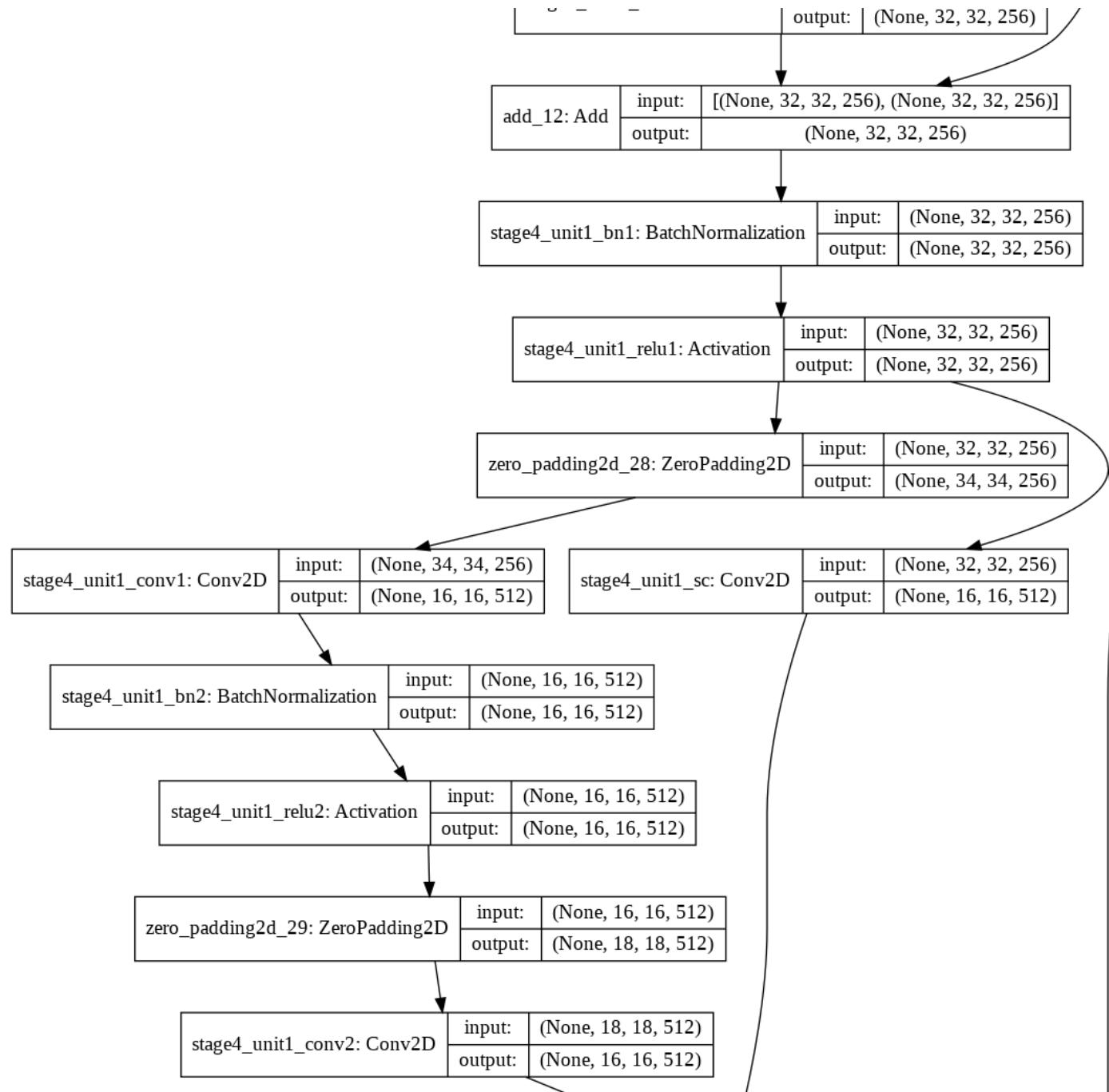


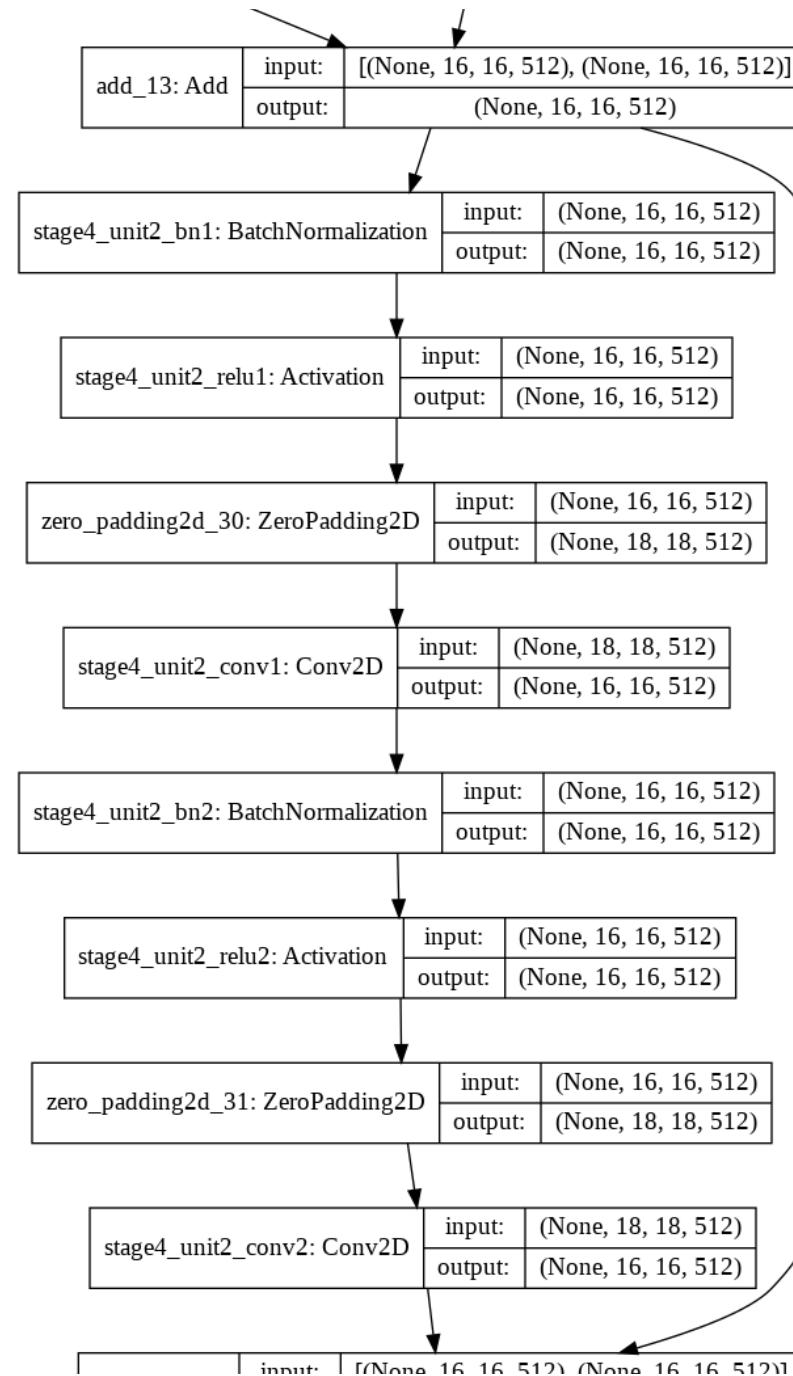


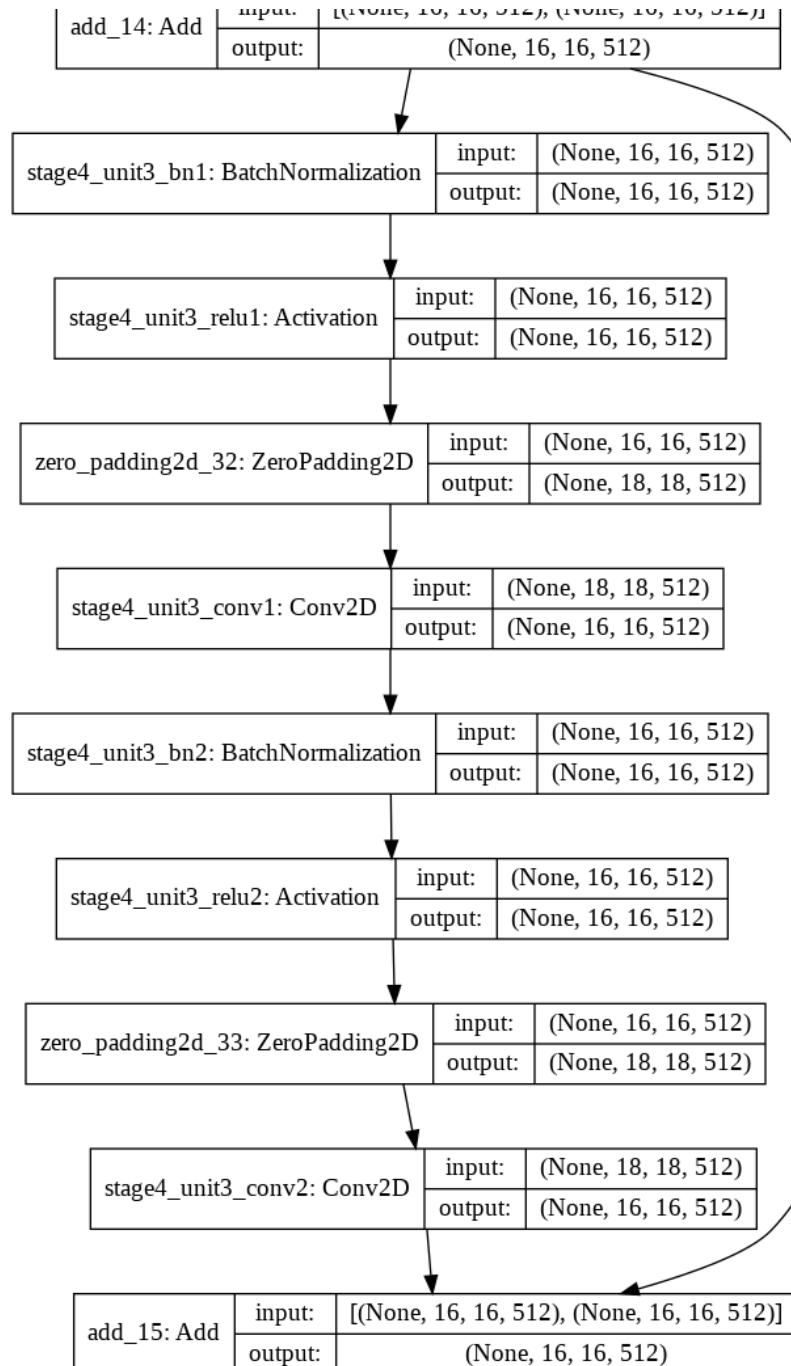


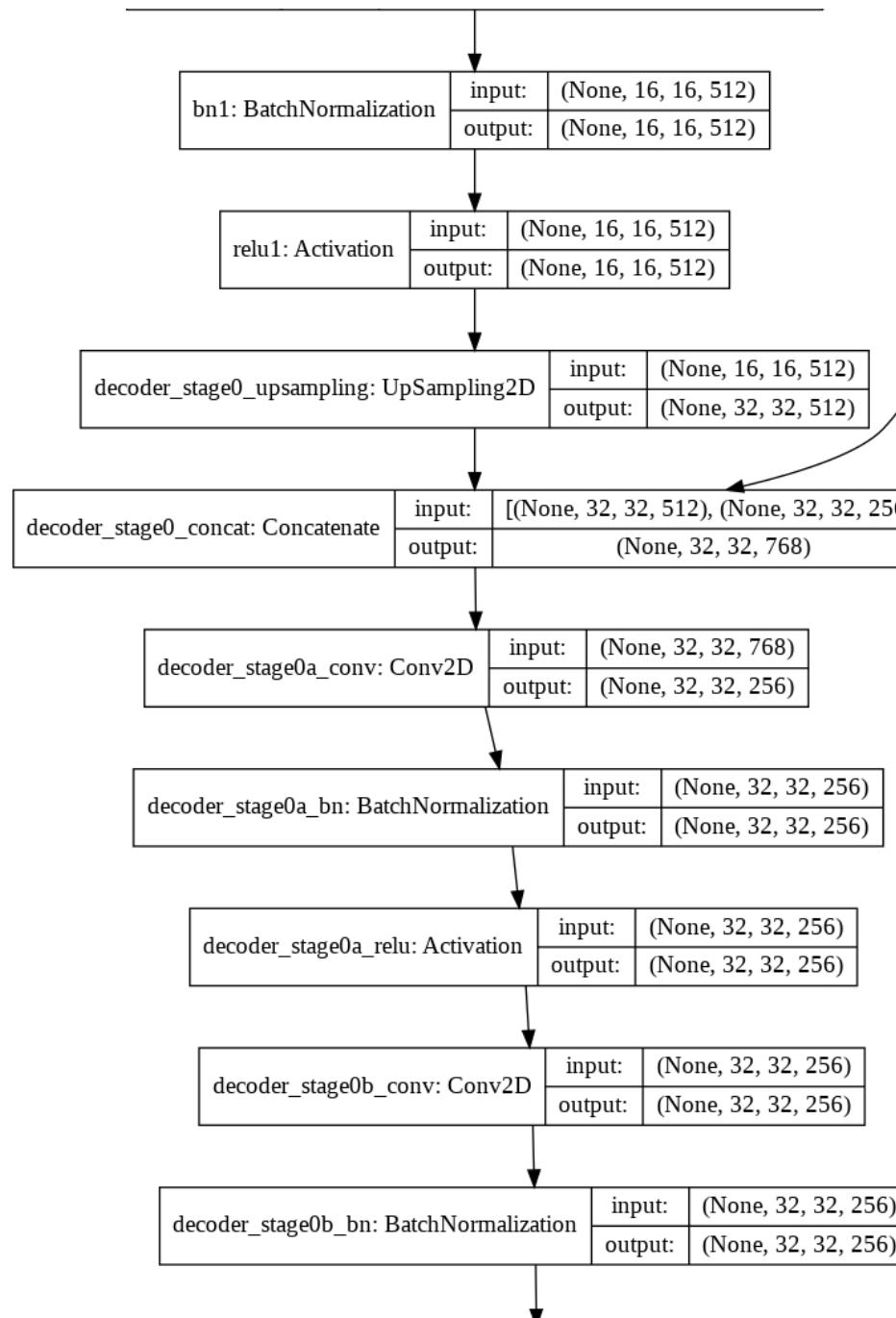


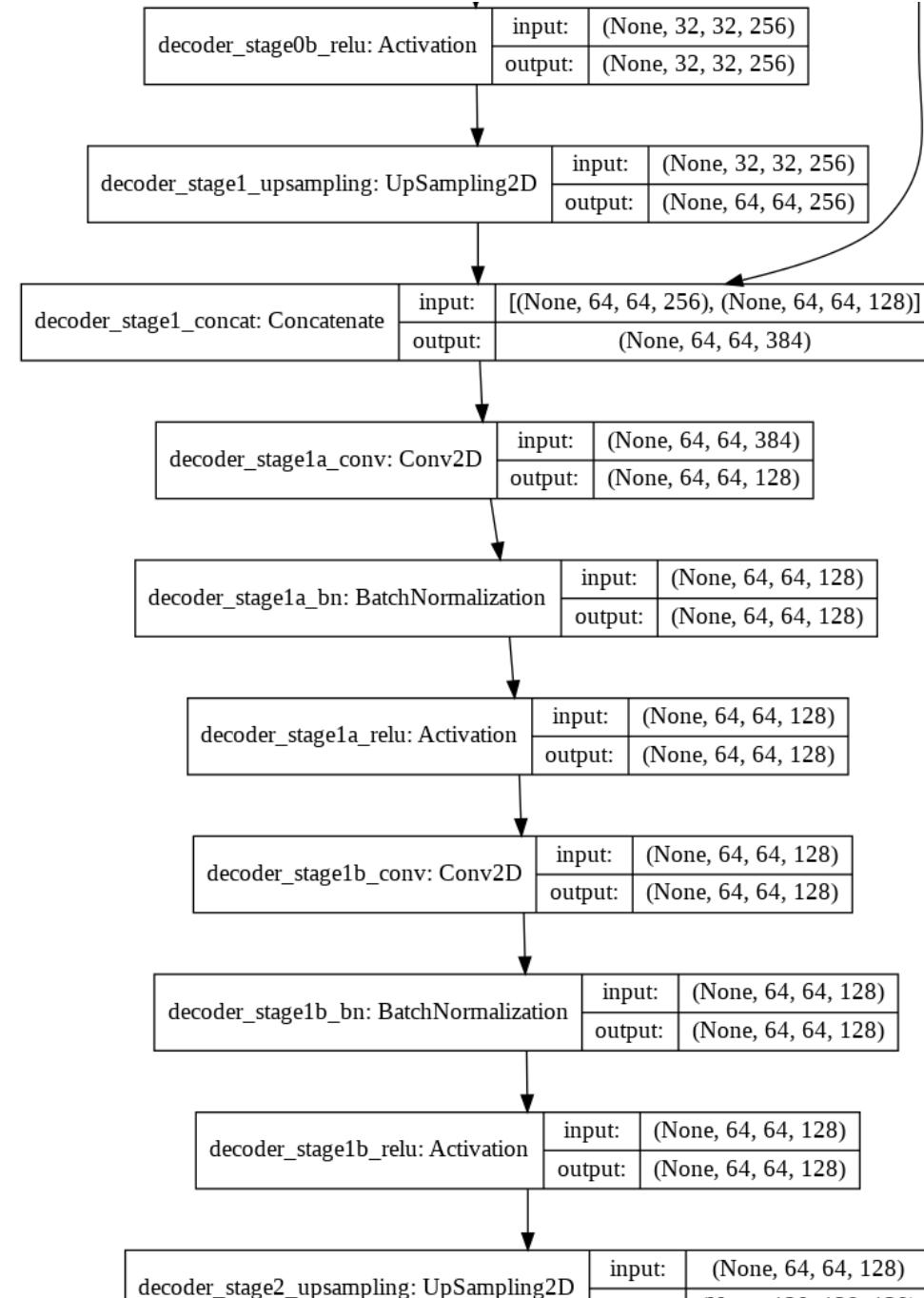


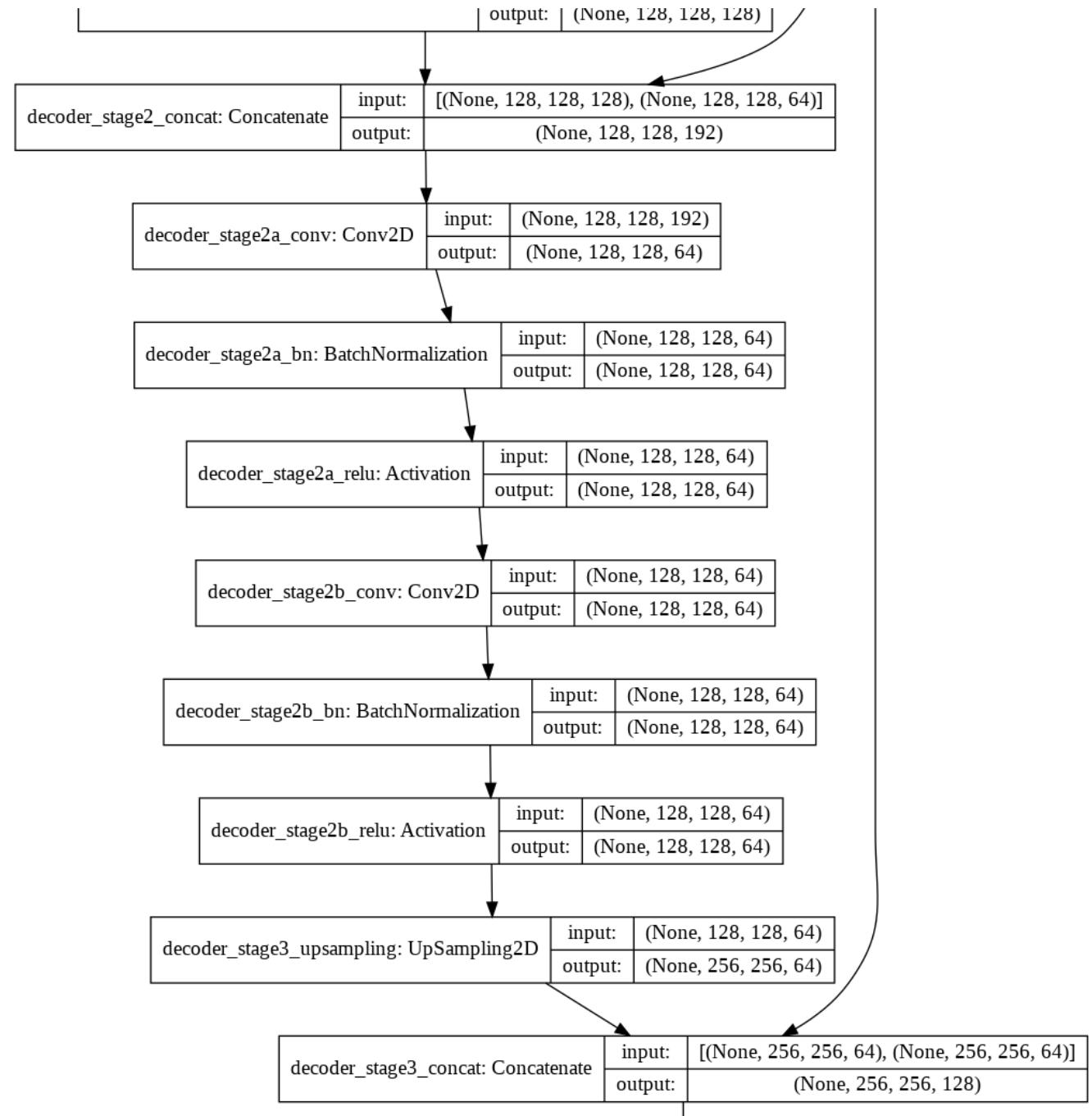


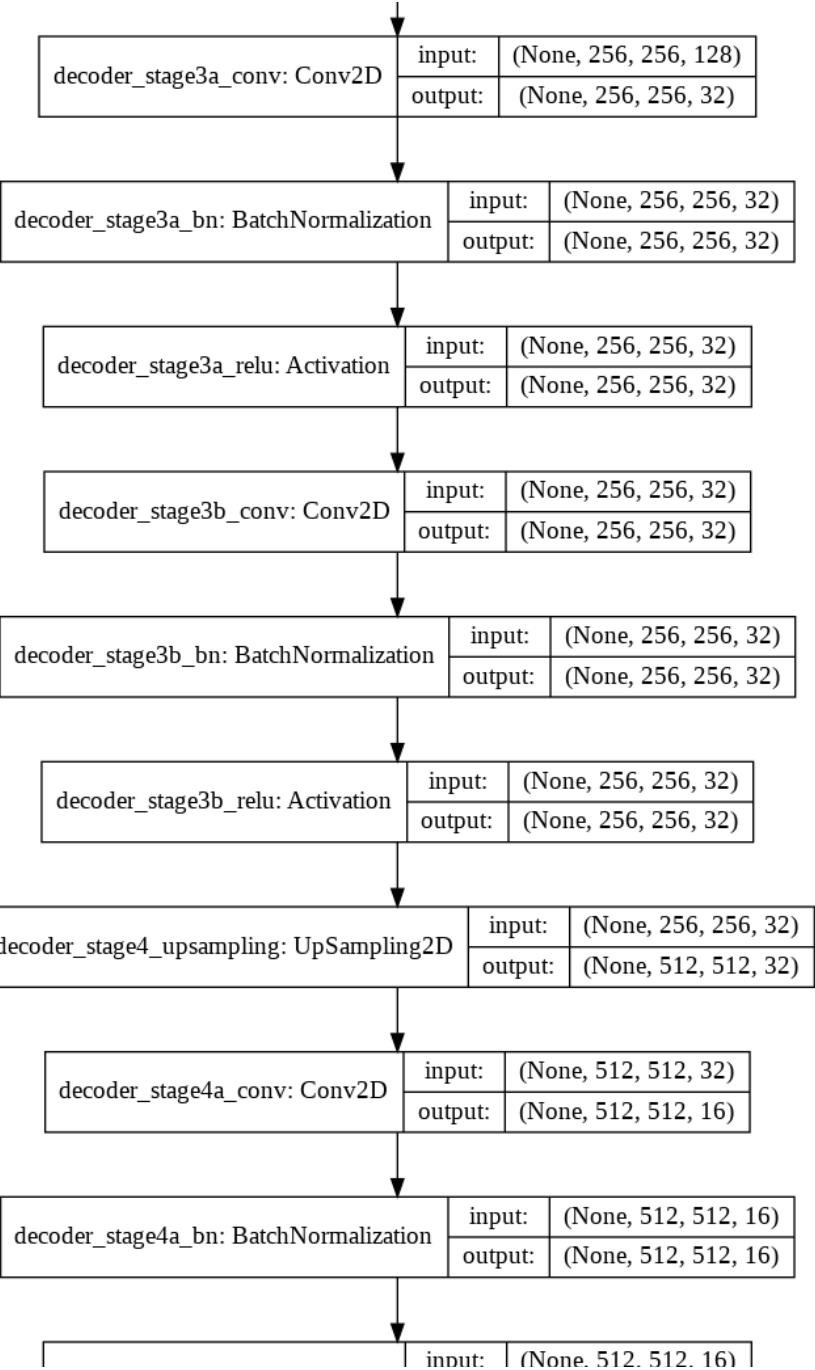


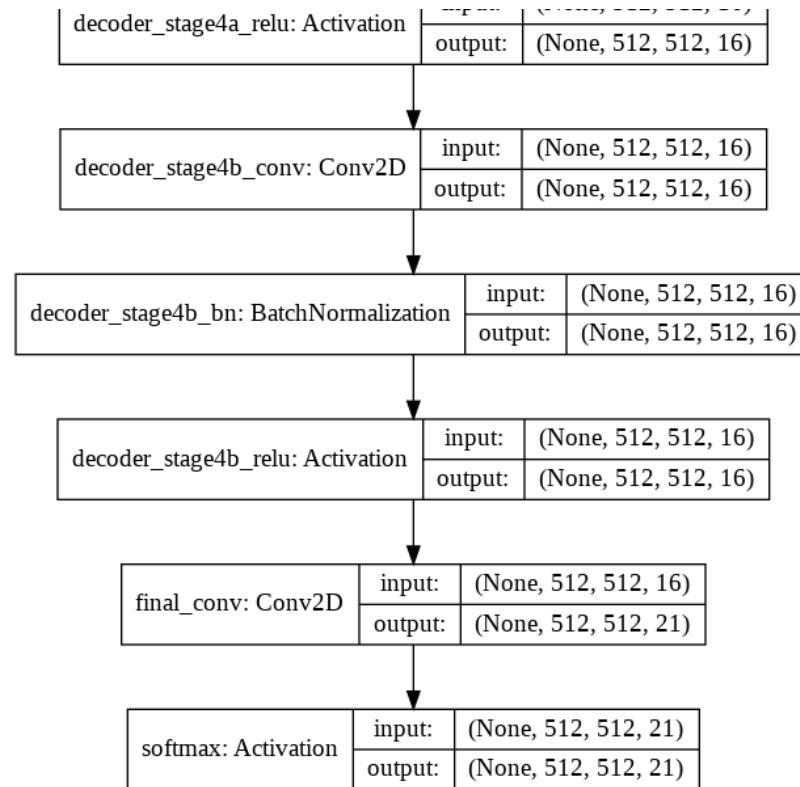












## Usefull tips:

- use "interpolation=cv2.INTER\_NEAREST" when you are resizing the image, so that it won't mess with the number of classes
- keep the images in the square shape like 256 \* 256 or 512 \* 512
- Carefull when you are converting the (W, H) output image into (W, H, Classes)
- Even for the canet, use the segmentation model's losses and the metrics
