- 1 "C:\Program Files\Python37\python.exe" "C:/Users/
 JDEAGAN/OneDrive Environmental Protection Agency (
 EPA)/Profile/Desktop/Projects/AI/ArtificialIntel/
 BuildingIdentifier/ImageAnnotation/KerasTunerDeagan.
 py"
- 2 2021-10-13 11:14:00.133438: W tensorflow/
 stream_executor/platform/default/dso_loader.cc:64]
 Could not load dynamic library 'cudart64_110.dll';
 dlerror: cudart64_110.dll not found
- 3 2021-10-13 11:14:00.134264: I tensorflow/ stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
- 5 2.6.0
- 6 Found 7811 files belonging to 6 classes.
- 7 Using 6249 files for training.
- 8 2021-10-13 11:14:15.533033: W tensorflow/ stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror : nvcuda.dll not found
- 9 2021-10-13 11:14:15.533500: W tensorflow/ stream_executor/cuda/cuda_driver.cc:269] failed call to cuInit: UNKNOWN ERROR (303)
- 10 2021-10-13 11:14:15.548043: I tensorflow/ stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: D26265VWTB0E
- 11 2021-10-13 11:14:15.548626: I tensorflow/ stream_executor/cuda/cuda_diagnostics.cc:176] hostname: D26265VWTB0E
- 12 2021-10-13 11:14:15.549159: I tensorflow/core/
 platform/cpu_feature_guard.cc:142] This TensorFlow
 binary is optimized with oneAPI Deep Neural Network
 Library (oneDNN) to use the following CPU
 instructions in performance-critical operations: AVX
 AVX2

14 15 16 17	To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags. Found 7811 files belonging to 6 classes. Using 1562 files for validation. Found 864 files belonging to 6 classes. Model: "sequential"	
19	Layer (type) Param #	Output Shape
20	=======================================	=======================================
21	rescaling (Rescaling)) 0	(None, 256, 256, 3
22		
23	random_flip (RandomFlip)) 0	(None, 256, 256, 3
24		
	random_rotation (RandomRotat) 0	
26		
	conv2d (Conv2D)) 896	(None, 254, 254, 32
28		
29	<pre>max_pooling2d (MaxPooling2D)) 0</pre>	(None, 127, 127, 32
30		
31	conv2d_1 (Conv2D)) 18496	(None, 125, 125, 64
32		
33	max_pooling2d_1 (MaxPooling2	(None, 62, 62, 64
34) 0	
35	conv2d_2 (Conv2D)	(None, 60, 60, 128

```
35 )
      73856
36 __
37 max_pooling2d_2 (MaxPooling2 (None, 30, 30, 128
38 _____
39 flatten (Flatten)
                   (None, 115200
40 ______
41 dense (Dense)
                         (None, 256
            29491456
42 _____
43 dense_1 (Dense)
                         (None, 256
          65792
44 _____
45 dense_2 (Dense)
                         (None, 6
                1542
47 Total params: 29,652,038
48 Trainable params: 29,652,038
49 Non-trainable params: 0
50 _____
51 Epoch 1/20
52 C:\Users\JDEAGAN\AppData\Roaming\Python\Python37\site
  -packages\keras\backend.py:4907: UserWarning: "`
  sparse_categorical_crossentropy` received `
  from_logits=True`, but the `output` argument was
  produced by a sigmoid or softmax activation and thus
  does not represent logits. Was this intended?"
    '"`sparse_categorical_crossentropy` received `
53
  from_logits=True`, but '
54 2021-10-13 11:14:18.146799: I tensorflow/compiler/
  mlir/mlir_graph_optimization_pass.cc:185] None of the
   MLIR Optimization Passes are enabled (registered 2)
   2/196 [.....] - ETA: 7:26
55
```

```
- loss: 4.7151 - accuracy: 0.4688 2021-10-13 11:14:
  24.496611: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
    4/196 [.....] - ETA: 7:59
56
   - loss: 4.0001 - accuracy: 0.39842021-10-13 11:14:29
  .898624: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
57
    5/196 [.....] - ETA: 8:18
   - loss: 3.4928 - accuracy: 0.41252021-10-13 11:14:32
  .872134: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
   13/196 [>.....] - ETA: 8:34
58
   - loss: 2.2715 - accuracy: 0.42072021-10-13 11:14:56
  .226325: W tensorflow/core/lib/png/png io.cc:881 PNG
  warning: iCCP: known incorrect sRGB profile
59
  46/196 [=====>.....] - ETA: 6:22
   - loss: 1.6428 - accuracy: 0.42192021-10-13 11:16:17
  .153877: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
60 47/196 [=====>.....] - ETA: 6:19
   - loss: 1.6413 - accuracy: 0.42152021-10-13 11:16:19
  .228722: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
61 56/196 [======>.....] - ETA: 5:47
   - loss: 1.5888 - accuracy: 0.43082021-10-13 11:16:38
  .662726: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
62 59/196 [=======>....] - ETA: 5:36
   - loss: 1.5781 - accuracy: 0.42962021-10-13 11:16:44
   .891987: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
63
  60/196 [=======>.....] - ETA: 5:33
   - loss: 1.5760 - accuracy: 0.43072021-10-13 11:16:46
