

ML Testing of Image

November 26, 2019

```
[2]: model = load_model('model.h5')
```

```
WARNING:tensorflow:From /home/rahetul/.local/lib/python3.6/site-  
packages/tensorflow/python/ops/init_ops.py:1251: calling  
VarianceScaling.__init__ (from tensorflow.python.ops.init_ops) with dtype is  
deprecated and will be removed in a future version.  
Instructions for updating:  
Call initializer instance with the dtype argument instead of passing it to the  
constructor
```

```
[3]: img = cv2.imread('2019-11-26-055106.jpg')
```

```
[17]: i3= cv2.imread('IMG_0124-01.jpeg')
```

```
[18]: size = (150,150)  
i3= cv2.resize(i3, size)
```

```
[4]: size = (150,150)  
img = cv2.resize(img, size)
```

```
[5]: img = np.array(img, dtype = 'float32')
```

```
[19]: i3=np.array(i3, dtype = 'float32')
```

```
[20]: i33 = i3.reshape((-1, 150, 150, 3))
```

```
[6]: img1 = img.reshape((-1, 150, 150, 3))
```

```
[ ]: img=img / 255.0
```

```
[7]: model.summary
```

```
[7]: <bound method Network.summary of  
<tensorflow.python.keras.engine.sequential.Sequential object at 0x7f6f82725e80>>
```

```
[9]: predictions = model.predict(img1)
```

```
[21]: predictions3 = model.predict(i33)
```

```
[ ]: predictions
```

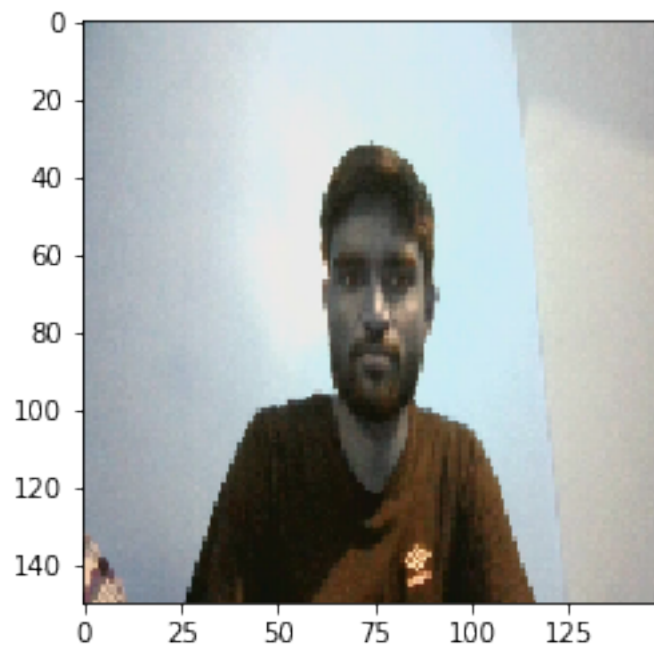
```
[10]: from keras.preprocessing import image  
import matplotlib.pyplot as plt
```

Using TensorFlow backend.

```
[10]: <matplotlib.image.AxesImage at 0x7f6f6d1a85c0>
```

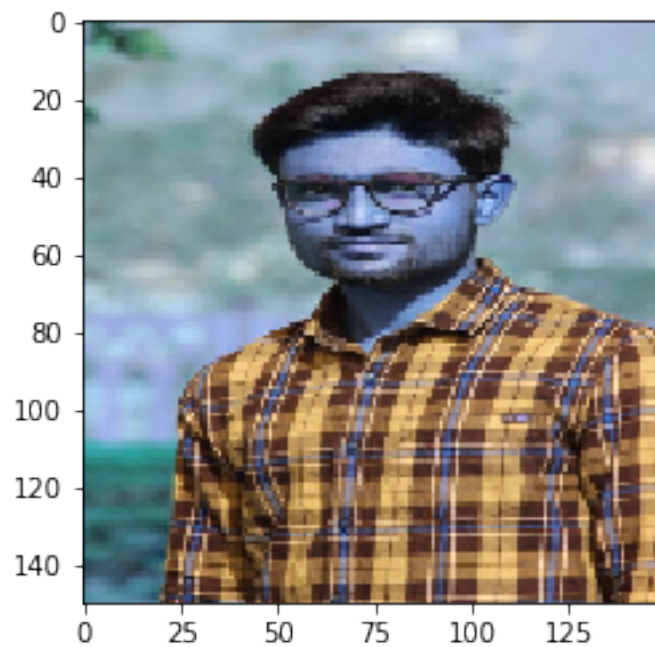
```
[11]: plt.imshow(img/256.)
```

```
[11]: <matplotlib.image.AxesImage at 0x7f6f6d13aef0>
```