- The goal of this assignment is make you familiar in with computer vision problems, image preprocessing, building complex architectures and implementing research papers, so that in future you will be very confident in industry
- you can use the tensorboard logss to see how is yours model's training happening
- use callbacks that you have implemented in previous assignments

## Things to keep in mind

- You need to train above built model and plot the train and test losses.
- Make sure there is no overfitting, you are free play with the identity blocks in C1, C2, C3, C4
- before we apply the final sigmoid activation, you can add more conv layers or BN or dropouts etc
- you are free to use any other optimizer or learning rate or weights init or regularizations

```
In [ ]: import segmentation_models as sm
from segmentation_models.metrics import iou_score
from segmentation_models.metrics import IOUScore
from segmentation_models import Unet
```

```
In [ ]: optim = tf.keras.optimizers.Adam()
```

```
In [ ]: focal_loss = sm.losses.cce_dice_loss
metric = IOUScore(threshold=.6)
model_2.compile(optim, focal_loss, metrics=[metric])
```

```
In [ ]: # Dataset for train images
CLASSES = list(np.unique(list(label_clr.values())))
tr_dataset = Dataset(X_train, augmentation = True)
te_dataset = Dataset(X_test, augmentation = False)

BATCH_SIZE=6
tr_dataloader = Dataloder(tr_dataset, batch_size=BATCH_SIZE, shuffle=True)
te_dataloader = Dataloder(te_dataset, batch_size=BATCH_SIZE, shuffle=True)
```

```
In [ ]: print(tr_dataloader[0][0].shape)
print(tr_dataloader[0][1].shape)
assert tr_dataloader[0][0].shape == (BATCH_SIZE, 512, 512, 3)
assert tr_dataloader[0][1].shape == (BATCH_SIZE, 512, 512, 21)

(6, 512, 512, 3)
(6, 512, 512, 21)
```

```
In [ ]: callbacks = [
    tf.keras.callbacks.ReduceLROnPlateau(monitor='val_iou_score', min_lr=0.000001, factor=0.8, patience=2),
]
```

```
In [ ]: history=model_2.fit(train_dataloader, steps_per_epoch=50, epochs=30,
                           validation_data=test_dataloader, callbacks=callbacks)
```

