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Traffic Light Classifier

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CODE REVIEW

HISTORY

Meets Specifications

I have simply nothing to add. You have done a great job. Please keep up at that level!!!

Notebook Questions



In the project notebook, all questions are answered. (There are two questions total.)

✓ You have explained how your feature(s) help you distinguish between the 3 classes of traffic light images.

✓ You have answered correctly question 2 and noted at least two reasons for misclassifications to your algorithm

✓ Your notebook runs without errors

Pre-processing



All input images (before they are classified) should be processed so that they are the same size.



All labels should be a one-hot encoded vector of length 3. Ex. 'yellow' becomes: [0, 1, 0].

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```
✓ Your implementation is very good!
```

X You did not consider the case where the label is not expected!

```
def one_hot_encode(label):
""" this is easier to extend. just add values to the color_map """
color_map = ["red", "yellow", "green"]
one_hot = [0] * len(color_map)
  one hot[color map.index(label)] = 1
   return one_hot
 except:
   raise TypeError('Please input red, yellow, or green. Not ', label)
```

Create a brightness feature



Using HSV colorspace, extract a feature from a traffic light image that represents the level(s) of brightness in an image. This feature can help classify any traffic light image. A feature can be a list, array, or a single value.

Amazing work 👋 👸 one of the best I have reviewed. Not only for the results but for the clarity of the code too.!

Classification Model



Using any created features, write a classification function that takes in a standardized RGB image and outputs whether a traffic light is red, yellow, or green as a one-hot encoded label.



Great Work. You have created the required function.

Model Evaluation



The model must have greater than 90% accuracy on the given test set.

Just perfect 100%



In the given test set, red traffic lights can never be mistakenly labeled as green.

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RETURN TO PATH



Student FAQ