

Quick Recap:
What have we done till now?

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1. Understood the problem statement



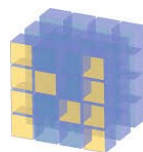
Emergency Vehicle



Non - Emergency Vehicle

Quick Recap - what have we done till now?

1. Understood the problem statement
2. Read image data and explored it



NumPy

Pandas

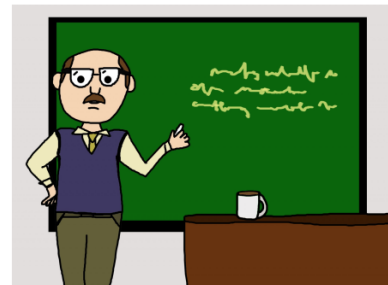


scikit-image
image processing in python

matplotlib

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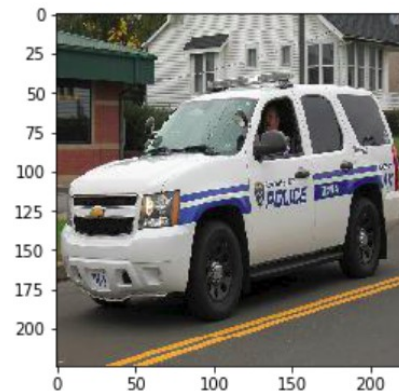


VGG-16
PRETRAINED MODEL

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1. Understood the problem statement
2. Read image data and explored it
3. Looked at the different approaches to solve it
4. Used a pre-trained model to solve the problem
5. Got the Prediction

[99] % sure that it is emergency
Whereas actual class is 1



What is coming up!

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	(None, 224, 224, 3)	0
block1_conv1 (Conv2D)	(None, 224, 224, 64)	1792
block1_conv2 (Conv2D)	(None, 224, 224, 64)	36928
block1_pool (MaxPooling2D)	(None, 112, 112, 64)	0
block2_conv1 (Conv2D)	(None, 112, 112, 128)	73856
block2_conv2 (Conv2D)	(None, 112, 112, 128)	147584
block2_pool (MaxPooling2D)	(None, 56, 56, 128)	0
block3_conv1 (Conv2D)	(None, 56, 56, 256)	295168
block3_conv2 (Conv2D)	(None, 56, 56, 256)	590080
block3_conv3 (Conv2D)	(None, 56, 56, 256)	590080
block3_pool (MaxPooling2D)	(None, 28, 28, 256)	0
block4_conv1 (Conv2D)	(None, 28, 28, 512)	1180160
block4_conv2 (Conv2D)	(None, 28, 28, 512)	2359808
block4_conv3 (Conv2D)	(None, 28, 28, 512)	2359808
block4_pool (MaxPooling2D)	(None, 14, 14, 512)	0
block5_conv1 (Conv2D)	(None, 14, 14, 512)	2359808
block5_conv2 (Conv2D)	(None, 14, 14, 512)	2359808
block5_conv3 (Conv2D)	(None, 14, 14, 512)	2359808
block5_pool (MaxPooling2D)	(None, 7, 7, 512)	0
global_average_pooling2d_1 ((None, 512)		0
Total params: 14,714,688		
Trainable params: 14,714,688		
Non-trainable params: 0		

Thank you!