- 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 2021-10-14 08:22:18.990843: 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 2021-10-14 08:22:18.991278: 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 2021-10-14 08:22:33.657783: W tensorflow/ stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror : nvcuda.dll not found
- 9 2021-10-14 08:22:33.658261: W tensorflow/ stream_executor/cuda/cuda_driver.cc:269] failed call to cuInit: UNKNOWN ERROR (303)
- 10 2021-10-14 08:22:33.675383: I tensorflow/ stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: D26265VWTB0E
- 11 2021-10-14 08:22:33.675946: I tensorflow/ stream_executor/cuda/cuda_diagnostics.cc:176] hostname: D26265VWTB0E
- 12 2021-10-14 08:22:33.676550: 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)

29491456
                         (None, 256
42 _____
43 dense_1 (Dense)
                         (None, 256
          65792
44 _____
45 dense_2 (Dense)
                         (None, 128
          32896
46
47 dense_3 (Dense)
) 774
                         (None, 6
                774
=========
49 Total params: 29,684,166
50 Trainable params: 29,684,166
51 Non-trainable params: 0
52 _____
53 Epoch 1/30
54 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 `
55
  from_logits=True`, but '
```

```
56 2021-10-14 08:22:36.274021: I tensorflow/compiler/
  mlir/mlir_graph_optimization_pass.cc:185] None of the
   MLIR Optimization Passes are enabled (registered 2)
    2/196 [.....] - ETA: 8:29
57
   - loss: 3.2003 - accuracy: 0.3125 2021-10-14 08:22:
  43.054468: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
    4/196 [.....] - ETA: 8:35
58
   - loss: 3.1102 - accuracy: 0.32032021-10-14 08:22:48
  .755003: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
59 2021-10-14 08:22:51.589900: W tensorflow/core/lib/png
  /png_io.cc:88] PNG warning: iCCP: known incorrect
  sRGB profile
   13/196 [>.....] - ETA: 7:50
60
   - loss: 2.0222 - accuracy: 0.33652021-10-14 08:23:11
  .548687: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
   45/196 [====>.....] - ETA: 5:43
61
   - loss: 1.5706 - accuracy: 0.40972021-10-14 08:24:20
   .606219: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
   46/196 [=====>...... - ETA: 5:40
62
   - loss: 1.5683 - accuracy: 0.41032021-10-14 08:24:22
   .672983: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
   55/196 [======>.....] - ETA: 5:17
63
   - loss: 1.5311 - accuracy: 0.42102021-10-14 08:24:42
   .074396: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
   58/196 [======>.....] - ETA: 5:09
64
   - loss: 1.5188 - accuracy: 0.42082021-10-14 08:24:48
   .352906: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
   59/196 [======>....] - ETA: 5:06
65
   - loss: 1.5169 - accuracy: 0.42062021-10-14 08:24:50
   .461067: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
   64/196 [======>.....] - ETA: 4:57
66
   - loss: 1.5064 - accuracy: 0.42192021-10-14 08:25:02
   .445391: W tensorflow/core/lib/png/png_io.cc:88] PNG
```

```
66 warning: iCCP: known incorrect sRGB profile
   72/196 [=======>....] - ETA: 4:41
67
   - loss: 1.4902 - accuracy: 0.42142021-10-14 08:25:
  22.028616: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  75/196 [=======>.....] - ETA: 4:34
68
   - loss: 1.4841 - accuracy: 0.42332021-10-14 08:25:
  28.531738: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  81/196 [========>.....] - ETA: 4:20
   - loss: 1.4754 - accuracy: 0.42442021-10-14 08:25:
  41.863394: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  86/196 [========>.....] - ETA: 4:08
70
   - loss: 1.4665 - accuracy: 0.42302021-10-14 08:25:
  52.359403: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
71 91/196 [========>....] - ETA: 3:56
   - loss: 1.4616 - accuracy: 0.42342021-10-14 08:26:
  03.261420: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  95/196 [=========>.....] - ETA: 3:46
   - loss: 1.4579 - accuracy: 0.42602021-10-14 08:26:
  11.835610: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
73 108/196 [==========>....] - ETA: 3:17
   - loss: 1.4460 - accuracy: 0.43612021-10-14 08:26:
  40.447176: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
74 117/196 [==========>.....] - ETA: 2:56
   - loss: 1.4405 - accuracy: 0.43702021-10-14 08:26:
  59.928592: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
75 119/196 [===========>....] - ETA: 2:52
   - loss: 1.4408 - accuracy: 0.43592021-10-14 08:27:
  04.276720: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
76 121/196 [==========>....] - ETA: 2:47
   - loss: 1.4369 - accuracy: 0.43752021-10-14 08:27:
  08.834185: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
```

