X

Learn, Share, Build

Each month, over 50 million developers come to Stack Overflow to learn, share their knowledge, and build their careers.

Google Facebook
OR

Join the world's largest developer community.

Error when using classify in caffe

I am using caffe in python to classify. I get code from here. In here, I just use simple code such as

```
plt.rcParams['figure.figsize'] = (10, 10)
plt.rcParams['image.interpolation'] = 'nearest'
plt.rcParams['image.cmap'] = 'gray'
mean_filename='./mean.binaryproto'
proto_data = open(mean_filename, "rb").read()
a = caffe.io.caffe_pb2.BlobProto.FromString(proto_data)
mean = caffe.io.blobproto_to_array(a)[0]
age_net_pretrained='./age_net.caffemodel'
age_net_model_file='./deploy_age.prototxt'
age_net = caffe.Classifier(age_net_model_file, age_net_pretrained,
mean=mean,
```

```
image_dims=(256, 256))
```

However, I got error such as

```
Traceback (most recent call last):
File "cnn_age_gender_demo.py", line 25, in
image_dims=(256, 256))
File "/home/john/Downloads/caffe/python/caffe/classifier.py", line 34, in init
self.transformer.set_mean(in_, mean)
File "/home/john/Downloads/caffe/python/caffe/io.py", line 255, in set_mean
raise ValueError('Mean shape incompatible with input shape.')
ValueError: Mean shape incompatible with input shape.
```

Could you help me to reslove it? Thanks

```
python python-2.7 caffe
```

asked Jun 12 '15 at 17:15



3 Answers

Let go to line 253-254 in caffe/python/caffe/io.py Replace

```
if ms != self.inputs[in_][1:]:
    raise ValueError('Mean shape incompatible with input shape.')

By

if ms != self.inputs[in_][1:]:
    print(self.inputs[in_][1:]:
    print(self.inputs[in_][1:]
    m_min, m_max = mean.min(), mean.max()
    normal_mean = (mean - m_min) / (m_max - m_min)
    mean =

resize_image(normal_mean.transpose((1,2,0)),in_shape[1:]).transpose((2,0,1)) *
(m_max - m_min) + m_min
    #raise ValueError('Mean shape incompatible with input shape.')
```

answered Jun 12 '15 at 17:31



I was having the same problem, based in the imagenet web demo I modified the script using this way to load the mean file in line 95

```
mean = np.load(args.mean_file).mean(1).mean(1)
```

answered Sep 2 '16 at 18:11



I am pretty scared to rebuild the code as caffe installation did not come easy for me. But to fix, the solution to resize mean require in_shape (user8264's response), which is set internally in caffe/classifier.py

Anyway, I debugged and found the value for in_shape = (3, 227, 227) for age_net.caffemodel

So the model used for age and gender prediction would the following change:

This will get rid of "ValueError: Mean shape incompatible with input shape". But I am not sure about the accuracy though. Apparently, for me skipping mean parameter gave better age prediction:)

answered Jul 22 at 12:31

