- 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 13:20:37.533541: 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 13:20:37.534017: 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 13:20:54.130032: 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 13:20:54.131278: W tensorflow/ stream_executor/cuda/cuda_driver.cc:269] failed call to cuInit: UNKNOWN ERROR (303)
- 10 2021-10-19 13:20:54.151076: I tensorflow/ stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: D26265VWTB0E
- 11 2021-10-19 13:20:54.151683: I tensorflow/ stream_executor/cuda/cuda_diagnostics.cc:176] hostname: D26265VWTBOE
- 12 2021-10-19 13:20:54.152291: 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 1/30
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 2021-10-19 13:20:56.724502: I tensorflow/compiler/
  mlir/mlir_graph_optimization_pass.cc:185] None of the
   MLIR Optimization Passes are enabled (registered 2)
   2/196 [.....] - ETA: 8:11
55
```

```
- loss: 5.2303 - accuracy: 0.2500 2021-10-19 13:
  21:03.087262: W tensorflow/core/lib/png/png_io.cc:88
  ] PNG warning: iCCP: known incorrect sRGB profile
    4/196 [.....] - ETA: 8:30
56
   - loss: 3.5625 - accuracy: 0.17972021-10-19 13:21:08
  .642571: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
57
    5/196 [.....] - ETA: 8:28
   - loss: 3.1717 - accuracy: 0.23752021-10-19 13:21:11
  .469499: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
   13/196 [>.....] - ETA: 7:46
58
   - loss: 2.1244 - accuracy: 0.31492021-10-19 13:21:31
  .303364: W tensorflow/core/lib/png/png io.cc:881 PNG
  warning: iCCP: known incorrect sRGB profile
59
  46/196 [=====>.....] - ETA: 5:52
   - loss: 1.6033 - accuracy: 0.38452021-10-19 13:22:46
  .314009: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
60 47/196 [=====>.....] - ETA: 5:49
   - loss: 1.6027 - accuracy: 0.38502021-10-19 13:22:48
  .559197: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
61 56/196 [======>.....] - ETA: 5:33
   - loss: 1.5562 - accuracy: 0.40012021-10-19 13:23:11
  .714937: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
62 59/196 [=======>.....] - ETA: 5:25
   - loss: 1.5467 - accuracy: 0.40042021-10-19 13:23:18
   .396133: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
63
  60/196 [=======>.....] - ETA: 5:22
   - loss: 1.5445 - accuracy: 0.40212021-10-19 13:23:20
  .615540: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
  65/196 [=======>....] - ETA: 5:09
64
   - loss: 1.5290 - accuracy: 0.40342021-10-19 13:23:31
   .834577: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
  73/196 [========>.....] - ETA: 4:48
65
   - loss: 1.5121 - accuracy: 0.40502021-10-19 13:23:49
```

```
65 .723257: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
66
   76/196 [=======>.....] - ETA: 4:40
   - loss: 1.5041 - accuracy: 0.40712021-10-19 13:23:
  56.194388: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
   82/196 [========>.....] - ETA: 4:25
   - loss: 1.4928 - accuracy: 0.40852021-10-19 13:24:
  09.220134: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  87/196 [========>....] - ETA: 4:12
   - loss: 1.4849 - accuracy: 0.40732021-10-19 13:24:
  20.146393: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  92/196 [========>....] - ETA: 4:00
   - loss: 1.4773 - accuracy: 0.40792021-10-19 13:24:
  31.160992: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  96/196 [=========>....] - ETA: 3:51
70
   - loss: 1.4723 - accuracy: 0.41152021-10-19 13:24:
  40.627203: W tensorflow/core/lib/png/png io.cc:881
  PNG warning: iCCP: known incorrect sRGB profile
71 109/196 [==========>.....] - ETA: 3:20
   - loss: 1.4572 - accuracy: 0.42292021-10-19 13:25:
  10.013534: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
72 118/196 [==========>....] - ETA: 2:59
   - loss: 1.4511 - accuracy: 0.42322021-10-19 13:25:
  29.827801: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
73 120/196 [===========>.....] - ETA: 2:54
   - loss: 1.4483 - accuracy: 0.42502021-10-19 13:25:
  34.170873: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
74 122/196 [==========>....] - ETA: 2:50
   - loss: 1.4469 - accuracy: 0.42572021-10-19 13:25:
  39.125338: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
75 2021-10-19 13:25:39.848104: W tensorflow/core/lib/
  png/png_io.cc:88] PNG warning: iCCP: known incorrect
   sRGB profile
```