```
77 2021-10-14 08:27:09.488819: W tensorflow/core/lib/
  pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
   sRGB profile
78 126/196 [============>.....] - ETA: 2:36
   - loss: 1.4308 - accuracy: 0.44002021-10-14 08:27:
  19.583402: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
79 129/196 [===========>....] - ETA: 2:29
   - loss: 1.4297 - accuracy: 0.44112021-10-14 08:27:
  25.825604: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
80 130/196 [===========>....] - ETA: 2:27
   - loss: 1.4322 - accuracy: 0.44012021-10-14 08:27:
  28.130028: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
81 133/196 [============>....] - ETA: 2:20
   - loss: 1.4285 - accuracy: 0.44172021-10-14 08:27:
  34.578719: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
82 135/196 [===========>....] - ETA: 2:16
   - loss: 1.4271 - accuracy: 0.44212021-10-14 08:27:
  39.985713: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
83 2021-10-14 08:27:39.986147: W tensorflow/core/lib/
  pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
   sRGB profile
- loss: 1.4153 - accuracy: 0.44622021-10-14 08:28:
  22.382688: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4140 - accuracy: 0.44362021-10-14 08:28:
  46.403901: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4087 - accuracy: 0.44652021-10-14 08:28:
  58.930038: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4077 - accuracy: 0.44652021-10-14 08:29:
  03.123794: W tensorflow/core/lib/png/png_io.cc:88]
```

```
87 PNG warning: iCCP: known incorrect sRGB profile
88 196/196 [============ ] - ETA: Os
    - loss: 1.3998 - accuracy: 0.44602021-10-14 08:29:
   51.969666: W tensorflow/core/lib/png/png_io.cc:88]
   PNG warning: iCCP: known incorrect sRGB profile
89 2021-10-14 08:29:52.183509: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
90 2021-10-14 08:29:53.895924: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
91 2021-10-14 08:30:08.957632: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
92 2021-10-14 08:30:09.435965: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
93 2021-10-14 08:30:16.780550: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
step - loss: 1.3998 - accuracy: 0.4460 - val_loss: 1
   .3307 - val accuracy: 0.4795
95 Epoch 2/30
step - loss: 1.3397 - accuracy: 0.4542 - val_loss: 1
   .3261 - val_accuracy: 0.4763
97 Epoch 3/30
98 196/196 [============= ] - 424s 2s/
   step - loss: 1.3221 - accuracy: 0.4542 - val_loss: 1
   .2972 - val_accuracy: 0.4885
99 Epoch 4/30
step - loss: 1.3020 - accuracy: 0.4654 - val_loss: 1
   .2896 - val_accuracy: 0.4891
101 Epoch 5/30
step - loss: 1.2886 - accuracy: 0.4759 - val_loss: 1
   .2929 - val_accuracy: 0.4891
103 Epoch 6/30
```

```
104 step - loss: 1.2821 - accuracy: 0.4753 - val_loss: 1
  .2746 - val_accuracy: 0.4878
105 Epoch 7/30
step - loss: 1.2792 - accuracy: 0.4798 - val_loss: 1
  .2577 - val_accuracy: 0.5026
107 Epoch 8/30
step - loss: 1.2762 - accuracy: 0.4799 - val_loss: 1
  .2635 - val_accuracy: 0.4936
109 Epoch 9/30
step - loss: 1.2671 - accuracy: 0.4847 - val_loss: 1
  .2947 - val accuracy: 0.4641
111 Epoch 10/30
step - loss: 1.2636 - accuracy: 0.4892 - val_loss: 1
  .2448 - val_accuracy: 0.5051
113 Epoch 11/30
step - loss: 1.2621 - accuracy: 0.4778 - val_loss: 1
  .2370 - val_accuracy: 0.5096
115 Epoch 12/30
step - loss: 1.2529 - accuracy: 0.4863 - val_loss: 1
  .2263 - val_accuracy: 0.5192
117 Epoch 13/30
step - loss: 1.2470 - accuracy: 0.4897 - val_loss: 1
  .2342 - val_accuracy: 0.5045
119 Epoch 14/30
step - loss: 1.2456 - accuracy: 0.4913 - val_loss: 1
  .2177 - val_accuracy: 0.5186
121 Epoch 15/30
step - loss: 1.2419 - accuracy: 0.4929 - val_loss: 1
  .2130 - val_accuracy: 0.5237
123 Epoch 16/30
step - loss: 1.2374 - accuracy: 0.4969 - val_loss: 1
```

