- 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 2021-10-19 08:44:00.278121: 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 2021-10-19 08:44:00.278570: 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 2021-10-19 08:44:09.089500: W tensorflow/ stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror : nvcuda.dll not found
- 9 2021-10-19 08:44:09.090152: W tensorflow/ stream_executor/cuda/cuda_driver.cc:269] failed call to cuInit: UNKNOWN ERROR (303)
- 10 2021-10-19 08:44:09.109210: I tensorflow/ stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: D26265VWTB0E
- 11 2021-10-19 08:44:09.109775: I tensorflow/ stream_executor/cuda/cuda_diagnostics.cc:176] hostname: D26265VWTB0E
- 12 2021-10-19 08:44:09.110312: 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

```
73856
35 )
36 __
37 max_pooling2d_2 (MaxPooling2 (None, 30, 30, 128
38 _____
39 flatten (Flatten)
                   (None, 115200
40 _____
41 dense (Dense)
                          (None, 128
            14745728
42 _____
43 dense_1 (Dense)
                          (None, 6
                 774
=========
45 Total params: 14,839,750
46 Trainable params: 14,839,750
47 Non-trainable params: 0
48 _____
49 Epoch 1/30
50 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 `
51
  from_logits=True`, but '
52 2021-10-19 08:44:11.371521: I tensorflow/compiler/
  mlir/mlir_graph_optimization_pass.cc:185] None of the
   MLIR Optimization Passes are enabled (registered 2)
    1/196 [.....] - ETA: 12:25
53
   - loss: 1.7877 - accuracy: 0.12502021-10-19 08:44:14
  .651599: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
    4/196 [.....] - ETA: 8:03
54
```

```
- loss: 3.8438 - accuracy: 0.31252021-10-19 08:44:22
  .226304: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
55
    5/196 [...... 7:58
   - loss: 3.3588 - accuracy: 0.29372021-10-19 08:44:24
  .704798: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
56
   13/196 [>.....] - ETA: 7:30
   - loss: 2.1606 - accuracy: 0.36062021-10-19 08:44:44
  .211971: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
  46/196 [=====>....] - ETA: 5:36
57
   - loss: 1.6058 - accuracy: 0.41922021-10-19 08:45:55
  .586028: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
  47/196 [=====>.....] - ETA: 5:33
58
   - loss: 1.6056 - accuracy: 0.41892021-10-19 08:45:57
  .564473: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
59
  56/196 [======>.....] - ETA: 5:11
   - loss: 1.5574 - accuracy: 0.42862021-10-19 08:46:16
  .916793: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
60 59/196 [=======>.....] - ETA: 5:03
   - loss: 1.5451 - accuracy: 0.42742021-10-19 08:46:23
  .118988: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
61 60/196 [=======>.....] - ETA: 5:01
   - loss: 1.5438 - accuracy: 0.42862021-10-19 08:46:25
  .252747: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
62
  65/196 [=======>.....] - ETA: 4:48
   - loss: 1.5287 - accuracy: 0.42742021-10-19 08:46:35
  .845721: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
   73/196 [========>....] - ETA: 4:30
63
   - loss: 1.5092 - accuracy: 0.42722021-10-19 08:46:52
   .845086: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
  76/196 [=======>.....] - ETA: 4:24
64
   - loss: 1.5019 - accuracy: 0.42892021-10-19 08:46:59
```

```
64 .871083: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
   82/196 [========>.....] - ETA: 4:10
   - loss: 1.4912 - accuracy: 0.42872021-10-19 08:47:
  12.464810: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
   87/196 [========>.....] - ETA: 3:58
   - loss: 1.4831 - accuracy: 0.42642021-10-19 08:47:
  22.762165: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
67 92/196 [=========>....] - ETA: 3:47
   - loss: 1.4771 - accuracy: 0.42432021-10-19 08:47:
  33.857706: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
68 96/196 [=========>....] - ETA: 3:40
   - loss: 1.4720 - accuracy: 0.42712021-10-19 08:47:
  44.545353: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
69 108/196 [=========>.....] - ETA: 3:16
   - loss: 1.4591 - accuracy: 0.43612021-10-19 08:48:
  13.170102: W tensorflow/core/lib/png/png io.cc:881
  PNG warning: iCCP: known incorrect sRGB profile
70 117/196 [===========>.....] - ETA: 2:55
   - loss: 1.4523 - accuracy: 0.43702021-10-19 08:48:
  31.833175: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
71 119/196 [===========>....] - ETA: 2:50
   - loss: 1.4521 - accuracy: 0.43572021-10-19 08:48:
  35.977176: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
72 121/196 [==========>....] - ETA: 2:45
   - loss: 1.4487 - accuracy: 0.43542021-10-19 08:48:
  40.274896: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
73 2021-10-19 08:48:40.840705: W tensorflow/core/lib/
  png/png_io.cc:88] PNG warning: iCCP: known incorrect
   sRGB profile
74 126/196 [===========>....] - ETA: 2:34
   - loss: 1.4427 - accuracy: 0.43802021-10-19 08:48:
  50.646176: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
```

```
75 129/196 [===========>....] - ETA: 2:27
   - loss: 1.4412 - accuracy: 0.43922021-10-19 08:48:
  56.749207: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
76 130/196 [============>....] - ETA: 2:25
   - loss: 1.4437 - accuracy: 0.43822021-10-19 08:48:
  59.377739: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
77 133/196 [============>....] - ETA: 2:18
   - loss: 1.4397 - accuracy: 0.43982021-10-19 08:49:
  05.917708: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
78 135/196 [=============>....] - ETA: 2:14
   - loss: 1.4378 - accuracy: 0.44032021-10-19 08:49:
  09.898488: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
79 2021-10-19 08:49:09.902949: W tensorflow/core/lib/
  pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
   sRGB profile
- loss: 1.4246 - accuracy: 0.44442021-10-19 08:49:
  49.586052: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4225 - accuracy: 0.43982021-10-19 08:50:
  13.289299: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4162 - accuracy: 0.44282021-10-19 08:50:
  26.958365: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4155 - accuracy: 0.44292021-10-19 08:50:
  31.766755: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
84 196/196 [============ ] - ETA: Os
   - loss: 1.4072 - accuracy: 0.44222021-10-19 08:51:
  19.541062: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
85 2021-10-19 08:51:19.732028: W tensorflow/core/lib/
  png/png_io.cc:88] PNG warning: iCCP: known incorrect
```

```
85
    sRGB profile
86 2021-10-19 08:51:21.047983: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
87 2021-10-19 08:51:34.495232: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
88 2021-10-19 08:51:35.073951: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
89 2021-10-19 08:51:42.159204: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
step - loss: 1.4072 - accuracy: 0.4422 - val_loss: 1
   .2969 - val_accuracy: 0.4795
91 Epoch 2/30
step - loss: 1.3447 - accuracy: 0.4546 - val_loss: 1
   .2890 - val_accuracy: 0.4802
93 Epoch 3/30
step - loss: 1.3159 - accuracy: 0.4566 - val_loss: 1
   .3260 - val_accuracy: 0.4334
95 Epoch 4/30
96 196/196 [============== ] - 423s 2s/
   step - loss: 1.3022 - accuracy: 0.4718 - val_loss: 1
   .2637 - val_accuracy: 0.5026
97 Epoch 5/30
98 196/196 [============= ] - 431s 2s/
   step - loss: 1.2936 - accuracy: 0.4727 - val_loss: 1
   .2503 - val_accuracy: 0.5115
99 Epoch 6/30
step - loss: 1.2853 - accuracy: 0.4742 - val_loss: 1
   .2605 - val_accuracy: 0.4994
101 Epoch 7/30
step - loss: 1.2766 - accuracy: 0.4817 - val_loss: 1
   .2343 - val_accuracy: 0.5154
103 Epoch 8/30
```

```
step - loss: 1.2719 - accuracy: 0.4814 - val_loss: 1
  .2667 - val_accuracy: 0.5006
105 Epoch 9/30
step - loss: 1.2706 - accuracy: 0.4796 - val_loss: 1
  .2595 - val_accuracy: 0.5032
107 Epoch 10/30
step - loss: 1.2645 - accuracy: 0.4838 - val_loss: 1
  .2489 - val_accuracy: 0.4942
109 Epoch 11/30
step - loss: 1.2589 - accuracy: 0.4850 - val_loss: 1
  .2432 - val_accuracy: 0.5038
111 Epoch 12/30
step - loss: 1.2524 - accuracy: 0.4838 - val_loss: 1
  .2481 - val_accuracy: 0.5019
113 Epoch 13/30
step - loss: 1.2550 - accuracy: 0.4890 - val_loss: 1
  .2333 - val accuracy: 0.5173
115 Epoch 14/30
step - loss: 1.2483 - accuracy: 0.4897 - val_loss: 1
  .2213 - val_accuracy: 0.5179
117 Epoch 15/30
step - loss: 1.2427 - accuracy: 0.4908 - val_loss: 1
  .2380 - val_accuracy: 0.4987
119 Epoch 16/30
step - loss: 1.2393 - accuracy: 0.4954 - val_loss: 1
  .2219 - val_accuracy: 0.5128
121 Epoch 17/30
step - loss: 1.2320 - accuracy: 0.4954 - val_loss: 1