---

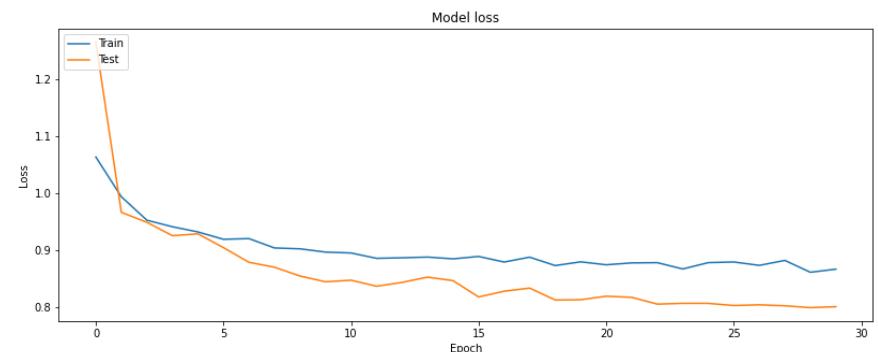
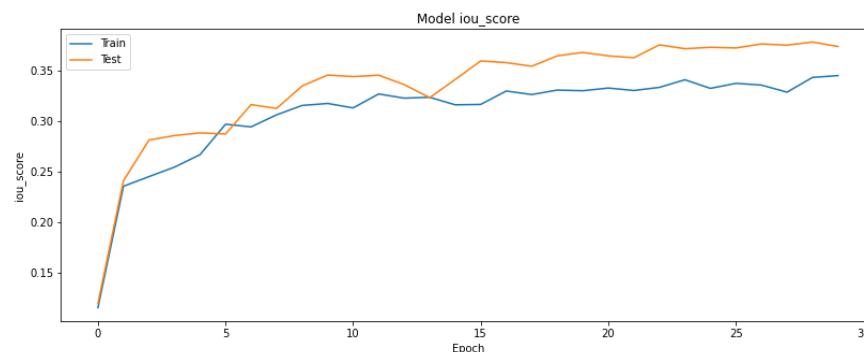
```
Epoch 1/30
50/50 [=====] - 118s 2s/step - loss: 1.0637 - iou_score: 0.1150 - val_loss: 1.2657 - val_iou
_score: 0.1192
Epoch 2/30
50/50 [=====] - 110s 2s/step - loss: 0.9937 - iou_score: 0.2353 - val_loss: 0.9663 - val_iou
_score: 0.2408
Epoch 3/30
50/50 [=====] - 110s 2s/step - loss: 0.9526 - iou_score: 0.2449 - val_loss: 0.9489 - val_iou
_score: 0.2811
Epoch 4/30
50/50 [=====] - 109s 2s/step - loss: 0.9410 - iou_score: 0.2543 - val_loss: 0.9253 - val_iou
_score: 0.2856
Epoch 5/30
50/50 [=====] - 110s 2s/step - loss: 0.9319 - iou_score: 0.2666 - val_loss: 0.9285 - val_iou
_score: 0.2882
Epoch 6/30
50/50 [=====] - 109s 2s/step - loss: 0.9190 - iou_score: 0.2968 - val_loss: 0.9043 - val_iou
_score: 0.2871
Epoch 7/30
50/50 [=====] - 110s 2s/step - loss: 0.9202 - iou_score: 0.2942 - val_loss: 0.8785 - val_iou
_score: 0.3162
Epoch 8/30
50/50 [=====] - 111s 2s/step - loss: 0.9037 - iou_score: 0.3061 - val_loss: 0.8699 - val_iou
_score: 0.3125
Epoch 9/30
50/50 [=====] - 111s 2s/step - loss: 0.9022 - iou_score: 0.3154 - val_loss: 0.8544 - val_iou
_score: 0.3347
Epoch 10/30
50/50 [=====] - 110s 2s/step - loss: 0.8965 - iou_score: 0.3174 - val_loss: 0.8443 - val_iou
_score: 0.3455
Epoch 11/30
50/50 [=====] - 109s 2s/step - loss: 0.8949 - iou_score: 0.3130 - val_loss: 0.8470 - val_iou
_score: 0.3440
Epoch 12/30
50/50 [=====] - 111s 2s/step - loss: 0.8855 - iou_score: 0.3268 - val_loss: 0.8364 - val_iou
_score: 0.3454
Epoch 13/30
50/50 [=====] - 111s 2s/step - loss: 0.8865 - iou_score: 0.3226 - val_loss: 0.8432 - val_iou
_score: 0.3361
Epoch 14/30
50/50 [=====] - 110s 2s/step - loss: 0.8877 - iou_score: 0.3235 - val_loss: 0.8525 - val_iou
_score: 0.3231
Epoch 15/30
50/50 [=====] - 110s 2s/step - loss: 0.8846 - iou_score: 0.3160 - val_loss: 0.8463 - val_iou
```

```
_score: 0.3411
Epoch 16/30
50/50 [=====] - 112s 2s/step - loss: 0.8888 - iou_score: 0.3164 - val_loss: 0.8176 - val_iou
_score: 0.3595
Epoch 17/30
50/50 [=====] - 110s 2s/step - loss: 0.8790 - iou_score: 0.3297 - val_loss: 0.8277 - val_iou
_score: 0.3578
Epoch 18/30
50/50 [=====] - 112s 2s/step - loss: 0.8875 - iou_score: 0.3262 - val_loss: 0.8332 - val_iou
_score: 0.3543
Epoch 19/30
50/50 [=====] - 114s 2s/step - loss: 0.8728 - iou_score: 0.3306 - val_loss: 0.8123 - val_iou
_score: 0.3646
Epoch 20/30
50/50 [=====] - 115s 2s/step - loss: 0.8793 - iou_score: 0.3300 - val_loss: 0.8127 - val_iou
_score: 0.3679
Epoch 21/30
50/50 [=====] - 114s 2s/step - loss: 0.8741 - iou_score: 0.3327 - val_loss: 0.8189 - val_iou
_score: 0.3646
Epoch 22/30
50/50 [=====] - 112s 2s/step - loss: 0.8775 - iou_score: 0.3302 - val_loss: 0.8169 - val_iou
_score: 0.3627
Epoch 23/30
50/50 [=====] - 117s 2s/step - loss: 0.8779 - iou_score: 0.3333 - val_loss: 0.8050 - val_iou
_score: 0.3754
Epoch 24/30
50/50 [=====] - 112s 2s/step - loss: 0.8668 - iou_score: 0.3408 - val_loss: 0.8064 - val_iou
_score: 0.3716
Epoch 25/30
50/50 [=====] - 111s 2s/step - loss: 0.8779 - iou_score: 0.3323 - val_loss: 0.8063 - val_iou
_score: 0.3730
Epoch 26/30
50/50 [=====] - 111s 2s/step - loss: 0.8791 - iou_score: 0.3373 - val_loss: 0.8025 - val_iou
_score: 0.3724
Epoch 27/30
50/50 [=====] - 112s 2s/step - loss: 0.8731 - iou_score: 0.3356 - val_loss: 0.8038 - val_iou
_score: 0.3764
Epoch 28/30
50/50 [=====] - 113s 2s/step - loss: 0.8818 - iou_score: 0.3286 - val_loss: 0.8021 - val_iou
_score: 0.3752
Epoch 29/30
50/50 [=====] - 111s 2s/step - loss: 0.8610 - iou_score: 0.3432 - val_loss: 0.7988 - val_iou
_score: 0.3783
Epoch 30/30
```

```
50/50 [=====] - 112s 2s/step - loss: 0.8665 - iou_score: 0.3450 - val_loss: 0.8005 - val_iou_score: 0.3738
```

```
In [ ]: # Plot training & validation iou_score values
plt.figure(figsize=(30, 5))
plt.subplot(121)
plt.plot(history.history['iou_score'])
plt.plot(history.history['val_iou_score'])
plt.title('Model iou_score')
plt.ylabel('iou_score')
plt.xlabel('Epoch')
plt.legend(['Train', 'Test'], loc='upper left')

# Plot training & validation loss values
plt.subplot(122)
plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train', 'Test'], loc='upper left')
plt.show()
```



```
In [ ]: #refrence taken from https://matplotlib.org/stable/gallery/images_contours_and_fields/image_masked.html
for p, i in enumerate(np.random.randint(0, len(X_test['image'].tolist()), size = 20)):
    #original image
    image = cv2.imread(X_test['image'].tolist()[i], cv2.IMREAD_UNCHANGED)
    image = cv2.resize(image, (512,512), interpolation = cv2.INTER_NEAREST)

    #predicted segmentation map
```

