- 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 2021-10-18 08:15:13.628004: 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 2021-10-18 08:15:13.628601: 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 2021-10-18 08:15:25.631270: W tensorflow/ stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror : nvcuda.dll not found
- 9 2021-10-18 08:15:25.631836: W tensorflow/ stream_executor/cuda/cuda_driver.cc:269] failed call to cuInit: UNKNOWN ERROR (303)
- 10 2021-10-18 08:15:25.648947: I tensorflow/ stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: D26265VWTB0E
- 11 2021-10-18 08:15:25.649537: I tensorflow/ stream_executor/cuda/cuda_diagnostics.cc:176] hostname: D26265VWTB0E
- 12 2021-10-18 08:15:25.650111: 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 _____
                   (None, 115200
39 flatten (Flatten)
40 _____
41 dense (Dense)
                         (None, 128
            14745728
42 _____
43 dense_1 (Dense)
                         (None, 128
          16512
44 _____
45 dense_2 (Dense)
                         (None, 6
                774
47 Total params: 14,856,262
48 Trainable params: 14,856,262
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 2021-10-18 08:15:28.080439: I tensorflow/compiler/
  mlir/mlir_graph_optimization_pass.cc:185] None of the
   MLIR Optimization Passes are enabled (registered 2)
    2/196 [.....] - ETA: 6:37
55
```

```
- loss: 2.2383 - accuracy: 0.2656 2021-10-18 08:15:
  33.930771: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
56
    4/196 [.....] - ETA: 6:37
   - loss: 2.0056 - accuracy: 0.27342021-10-18 08:15:38
  .198877: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
57
    5/196 [.....] - ETA: 6:44
   - loss: 1.9130 - accuracy: 0.31252021-10-18 08:15:40
  .492189: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
   13/196 [>.....] - ETA: 6:22
58
   - loss: 1.6369 - accuracy: 0.38222021-10-18 08:15:57
  .107224: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
59
  45/196 [=====>.....] - ETA: 5:15
   - loss: 1.4654 - accuracy: 0.39582021-10-18 08:17:03
  .858790: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
  46/196 [=====>.....] - ETA: 5:13
60
   - loss: 1.4658 - accuracy: 0.39672021-10-18 08:17:05
   .893427: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
61 55/196 [======>.....] - ETA: 4:54
   - loss: 1.4459 - accuracy: 0.40972021-10-18 08:17:24
  .754816: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
62 58/196 [======>.....] - ETA: 4:48
   - loss: 1.4381 - accuracy: 0.41002021-10-18 08:17:31
   .112355: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
63
  59/196 [=======>.....] - ETA: 4:46
   - loss: 1.4376 - accuracy: 0.41002021-10-18 08:17:33
  .178359: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
  64/196 [=======>....] - ETA: 4:34
64
   - loss: 1.4339 - accuracy: 0.41212021-10-18 08:17:43
   .118414: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
  72/196 [========>.....] - ETA: 4:17
65
   - loss: 1.4248 - accuracy: 0.41152021-10-18 08:17:59
```

```
65 .622718: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
66
   75/196 [=======>.....] - ETA: 4:11
   - loss: 1.4205 - accuracy: 0.41372021-10-18 08:18:
  06.058527: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
   81/196 [========>.....] - ETA: 3:58
   - loss: 1.4159 - accuracy: 0.41552021-10-18 08:18:
  18.164140: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  86/196 [========>....] - ETA: 3:48
   - loss: 1.4093 - accuracy: 0.41572021-10-18 08:18:
  28.697078: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  91/196 [=========>....] - ETA: 3:38
   - loss: 1.4097 - accuracy: 0.41452021-10-18 08:18:
  38.996846: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  95/196 [=========>.....] - ETA: 3:29
70
   - loss: 1.4073 - accuracy: 0.41742021-10-18 08:18:
  47.625117: W tensorflow/core/lib/png/png io.cc:881
  PNG warning: iCCP: known incorrect sRGB profile
71 108/196 [==========>.....] - ETA: 3:02
   - loss: 1.3995 - accuracy: 0.42852021-10-18 08:19:
  14.268244: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
72 117/196 [==========>.....] - ETA: 2:44
   - loss: 1.3962 - accuracy: 0.43002021-10-18 08:19:
  32.798626: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
73 119/196 [===========>.....] - ETA: 2:39
   - loss: 1.3972 - accuracy: 0.42912021-10-18 08:19:
  36.798398: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
74 121/196 [===========>....] - ETA: 2:35
   - loss: 1.3948 - accuracy: 0.43082021-10-18 08:19:
  41.076356: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
75 2021-10-18 08:19:41.729299: W tensorflow/core/lib/
  png/png_io.cc:88] PNG warning: iCCP: known incorrect
   sRGB profile
```