  .2177 - val_accuracy: 0.5166
123 Epoch 18/30
```

```
124 step - loss: 1.2195 - accuracy: 0.5039 - val_loss: 1
  .2118 - val_accuracy: 0.5198
125 Epoch 19/30
step - loss: 1.2182 - accuracy: 0.4975 - val_loss: 1
  .2161 - val_accuracy: 0.5205
127 Epoch 20/30
step - loss: 1.2149 - accuracy: 0.5060 - val_loss: 1
  .2271 - val_accuracy: 0.5070
129 Epoch 21/30
step - loss: 1.2063 - accuracy: 0.5076 - val_loss: 1
  .2267 - val_accuracy: 0.5128
131 Epoch 22/30
step - loss: 1.2015 - accuracy: 0.5042 - val_loss: 1
  .2235 - val_accuracy: 0.5160
133 Epoch 23/30
step - loss: 1.1969 - accuracy: 0.5129 - val_loss: 1
  .2085 - val_accuracy: 0.5218
135 Epoch 24/30
step - loss: 1.1914 - accuracy: 0.5198 - val_loss: 1
  .2123 - val_accuracy: 0.5096
137 Epoch 25/30
step - loss: 1.1864 - accuracy: 0.5198 - val_loss: 1
  .2074 - val_accuracy: 0.5147
139 Epoch 26/30
step - loss: 1.1750 - accuracy: 0.5254 - val_loss: 1
  .2036 - val_accuracy: 0.5192
141 Epoch 27/30
step - loss: 1.1663 - accuracy: 0.5318 - val_loss: 1
  .2039 - val_accuracy: 0.5269
143 Epoch 28/30
step - loss: 1.1602 - accuracy: 0.5292 - val_loss: 1
```

144 .2074 - val_accuracy: 0.5128 145 Epoch 29/30 146 196/196 [=============] - 458s 2s/ step - loss: 1.1532 - accuracy: 0.5399 - val_loss: 1 .2015 - val_accuracy: 0.5237 147 Epoch 30/30 148 196/196 [=============] - 454s 2s/ step - loss: 1.1474 - accuracy: 0.5314 - val_loss: 1 .2153 - val_accuracy: 0.5301 149 2021-10-19 12:21:02.073620: W tensorflow/core/lib/ pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile 1/27 [>.....] - ETA: 44s -150 loss: 0.9545 - accuracy: 0.65622021-10-19 12:21:03. 150166: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile 151 8/27 [======>.....] - ETA: 12s loss: 1.1961 - accuracy: 0.53522021-10-19 12:21:07. 474648: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile 152 2021-10-19 12:21:07.554760: W tensorflow/core/lib/ png/png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile 153 2021-10-19 12:21:07.592759: W tensorflow/core/lib/ png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'desc': ICC profile tag start not a multiple of 4 154 2021-10-19 12:21:07.593369: W tensorflow/core/lib/ pnq/pnq_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'wtpt': ICC profile tag start not a multiple of 4 155 2021-10-19 12:21:07.593767: W tensorflow/core/lib/ png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'bkpt': ICC profile tag start not a multiple of 4 156 2021-10-19 12:21:07.594217: W tensorflow/core/lib/ pnq/pnq_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'rXYZ': ICC profile tag start not a multiple of 4 157 2021-10-19 12:21:07.594625: W tensorflow/core/lib/ pnq/pnq_io.cc:88] PNG warning: iCCP: profile 'ICC

- 157 Profile': 'gXYZ': ICC profile tag start not a multiple of 4
- 158 2021-10-19 12:21:07.595027: 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
- 159 2021-10-19 12:21:07.595410: 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
- 160 2021-10-19 12:21:07.595861: 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
- 161 2021-10-19 12:21:07.596262: 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
- 162 2021-10-19 12:21:07.596657: 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
- 163 2021-10-19 12:21:07.602121: 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
- 164 2021-10-19 12:21:07.602689: 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
- 165 2021-10-19 12:21:07.603249: 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
- 166 2021-10-19 12:21:07.603756: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'rTRC': ICC profile tag start not a multiple of 4
- 167 2021-10-19 12:21:07.604192: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'gTRC': ICC profile tag start not a

```
167 multiple of 4
168 2021-10-19 12:21:07.604652: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: profile 'ICC
   Profile': 'bTRC': ICC profile tag start not a
   multiple of 4
169 15/27 [=========>.....] - ETA: 7s -
   loss: 1.2323 - accuracy: 0.54372021-10-19 12:21:11.
   952088: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
step - loss: 1.2333 - accuracy: 0.5498
171 Accuracy: 0.5497685074806213
172 Loss: 1.233312726020813
173 end
174
175 Process finished with exit code 0
176
```