```
124 .2089 - val_accuracy: 0.5269
125 Epoch 17/30
step - loss: 1.2276 - accuracy: 0.5007 - val_loss: 1
  .2135 - val_accuracy: 0.5250
127 Epoch 18/30
step - loss: 1.2261 - accuracy: 0.5014 - val_loss: 1
  .2119 - val_accuracy: 0.5243
129 Epoch 19/30
step - loss: 1.2226 - accuracy: 0.5030 - val_loss: 1
  .2006 - val_accuracy: 0.5320
131 Epoch 20/30
132 196/196 [============= ] - 413s 2s/
  step - loss: 1.2130 - accuracy: 0.5103 - val_loss: 1
  .2002 - val_accuracy: 0.5230
133 Epoch 21/30
step - loss: 1.2145 - accuracy: 0.5084 - val_loss: 1
  .2035 - val_accuracy: 0.5224
135 Epoch 22/30
step - loss: 1.2070 - accuracy: 0.5068 - val_loss: 1
  .2015 - val_accuracy: 0.5288
137 Epoch 23/30
step - loss: 1.1966 - accuracy: 0.5116 - val_loss: 1
  .2191 - val_accuracy: 0.5262
139 Epoch 24/30
step - loss: 1.1961 - accuracy: 0.5134 - val_loss: 1
  .1953 - val_accuracy: 0.5275
141 Epoch 25/30
step - loss: 1.1860 - accuracy: 0.5148 - val_loss: 1
  .2035 - val_accuracy: 0.5250
143 Epoch 26/30
step - loss: 1.1883 - accuracy: 0.5169 - val_loss: 1
  .1950 - val_accuracy: 0.5230
```

```
145 Epoch 27/30
step - loss: 1.1800 - accuracy: 0.5220 - val_loss: 1
   .2041 - val_accuracy: 0.5282
147 Epoch 28/30
148 196/196 [============= ] - 418s 2s/
   step - loss: 1.1742 - accuracy: 0.5239 - val_loss: 1
   .2182 - val_accuracy: 0.5256
149 Epoch 29/30
step - loss: 1.1572 - accuracy: 0.5281 - val_loss: 1
   .2188 - val_accuracy: 0.5237
151 Epoch 30/30
152 196/196 [============= ] - 429s 2s/
   step - loss: 1.1592 - accuracy: 0.5300 - val_loss: 1
   .2014 - val_accuracy: 0.5218
153 2021-10-14 11:55:19.300054: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
   1/27 [>.....] - ETA: 40s -
154
   loss: 0.9036 - accuracy: 0.68752021-10-14 11:55:20.
   299983: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
155 8/27 [======>.....] - ETA: 12s -
   loss: 1.1879 - accuracy: 0.55472021-10-14 11:55:24.
   702423: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
156 2021-10-14 11:55:24.773113: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
157 2021-10-14 11:55:24.841354: 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
158 2021-10-14 11:55:24.841844: 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
159 2021-10-14 11:55:24.842261: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: profile 'ICC
   Profile': 'bkpt': ICC profile tag start not a
```

- 159 multiple of 4
- 160 2021-10-14 11:55:24.842639: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'rXYZ': ICC profile tag start not a multiple of 4
- 161 2021-10-14 11:55:24.843014: 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
- 162 2021-10-14 11:55:24.843392: 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
- 163 2021-10-14 11:55:24.843782: 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
- 164 2021-10-14 11:55:24.844292: 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
- 165 2021-10-14 11:55:24.844751: 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
- 166 2021-10-14 11:55:24.845133: 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
- 167 2021-10-14 11:55:24.845523: 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
- 168 2021-10-14 11:55:24.845911: 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
- 169 2021-10-14 11:55:24.846284: 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

```
170 2021-10-14 11:55:24.846667: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: profile 'ICC
   Profile': 'rTRC': ICC profile tag start not a
   multiple of 4
171 2021-10-14 11:55:24.847745: 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
172 2021-10-14 11:55:24.848228: 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
173 15/27 [=========>....] - ETA: 7s -
   loss: 1.2413 - accuracy: 0.54372021-10-14 11:55:29.
   521093: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
step - loss: 1.2419 - accuracy: 0.5417
175 Accuracy: 0.5416666865348816
176 Loss: 1.241881012916565
177 end
178
179 Process finished with exit code 0
180
```