```
76 127/196 [===========>....] - ETA: 2:39
   - loss: 1.4397 - accuracy: 0.42862021-10-19 13:25:
  52.075224: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
77 130/196 [============>....] - ETA: 2:33
   - loss: 1.4422 - accuracy: 0.42862021-10-19 13:25:
  59.827316: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
78 131/196 [=============>....] - ETA: 2:30
   - loss: 1.4395 - accuracy: 0.43012021-10-19 13:26:
  02.622698: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
79 134/196 [=============>....] - ETA: 2:23
   - loss: 1.4376 - accuracy: 0.43072021-10-19 13:26:
  09.574961: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
80 136/196 [============>....] - ETA: 2:19
   - loss: 1.4352 - accuracy: 0.43112021-10-19 13:26:
  13.941916: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
81 2021-10-19 13:26:13.995849: W tensorflow/core/lib/
  pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
   sRGB profile
82 155/196 [===============>.....] - ETA: 1:35
   - loss: 1.4220 - accuracy: 0.43552021-10-19 13:26:
  57.932527: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4176 - accuracy: 0.43472021-10-19 13:27:
  23.053734: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4127 - accuracy: 0.43752021-10-19 13:27:
  37.284275: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4108 - accuracy: 0.43802021-10-19 13:27:
  41.674417: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
86 196/196 [============ ] - ETA: Os
   - loss: 1.4030 - accuracy: 0.43862021-10-19 13:28:
```

```
86 30.571557: W tensorflow/core/lib/png/png_io.cc:88]
   PNG warning: iCCP: known incorrect sRGB profile
87 2021-10-19 13:28:30.879749: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
88 2021-10-19 13:28:32.345521: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
89 2021-10-19 13:28:47.806107: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
90 2021-10-19 13:28:48.365051: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
91 2021-10-19 13:28:55.797350: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
step - loss: 1.4030 - accuracy: 0.4386 - val_loss: 1
   .2978 - val_accuracy: 0.4808
93 Epoch 2/30
step - loss: 1.3356 - accuracy: 0.4495 - val_loss: 1
   .3041 - val_accuracy: 0.4795
95 Epoch 3/30
step - loss: 1.3074 - accuracy: 0.4617 - val_loss: 1
   .2799 - val_accuracy: 0.4866
97 Epoch 4/30
step - loss: 1.2951 - accuracy: 0.4713 - val_loss: 1
   .2626 - val accuracy: 0.5032
99 Epoch 5/30
step - loss: 1.2848 - accuracy: 0.4775 - val_loss: 1
   .3194 - val_accuracy: 0.4449
101 Epoch 6/30
step - loss: 1.2818 - accuracy: 0.4786 - val_loss: 1
   .2939 - val_accuracy: 0.4718
103 Epoch 7/30
```

```
step - loss: 1.2705 - accuracy: 0.4826 - val_loss: 1
  .2519 - val_accuracy: 0.5051
105 Epoch 8/30
step - loss: 1.2620 - accuracy: 0.4822 - val_loss: 1
  .2380 - val_accuracy: 0.5141
107 Epoch 9/30
step - loss: 1.2555 - accuracy: 0.4820 - val_loss: 1
  .2313 - val_accuracy: 0.5083
109 Epoch 10/30
step - loss: 1.2553 - accuracy: 0.4831 - val_loss: 1
  .2337 - val_accuracy: 0.5058
111 Epoch 11/30
step - loss: 1.2574 - accuracy: 0.4836 - val_loss: 1
  .2313 - val_accuracy: 0.5122
113 Epoch 12/30
step - loss: 1.2428 - accuracy: 0.4951 - val_loss: 1
  .2192 - val accuracy: 0.5083
115 Epoch 13/30
step - loss: 1.2438 - accuracy: 0.4942 - val_loss: 1
  .2106 - val_accuracy: 0.5154
117 Epoch 14/30
step - loss: 1.2400 - accuracy: 0.4943 - val_loss: 1
  .2127 - val_accuracy: 0.5147
119 Epoch 15/30
step - loss: 1.2248 - accuracy: 0.4985 - val_loss: 1
  .2041 - val_accuracy: 0.5205
121 Epoch 16/30
step - loss: 1.2240 - accuracy: 0.4983 - val_loss: 1
  .2231 - val_accuracy: 0.5147
123 Epoch 17/30
```