  .995581: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
  65/196 [=======>....] - ETA: 5:17
64
   - loss: 1.5582 - accuracy: 0.42982021-10-13 11:16:57
   .361587: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
  73/196 [========>.....] - ETA: 4:58
65
   - loss: 1.5375 - accuracy: 0.42982021-10-13 11:17:16
```

```
65 .943843: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
66
   76/196 [=======>.....] - ETA: 4:50
   - loss: 1.5282 - accuracy: 0.43092021-10-13 11:17:
   23.794348: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
   82/196 [========>.....] - ETA: 4:34
   - loss: 1.5151 - accuracy: 0.43062021-10-13 11:17:
   37.001908: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
   87/196 [========>.....] - ETA: 4:20
   - loss: 1.5067 - accuracy: 0.42822021-10-13 11:17:
   47.764231: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  92/196 [=========>.....] - ETA: 4:07
   - loss: 1.4966 - accuracy: 0.43002021-10-13 11:17:
  58.986716: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  96/196 [=========>.....] - ETA: 3:57
70
   - loss: 1.4915 - accuracy: 0.43262021-10-13 11:18:
   07.920613: W tensorflow/core/lib/png/png io.cc:881
  PNG warning: iCCP: known incorrect sRGB profile
71 107/196 [==========>.....] - ETA: 3:31
   - loss: 1.4742 - accuracy: 0.44132021-10-13 11:18:
  34.329732: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
72 116/196 [==========>....] - ETA: 3:10
   - loss: 1.4675 - accuracy: 0.44132021-10-13 11:18:
  55.843336: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
73 118/196 [============>.....] - ETA: 3:05
   - loss: 1.4657 - accuracy: 0.44042021-10-13 11:19:
   00.820584: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
74 120/196 [===========>....] - ETA: 3:00
   - loss: 1.4624 - accuracy: 0.44192021-10-13 11:19:
  05.814324: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
75 2021-10-13 11:19:06.394656: W tensorflow/core/lib/
  png/png_io.cc:88] PNG warning: iCCP: known incorrect
   sRGB profile
```

```
76 125/196 [===========>....] - ETA: 2:48
   - loss: 1.4565 - accuracy: 0.44402021-10-13 11:19:
  17.000714: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
77 128/196 [============>.....] - ETA: 2:41
   - loss: 1.4536 - accuracy: 0.44512021-10-13 11:19:
  23.738283: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
78 129/196 [===========>....] - ETA: 2:38
   - loss: 1.4523 - accuracy: 0.44532021-10-13 11:19:
  26.073159: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4503 - accuracy: 0.44652021-10-13 11:19:
  32.555361: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
80 134/196 [============>....] - ETA: 2:26
   - loss: 1.4500 - accuracy: 0.44592021-10-13 11:19:
  36.911107: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
81 2021-10-13 11:19:36.911693: W tensorflow/core/lib/
  pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
   sRGB profile
- loss: 1.4345 - accuracy: 0.44982021-10-13 11:20:
  18.864233: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4318 - accuracy: 0.44632021-10-13 11:20:
  43.208211: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4267 - accuracy: 0.44832021-10-13 11:20:
  55.981871: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4246 - accuracy: 0.44932021-10-13 11:21:
  00.283982: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
86 196/196 [============ ] - ETA: Os
   - loss: 1.4127 - accuracy: 0.44862021-10-13 11:21:
```

```
86 51.650289: W tensorflow/core/lib/png/png_io.cc:88]
   PNG warning: iCCP: known incorrect sRGB profile
87 2021-10-13 11:21:51.851653: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
88 2021-10-13 11:21:53.243080: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
89 2021-10-13 11:22:07.939780: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
90 2021-10-13 11:22:08.484050: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
91 2021-10-13 11:22:16.941562: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
step - loss: 1.4127 - accuracy: 0.4486 - val_loss: 1
   .2949 - val_accuracy: 0.4795
93 Epoch 2/20
step - loss: 1.3284 - accuracy: 0.4530 - val_loss: 1
   .3579 - val_accuracy: 0.3899
95 Epoch 3/20
step - loss: 1.3073 - accuracy: 0.4655 - val_loss: 1
   .2964 - val_accuracy: 0.4827
97 Epoch 4/20
step - loss: 1.2887 - accuracy: 0.4737 - val_loss: 1
   .2655 - val_accuracy: 0.5058
99 Epoch 5/20
step - loss: 1.2832 - accuracy: 0.4799 - val_loss: 1
   .2645 - val_accuracy: 0.5070
101 Epoch 6/20
step - loss: 1.2718 - accuracy: 0.4818 - val_loss: 1
   .2665 - val_accuracy: 0.4795
103 Epoch 7/20
```

```