```
76 126/196 [===========>....] - ETA: 2:25
   - loss: 1.3896 - accuracy: 0.43352021-10-18 08:19:
  51.832989: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
77 129/196 [============>....] - ETA: 2:19
   - loss: 1.3903 - accuracy: 0.43482021-10-18 08:19:
  57.947251: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
78 130/196 [===========>....] - ETA: 2:17
   - loss: 1.3935 - accuracy: 0.43392021-10-18 08:20:
  00.351061: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
79 133/196 [=============>....] - ETA: 2:10
   - loss: 1.3906 - accuracy: 0.43562021-10-18 08:20:
  06.569657: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
80 135/196 [============>....] - ETA: 2:06
   - loss: 1.3897 - accuracy: 0.43612021-10-18 08:20:
  10.715547: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
81 2021-10-18 08:20:10.718396: W tensorflow/core/lib/
  pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
   sRGB profile
- loss: 1.3825 - accuracy: 0.44092021-10-18 08:20:
  50.998743: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.3826 - accuracy: 0.43882021-10-18 08:21:
  15.160505: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.3787 - accuracy: 0.44192021-10-18 08:21:
  27.998784: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.3781 - accuracy: 0.44202021-10-18 08:21:
  31.945732: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
86 196/196 [=========== ] - ETA: Os
   - loss: 1.3738 - accuracy: 0.44182021-10-18 08:22:
```

```
86 19.387402: W tensorflow/core/lib/png/png_io.cc:88]
   PNG warning: iCCP: known incorrect sRGB profile
87 2021-10-18 08:22:19.694542: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
88 2021-10-18 08:22:21.075860: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
89 2021-10-18 08:22:35.378744: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
90 2021-10-18 08:22:35.885763: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
91 2021-10-18 08:22:44.123582: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
step - loss: 1.3738 - accuracy: 0.4418 - val_loss: 1
   .2951 - val_accuracy: 0.4795
93 Epoch 2/30
step - loss: 1.3226 - accuracy: 0.4585 - val_loss: 1
   .3055 - val_accuracy: 0.4846
95 Epoch 3/30
96 196/196 [============== ] - 407s 2s/
   step - loss: 1.3142 - accuracy: 0.4673 - val_loss: 1
   .2654 - val_accuracy: 0.4904
97 Epoch 4/30
step - loss: 1.2936 - accuracy: 0.4735 - val_loss: 1
   .2646 - val accuracy: 0.4987
99 Epoch 5/30
step - loss: 1.2766 - accuracy: 0.4782 - val_loss: 1
   .2709 - val_accuracy: 0.5051
101 Epoch 6/30
step - loss: 1.2720 - accuracy: 0.4820 - val_loss: 1
   .2596 - val_accuracy: 0.5038
103 Epoch 7/30
```

```
104 196/196 [============= ] - 428s 2s/
  step - loss: 1.2634 - accuracy: 0.4858 - val_loss: 1
  .2353 - val_accuracy: 0.5058
105 Epoch 8/30
step - loss: 1.2593 - accuracy: 0.4855 - val_loss: 1
  .2350 - val_accuracy: 0.5077
107 Epoch 9/30
step - loss: 1.2623 - accuracy: 0.4831 - val_loss: 1
  .2305 - val_accuracy: 0.5045
109 Epoch 10/30
step - loss: 1.2503 - accuracy: 0.4924 - val_loss: 1
  .2265 - val_accuracy: 0.5096
111 Epoch 11/30
step - loss: 1.2426 - accuracy: 0.4921 - val_loss: 1
  .2183 - val_accuracy: 0.5141
113 Epoch 12/30
step - loss: 1.2366 - accuracy: 0.4982 - val_loss: 1
  .2571 - val accuracy: 0.5102
115 Epoch 13/30
step - loss: 1.2309 - accuracy: 0.4999 - val_loss: 1
  .2177 - val_accuracy: 0.5224
117 Epoch 14/30
step - loss: 1.2253 - accuracy: 0.5002 - val_loss: 1
  .2219 - val_accuracy: 0.5262
119 Epoch 15/30
step - loss: 1.2242 - accuracy: 0.5039 - val_loss: 1
  .2061 - val_accuracy: 0.5314
121 Epoch 16/30
step - loss: 1.2199 - accuracy: 0.5076 - val_loss: 1
  .2241 - val_accuracy: 0.5314
123 Epoch 17/30
```