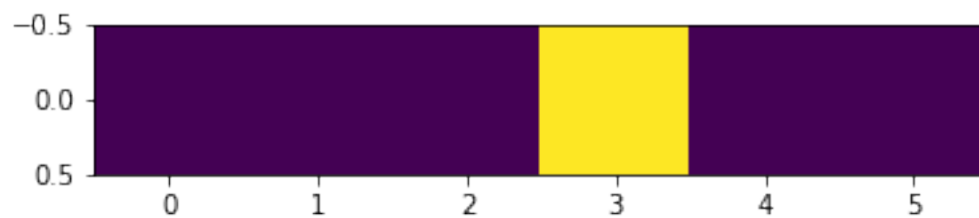
```
[22]: plt.imshow(i3/256.)
```

```
[22]: <matplotlib.image.AxesImage at 0x7f6f6cc437b8>
```



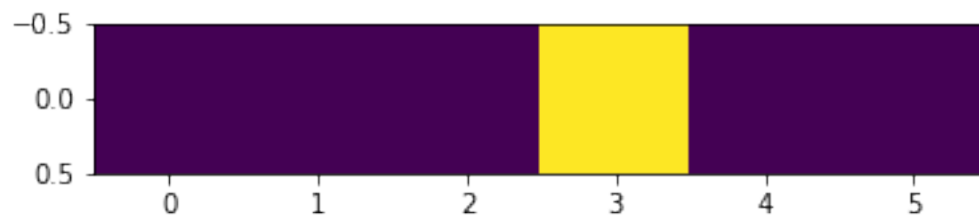
```
[23]: plt.imshow(predictions3/256.)
```

```
[23]: <matplotlib.image.AxesImage at 0x7f6f6cbaa390>
```



```
[12]: plt.imshow(predictions/256.)
```

```
[12]: <matplotlib.image.AxesImage at 0x7f6f6cc67cc0>
```



```
[13]: img_class=model.predict_classes(img1)
```

```
[14]: prediction = img_class[0]
```

```
[15]: classname = img_class[0]
```

```
[16]: print("Class: ",classname)
```

Class: 3

```
[25]: img_class=model.predict_classes(i33)
prediction = img_class[0]
classname = img_class[0]
print("Class: ",classname)
```

Class: 3

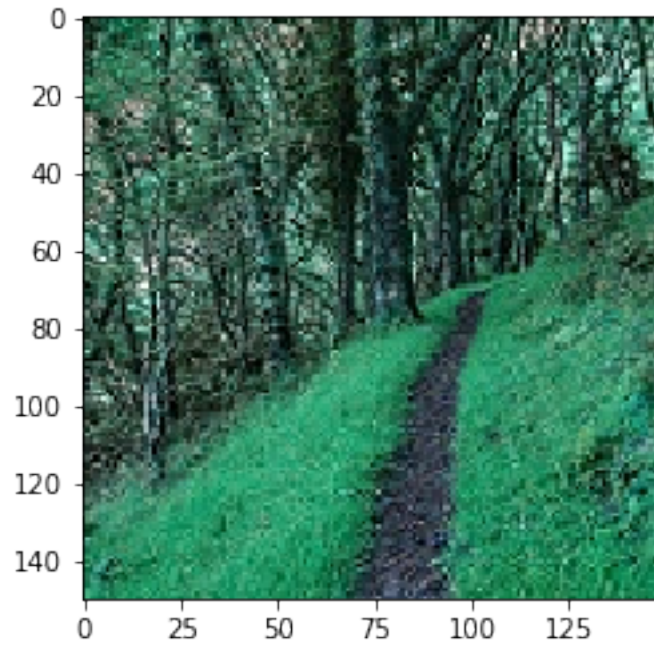
```
[26]: i4= cv2.imread('466.jpg')
size = (150,150)
i4= cv2.resize(i4, size)
i4=np.array(i4, dtype = 'float32')
```

```
[27]: i44 = i4.reshape((-1, 150, 150, 3))
```

```
[28]: predictions4 = model.predict(i44)
```

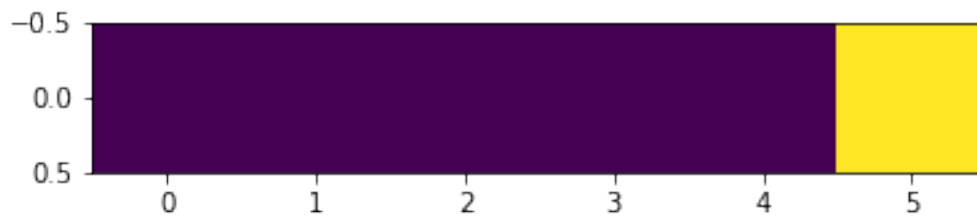
```
[29]: plt.imshow(i4/256.)
```

```
[29]: <matplotlib.image.AxesImage at 0x7f6f6cb16390>
```



```
[30]: plt.imshow(predictions4/256.)
```

```
[30]: <matplotlib.image.AxesImage at 0x7f6f6ca6df28>
```



```
[31]: img_class=model.predict_classes(i44)
prediction = img_class[0]
classname = img_class[0]
print("Class: ",classname)
```

```
Class: 5
```

```
[ ]:
```