step - loss: 1.2711 - accuracy: 0.4817 - val_loss: 1
  .2552 - val_accuracy: 0.5070
105 Epoch 8/20
step - loss: 1.2614 - accuracy: 0.4858 - val_loss: 1
  .2558 - val_accuracy: 0.5032
107 Epoch 9/20
step - loss: 1.2605 - accuracy: 0.4879 - val_loss: 1
  .2508 - val_accuracy: 0.5090
109 Epoch 10/20
step - loss: 1.2604 - accuracy: 0.4879 - val_loss: 1
  .2386 - val_accuracy: 0.5058
111 Epoch 11/20
step - loss: 1.2526 - accuracy: 0.4895 - val_loss: 1
  .2292 - val_accuracy: 0.5102
113 Epoch 12/20
step - loss: 1.2488 - accuracy: 0.4902 - val_loss: 1
  .2384 - val accuracy: 0.5109
115 Epoch 13/20
step - loss: 1.2453 - accuracy: 0.4862 - val_loss: 1
  .2282 - val_accuracy: 0.5077
117 Epoch 14/20
step - loss: 1.2443 - accuracy: 0.4903 - val_loss: 1
  .2182 - val_accuracy: 0.5237
119 Epoch 15/20
step - loss: 1.2376 - accuracy: 0.4930 - val_loss: 1
  .2268 - val_accuracy: 0.5026
121 Epoch 16/20
step - loss: 1.2353 - accuracy: 0.4959 - val_loss: 1
  .2136 - val_accuracy: 0.5141
123 Epoch 17/20
```

```
124 step - loss: 1.2307 - accuracy: 0.4970 - val_loss: 1
   .2183 - val_accuracy: 0.5115
125 Epoch 18/20
step - loss: 1.2248 - accuracy: 0.5012 - val_loss: 1
   .2014 - val_accuracy: 0.5147
127 Epoch 19/20
step - loss: 1.2148 - accuracy: 0.5047 - val_loss: 1
   .2179 - val_accuracy: 0.5147
129 Epoch 20/20
step - loss: 1.2165 - accuracy: 0.5076 - val_loss: 1
   .2122 - val_accuracy: 0.5230
131 2021-10-13 13:42:36.965709: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
132 1/27 [>.....] - ETA: 38s -
   loss: 1.0179 - accuracy: 0.62502021-10-13 13:42:37.
   931177: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
   8/27 [======>....] - ETA: 11s -
   loss: 1.2234 - accuracy: 0.54302021-10-13 13:42:42.
   242247: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
134 2021-10-13 13:42:42.296519: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
135 2021-10-13 13:42:42.341891: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: profile 'ICC
   Profile': 'desc': ICC profile tag start not a
   multiple of 4
136 2021-10-13 13:42:42.342437: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: profile 'ICC
   Profile': 'wtpt': ICC profile tag start not a
   multiple of 4
137 2021-10-13 13:42:42.343263: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: profile 'ICC
   Profile': 'bkpt': ICC profile tag start not a
   multiple of 4
138 2021-10-13 13:42:42.343647: W tensorflow/core/lib/
```

- 138 png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'rXYZ': ICC profile tag start not a multiple of 4
- 139 2021-10-13 13:42:42.344021: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'gXYZ': ICC profile tag start not a multiple of 4
- 140 2021-10-13 13:42:42.344390: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'bXYZ': ICC profile tag start not a multiple of 4
- 141 2021-10-13 13:42:42.344769: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'dmnd': ICC profile tag start not a multiple of 4
- 142 2021-10-13 13:42:42.345132: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'dmdd': ICC profile tag start not a multiple of 4
- 143 2021-10-13 13:42:42.345531: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'vued': ICC profile tag start not a multiple of 4
- 144 2021-10-13 13:42:42.345905: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'view': ICC profile tag start not a multiple of 4
- 145 2021-10-13 13:42:42.346269: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'lumi': ICC profile tag start not a multiple of 4
- 146 2021-10-13 13:42:42.346644: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'meas': ICC profile tag start not a multiple of 4
- 147 2021-10-13 13:42:42.347019: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'tech': ICC profile tag start not a multiple of 4
- 148 2021-10-13 13:42:42.347385: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: profile 'ICC

```
148 Profile': 'rTRC': ICC profile tag start not a
   multiple of 4
149 2021-10-13 13:42:42.347746: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: profile 'ICC
   Profile': 'qTRC': ICC profile tag start not a
   multiple of 4
150 2021-10-13 13:42:42.348115: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: profile 'ICC
   Profile': 'bTRC': ICC profile tag start not a
   multiple of 4
151 15/27 [=========>.....] - ETA: 7s -
   loss: 1.2611 - accuracy: 0.53122021-10-13 13:42:46.
   949713: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
step - loss: 1.2569 - accuracy: 0.5312
153 Accuracy: 0.53125
154 Loss: 1.2569352388381958
155 end
156
157 Process finished with exit code 0
158
```