```
124 step - loss: 1.2259 - accuracy: 0.4993 - val_loss: 1
  .2174 - val_accuracy: 0.5013
125 Epoch 18/30
step - loss: 1.2122 - accuracy: 0.5060 - val_loss: 1
  .2078 - val_accuracy: 0.5070
127 Epoch 19/30
step - loss: 1.2073 - accuracy: 0.5090 - val_loss: 1
  .2023 - val_accuracy: 0.5064
129 Epoch 20/30
step - loss: 1.2040 - accuracy: 0.5118 - val_loss: 1
  .1902 - val_accuracy: 0.5230
131 Epoch 21/30
step - loss: 1.1895 - accuracy: 0.5145 - val_loss: 1
  .1966 - val_accuracy: 0.5128
133 Epoch 22/30
step - loss: 1.1896 - accuracy: 0.5146 - val_loss: 1
  .1945 - val_accuracy: 0.5237
135 Epoch 23/30
step - loss: 1.1756 - accuracy: 0.5204 - val_loss: 1
  .2029 - val_accuracy: 0.5269
137 Epoch 24/30
step - loss: 1.1605 - accuracy: 0.5302 - val_loss: 1
  .2002 - val_accuracy: 0.5198
139 Epoch 25/30
step - loss: 1.1562 - accuracy: 0.5316 - val_loss: 1
  .2212 - val_accuracy: 0.5083
141 Epoch 26/30
step - loss: 1.1490 - accuracy: 0.5327 - val_loss: 1
  .2049 - val_accuracy: 0.5243
143 Epoch 27/30
step - loss: 1.1472 - accuracy: 0.5326 - val_loss: 1
```

```
144 .2132 - val_accuracy: 0.5230
145 Epoch 28/30
146 196/196 [============= ] - 470s 2s/
   step - loss: 1.1332 - accuracy: 0.5390 - val_loss: 1
   .2323 - val_accuracy: 0.5192
147 Epoch 29/30
148 196/196 [============= ] - 452s 2s/
   step - loss: 1.1313 - accuracy: 0.5399 - val_loss: 1
   .2318 - val_accuracy: 0.4910
149 Epoch 30/30
step - loss: 1.1244 - accuracy: 0.5441 - val_loss: 1
   .2230 - val_accuracy: 0.5006
151 2021-10-19 17:11:02.170382: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
152 2021-10-19 17:11:03.554608: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
153 10/27 [=======>.....] - ETA: 13s -
   loss: 1.2375 - accuracy: 0.54062021-10-19 17:11:08.
   769818: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
154 2021-10-19 17:11:08.846191: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
155 2021-10-19 17:11:08.903472: 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
156 2021-10-19 17:11:08.903957: 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
157 2021-10-19 17:11:08.904396: 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
158 2021-10-19 17:11:08.904832: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: profile 'ICC
   Profile': 'rXYZ': ICC profile tag start not a
```

- 158 multiple of 4
- 159 2021-10-19 17:11:08.905317: 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
- 160 2021-10-19 17:11:08.905752: 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
- 161 2021-10-19 17:11:08.906184: 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
- 162 2021-10-19 17:11:08.906608: 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
- 163 2021-10-19 17:11:08.907032: 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
- 164 2021-10-19 17:11:08.907456: 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
- 165 2021-10-19 17:11:08.907882: 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
- 166 2021-10-19 17:11:08.908303: 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
- 167 2021-10-19 17:11:08.908723: 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
- 168 2021-10-19 17:11:08.909144: 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

```
169 2021-10-19 17:11:08.909560: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: profile 'ICC
   Profile': 'qTRC': ICC profile tag start not a
   multiple of 4
170 2021-10-19 17:11:08.909981: 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
171 15/27 [=========>.....] - ETA: 9s -
   loss: 1.2615 - accuracy: 0.5437 2021-10-19 17:11:14.
   243085: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
step - loss: 1.2590 - accuracy: 0.5359
173 Accuracy: 0.5358796119689941
174 Loss: 1.2589768171310425
175 end
176
177 Process finished with exit code 0
178
```