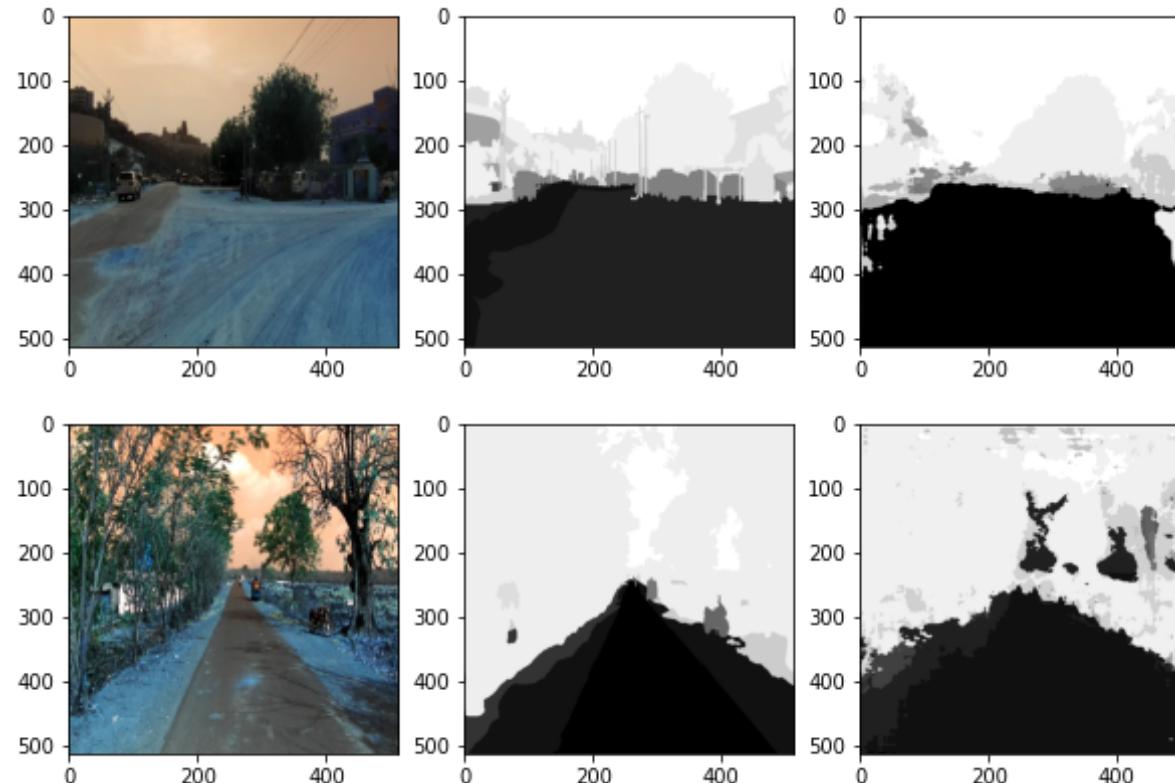
```

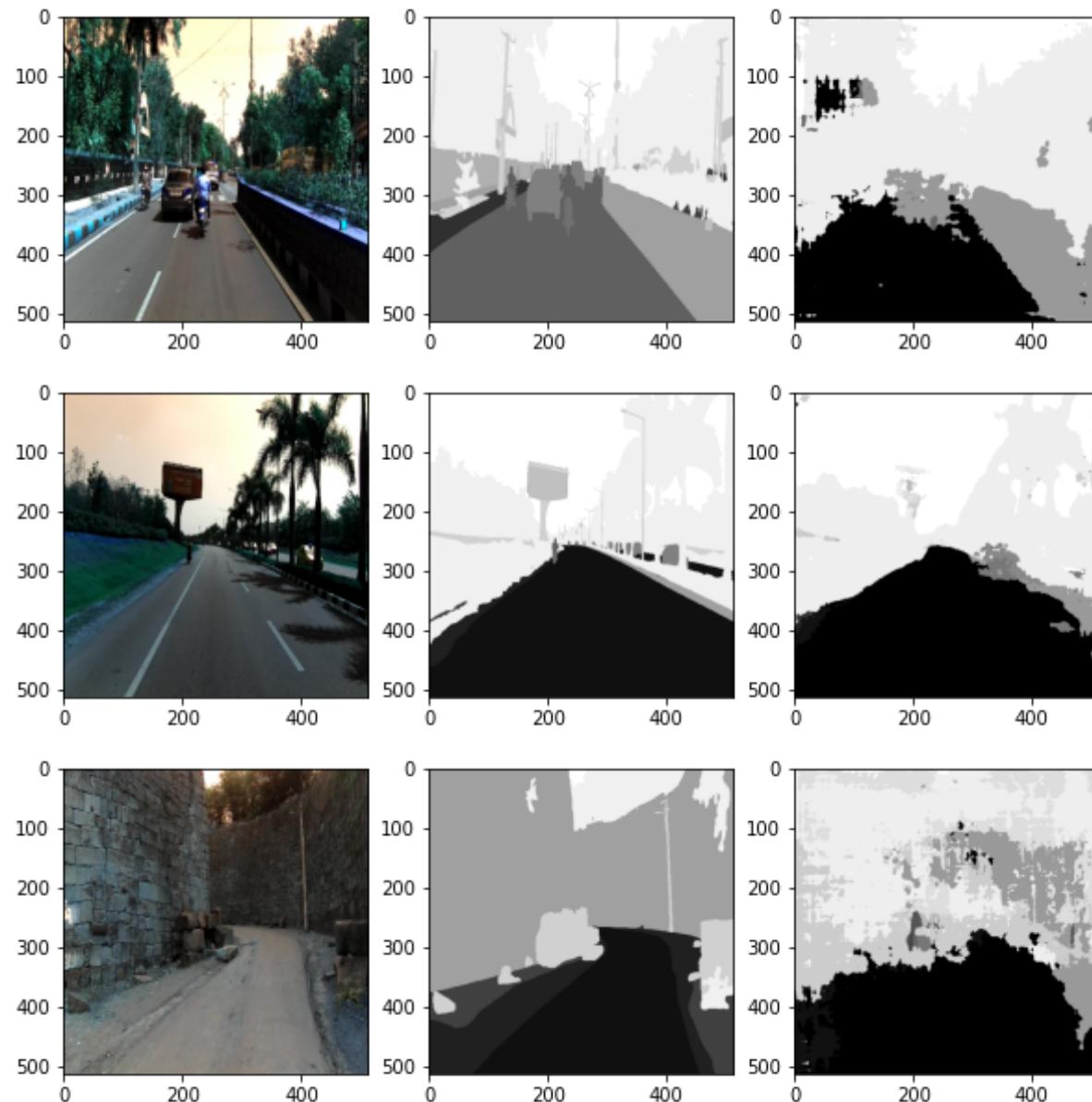
predicted = model_2.predict(image[np.newaxis,:,:,:])
pred_mask = tf.argmax(predicted, axis=-1)

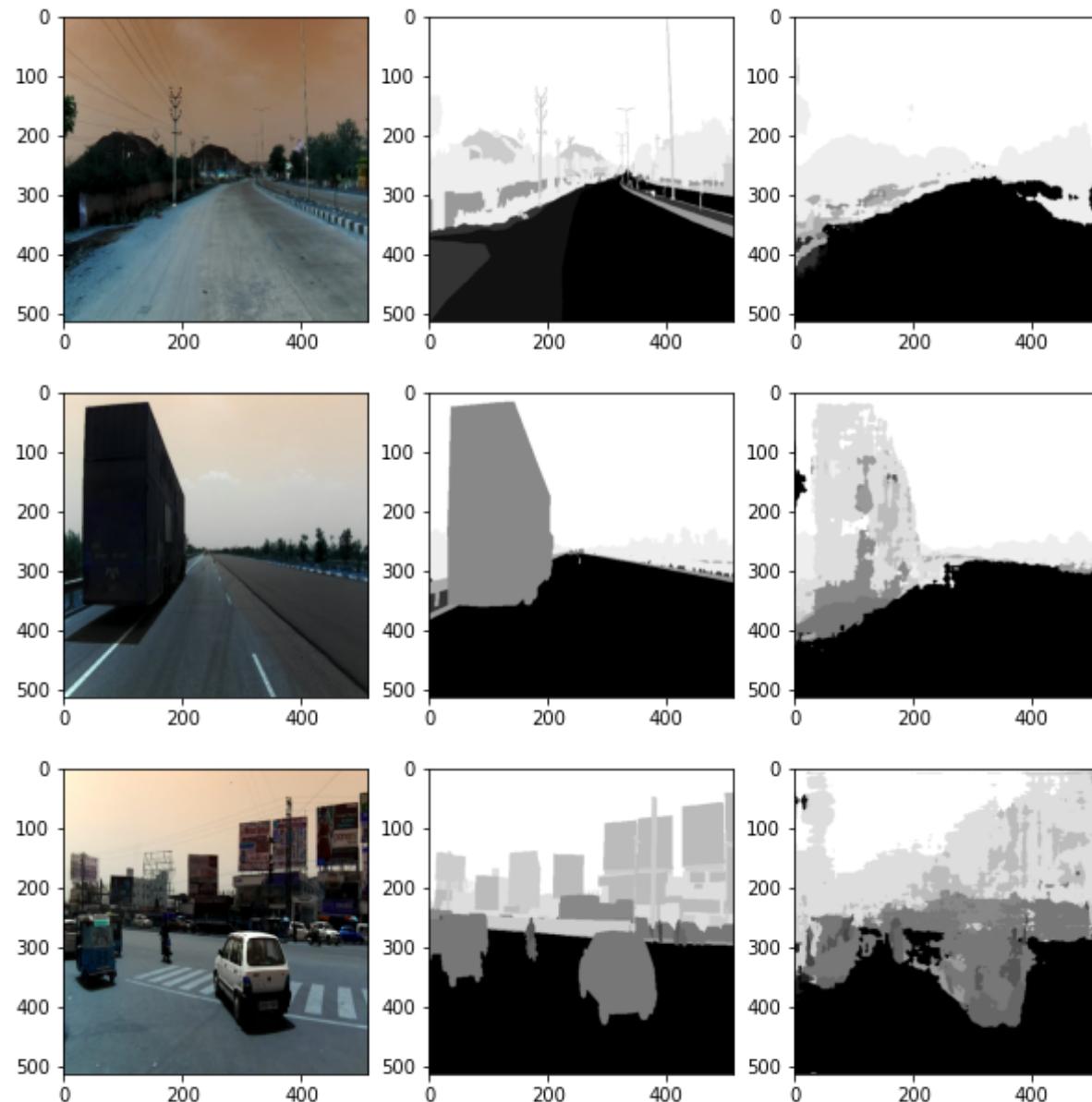
#original segmentation map
image_mask = cv2.imread(X_test['mask'].tolist()[i], cv2.IMREAD_UNCHANGED)