```
124 step - loss: 1.2177 - accuracy: 0.5097 - val_loss: 1
  .2089 - val_accuracy: 0.5237
125 Epoch 18/30
step - loss: 1.1981 - accuracy: 0.5172 - val_loss: 1
  .2267 - val_accuracy: 0.5064
127 Epoch 19/30
step - loss: 1.1980 - accuracy: 0.5132 - val_loss: 1
  .2111 - val_accuracy: 0.5198
129 Epoch 20/30
step - loss: 1.1889 - accuracy: 0.5167 - val_loss: 1
  .2173 - val_accuracy: 0.5294
131 Epoch 21/30
step - loss: 1.1845 - accuracy: 0.5188 - val_loss: 1
  .2208 - val_accuracy: 0.5320
133 Epoch 22/30
step - loss: 1.1712 - accuracy: 0.5223 - val_loss: 1
  .2200 - val_accuracy: 0.5224
135 Epoch 23/30
step - loss: 1.1704 - accuracy: 0.5262 - val_loss: 1
  .2445 - val_accuracy: 0.5224
137 Epoch 24/30
step - loss: 1.1603 - accuracy: 0.5278 - val_loss: 1
  .2256 - val_accuracy: 0.5218
139 Epoch 25/30
step - loss: 1.1428 - accuracy: 0.5385 - val_loss: 1
  .2214 - val_accuracy: 0.5327
141 Epoch 26/30
step - loss: 1.1551 - accuracy: 0.5348 - val_loss: 1
  .2156 - val_accuracy: 0.5166
143 Epoch 27/30
step - loss: 1.1371 - accuracy: 0.5418 - val_loss: 1
```

```
144 .2170 - val_accuracy: 0.5096
145 Epoch 28/30
146 196/196 [============= ] - 423s 2s/
   step - loss: 1.1271 - accuracy: 0.5439 - val_loss: 1
   .2200 - val_accuracy: 0.5173
147 Epoch 29/30
148 196/196 [============= ] - 431s 2s/
   step - loss: 1.1282 - accuracy: 0.5452 - val_loss: 1
   .1914 - val_accuracy: 0.5224
149 Epoch 30/30
step - loss: 1.1188 - accuracy: 0.5481 - val_loss: 1
    .2031 - val_accuracy: 0.5160
151 2021-10-18 11:43:50.774050: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
152 2021-10-18 11:43:52.069083: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
153 7/27 [=====>.....] - ETA: 13s -
   loss: 1.1927 - accuracy: 0.54022021-10-18 11:43:56.
   683523: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
154 2021-10-18 11:43:56.765467: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
155 2021-10-18 11:43:56.875089: 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 2021-10-18 11:43:56.875564: 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 2021-10-18 11:43:56.875981: 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 2021-10-18 11:43:56.876361: 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 2021-10-18 11:43:56.876848: 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 2021-10-18 11:43:56.877235: 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 2021-10-18 11:43:56.877600: 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 2021-10-18 11:43:56.877967: 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 2021-10-18 11:43:56.878339: 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 2021-10-18 11:43:56.878703: 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 2021-10-18 11:43:56.879071: 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 2021-10-18 11:43:56.879444: 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 2021-10-18 11:43:56.879860: 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 2021-10-18 11:43:56.880341: 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 2021-10-18 11:43:56.880823: 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
170 2021-10-18 11:43:56.881306: 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: 8s -
   loss: 1.2441 - accuracy: 0.54372021-10-18 11:44:01.
   434983: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
step - loss: 1.2359 - accuracy: 0.5556
173 Accuracy: 0.5555555820465088
174 Loss: 1.2359036207199097
175 end
176
177 Process finished with exit code 0
178
```