image_mask = cv2.resize(image_mask, (512,512), interpolation = cv2.INTER_NEAREST)

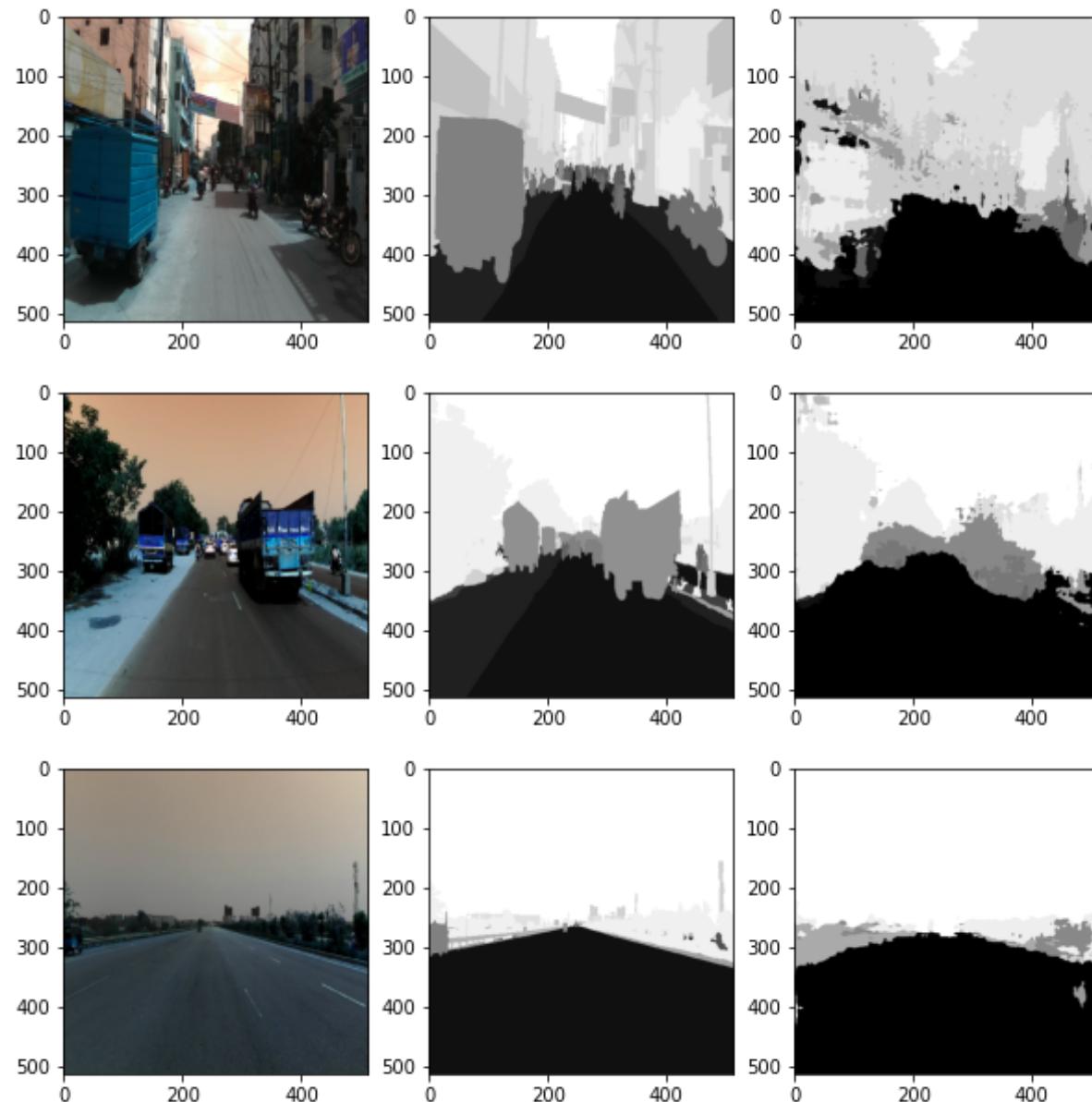
plt.figure(figsize=(10,6))
plt.subplot(131)
plt.imshow(image)
plt.subplot(132)
plt.imshow(image_mask, cmap='gray')
plt.subplot(133)
plt.imshow(pred_mask[0], cmap='gray')
plt.show()

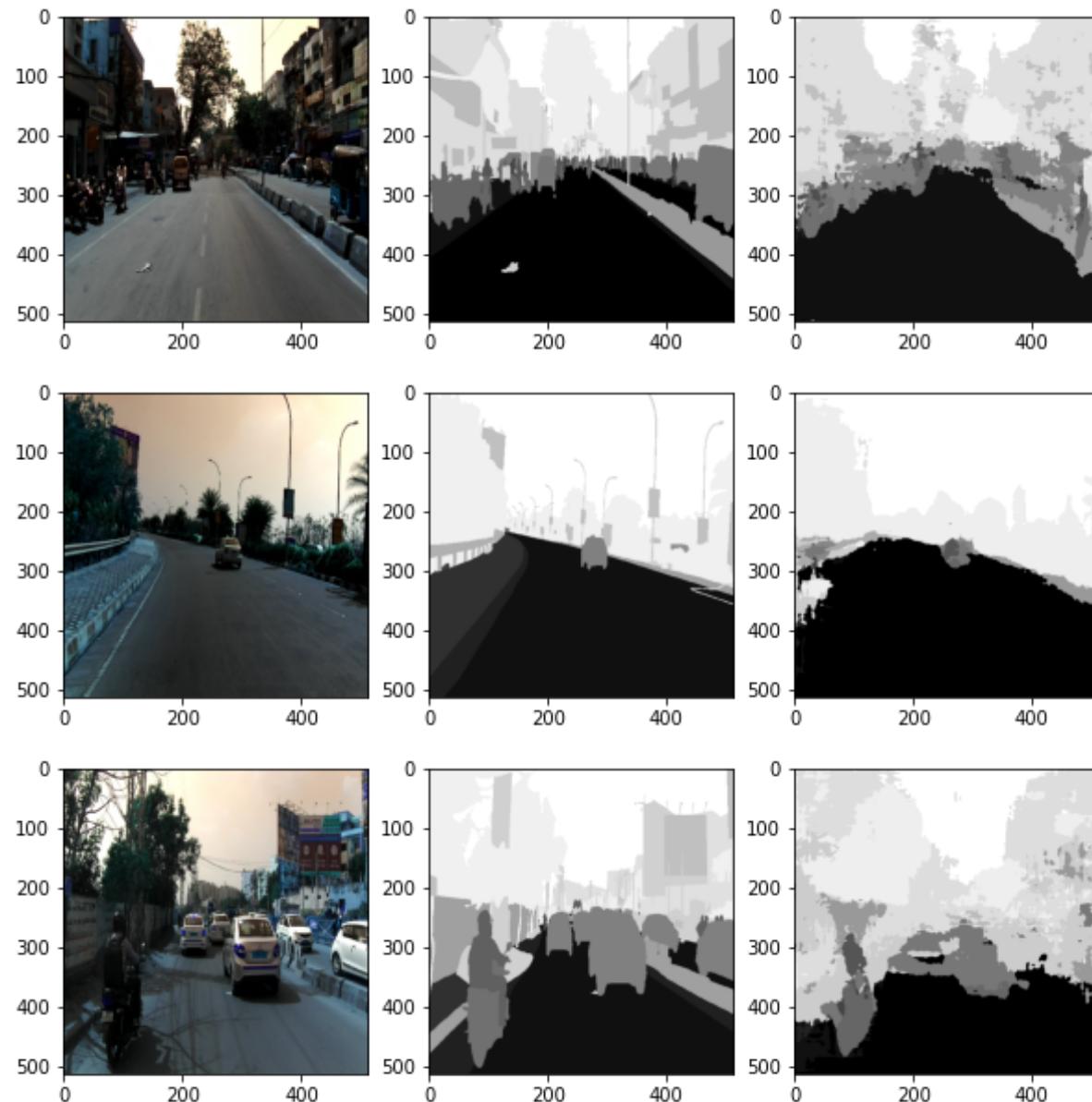
```

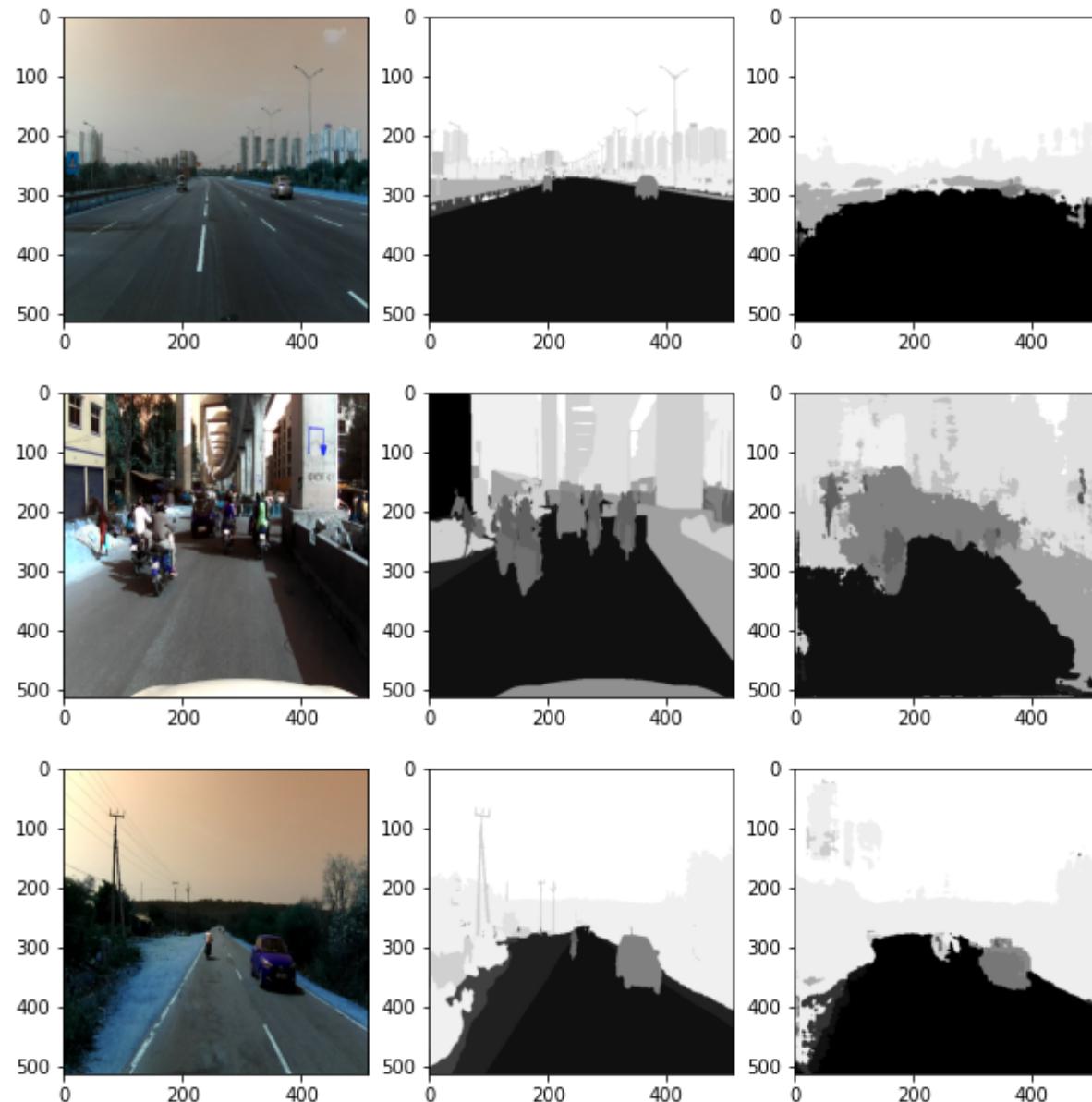


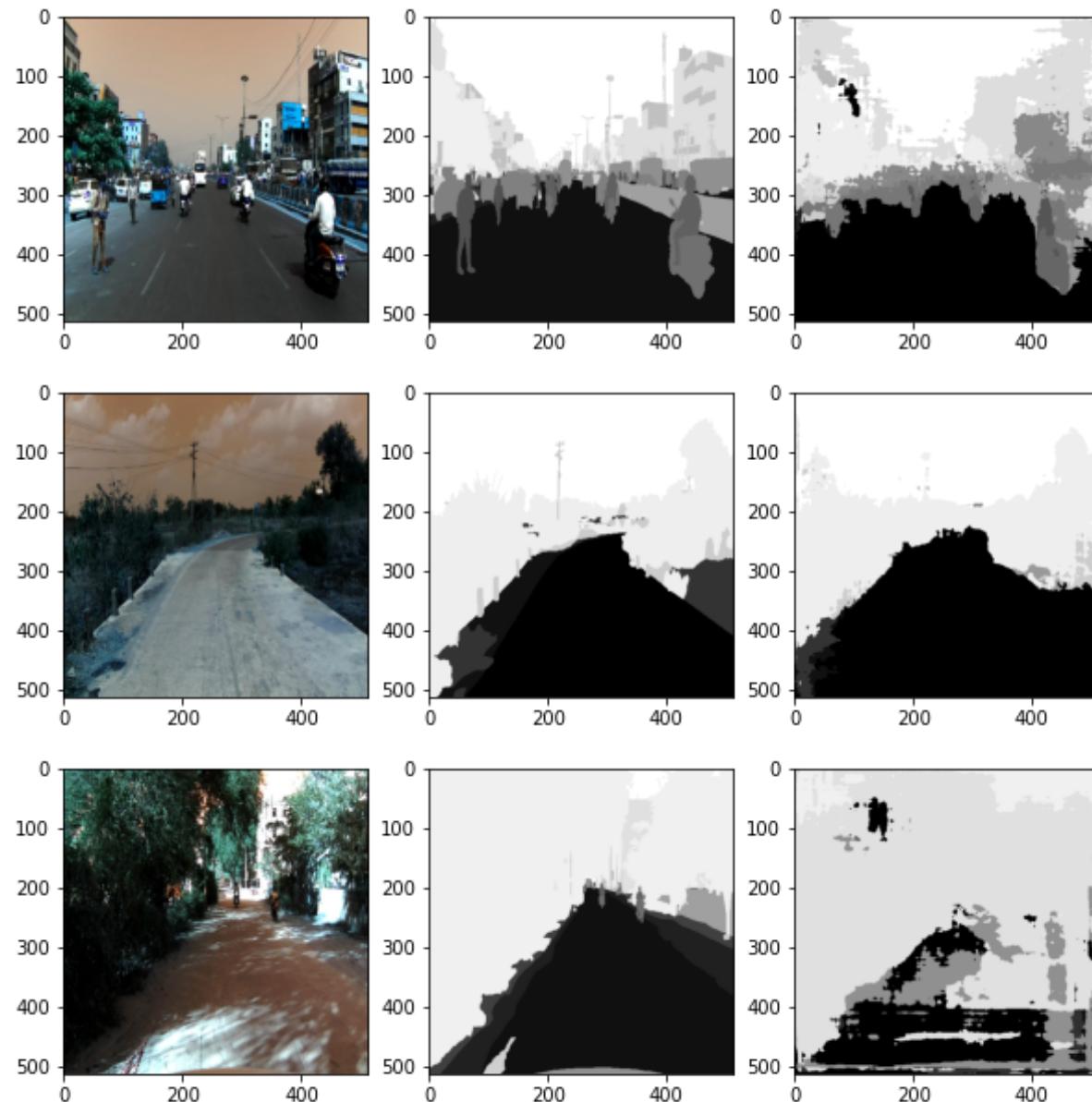












In [ ]: