- 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 2021-10-07 11:38:54.590615: 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 2021-10-07 11:38:54.591070: 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 2021-10-07 11:39:07.273171: W tensorflow/ stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror : nvcuda.dll not found
- 9 2021-10-07 11:39:07.273880: W tensorflow/ stream_executor/cuda/cuda_driver.cc:269] failed call to cuInit: UNKNOWN ERROR (303)
- 10 2021-10-07 11:39:07.289753: I tensorflow/ stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: D26265VWTB0E
- 11 2021-10-07 11:39:07.290340: I tensorflow/ stream_executor/cuda/cuda_diagnostics.cc:176] hostname: D26265VWTB0E
- 12 2021-10-07 11:39:07.290892: 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"	
	Layer (type) Param #	Output Shape
	rescaling (Rescaling)	
22) 0	
	random_flip (RandomFlip)) 0	
25	random_rotation (RandomRotat) 0	
	conv2d (Conv2D)) 1792	(None, 254, 254, 64
29	max_pooling2d (MaxPooling2D)) 0	
31	conv2d_1 (Conv2D)) 73856	(None, 125, 125, 128
33		
		(None, 60, 60, 256
	0011V2U_2 (0011V2D)	(110110, 00, 00, 200

```
295168
35 )
36 __
37 max_pooling2d_2 (MaxPooling2 (None, 30, 30, 256
38 _____
                   (None, 230400
39 flatten (Flatten)
40 _____
41 dense (Dense)
                         (None, 256
            58982656
42 ______
43 dense_1 (Dense)
                         (None, 128
          32896
44 _____
45 dense_2 (Dense)
                         (None, 6
                774
47 Total params: 59,387,142
48 Trainable params: 59,387,142
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 2021-10-07 11:39:10.623538: I tensorflow/compiler/
  mlir/mlir_graph_optimization_pass.cc:185] None of the
   MLIR Optimization Passes are enabled (registered 2)
   2/196 [.....] - ETA: 16:38
55
```

```
- loss: 4.0771 - accuracy: 0.28122021-10-07 11:39:21
  .756902: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
56
    4/196 [.....] - ETA: 17:22
   - loss: 3.3949 - accuracy: 0.19532021-10-07 11:39:32
  .973348: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
    5/196 [.....] - ETA: 17:36
57
   - loss: 3.0422 - accuracy: 0.24382021-10-07 11:39:38
  .884529: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
   13/196 [>.....] - ETA: 14:52
58
   - loss: 2.0980 - accuracy: 0.30532021-10-07 11:40:15
  .221694: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
59
  46/196 [=====>..... - ETA: 11:18
   - loss: 1.5932 - accuracy: 0.40012021-10-07 11:42:40
  .327550: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
60 47/196 [=====>.....] - ETA: 11:13
   - loss: 1.5930 - accuracy: 0.40032021-10-07 11:42:44
   .489102: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
61 56/196 [======>.....] - ETA: 10:29
   - loss: 1.5479 - accuracy: 0.41292021-10-07 11:43:23
  .884833: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
62 59/196 [=======>....] - ETA: 10:16
   - loss: 1.5377 - accuracy: 0.41152021-10-07 11:43:37
   .505024: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
63
  60/196 [=======>.....] - ETA: 10:11
   - loss: 1.5367 - accuracy: 0.41152021-10-07 11:43:41
  .895343: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
  65/196 [=======>....] - ETA: 9:48
64
   - loss: 1.5215 - accuracy: 0.41202021-10-07 11:44:03
   .917611: W tensorflow/core/lib/png/png_io.cc:88] PNG
  warning: iCCP: known incorrect sRGB profile
  73/196 [========>.....] - ETA: 9:09
65
   - loss: 1.5018 - accuracy: 0.41222021-10-07 11:44:38
```

```
65 .466635: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
66
   76/196 [=======>.....] - ETA: 8:54
   - loss: 1.4944 - accuracy: 0.41412021-10-07 11:44:
  51.086658: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
   82/196 [========>....] - ETA: 8:27
   - loss: 1.4836 - accuracy: 0.41502021-10-07 11:45:
  17.349997: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  87/196 [========>....] - ETA: 8:05
   - loss: 1.4761 - accuracy: 0.41562021-10-07 11:45:
  39.809603: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  92/196 [========>....] - ETA: 7:42
   - loss: 1.4687 - accuracy: 0.41582021-10-07 11:46:
  01.664294: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
  96/196 [=========>....] - ETA: 7:24
70
   - loss: 1.4633 - accuracy: 0.41892021-10-07 11:46:
  19.501846: W tensorflow/core/lib/png/png io.cc:881
  PNG warning: iCCP: known incorrect sRGB profile
71 109/196 [==========>.....] - ETA: 6:31
   - loss: 1.4501 - accuracy: 0.42952021-10-07 11:47:
  22.297022: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
72 118/196 [===========>....] - ETA: 5:54
   - loss: 1.4421 - accuracy: 0.42902021-10-07 11:48:
  07.632554: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
73 120/196 [===========>.....] - ETA: 5:45
   - loss: 1.4399 - accuracy: 0.43072021-10-07 11:48:
  16.953957: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
74 122/196 [==========>....] - ETA: 5:36
   - loss: 1.4382 - accuracy: 0.43162021-10-07 11:48:
  26.509277: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
75 2021-10-07 11:48:27.265410: W tensorflow/core/lib/
  png/png_io.cc:88] PNG warning: iCCP: known incorrect
   sRGB profile
```

```
76 127/196 [===========>....] - ETA: 5:14
   - loss: 1.4306 - accuracy: 0.43452021-10-07 11:48:
  51.410467: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
77 130/196 [============>....] - ETA: 5:01
   - loss: 1.4347 - accuracy: 0.43372021-10-07 11:49:
  05.631940: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
78 131/196 [============>....] - ETA: 4:57
   - loss: 1.4319 - accuracy: 0.43512021-10-07 11:49:
  10.934318: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
79 134/196 [==============>....] - ETA: 4:43
   - loss: 1.4301 - accuracy: 0.43542021-10-07 11:49:
  25.337782: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4283 - accuracy: 0.43572021-10-07 11:49:
  34.352927: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
81 2021-10-07 11:49:34.360541: W tensorflow/core/lib/
  pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
   sRGB profile
- loss: 1.4155 - accuracy: 0.43992021-10-07 11:51:
  01.426404: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4110 - accuracy: 0.43812021-10-07 11:51:
  53.761771: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4061 - accuracy: 0.44102021-10-07 11:52:
  23.616091: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
- loss: 1.4038 - accuracy: 0.44152021-10-07 11:52:
  32.768988: W tensorflow/core/lib/png/png_io.cc:88]
  PNG warning: iCCP: known incorrect sRGB profile
86 196/196 [=========== ] - ETA: Os
   - loss: 1.3927 - accuracy: 0.44502021-10-07 11:54:
```

```
86 14.429846: W tensorflow/core/lib/png/png_io.cc:88]
   PNG warning: iCCP: known incorrect sRGB profile
87 2021-10-07 11:54:14.715097: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
88 2021-10-07 11:54:17.454806: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
89 2021-10-07 11:54:42.881798: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
90 2021-10-07 11:54:43.964453: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
91 2021-10-07 11:54:57.954320: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
92 196/196 [============= ] - 967s 5s/
   step - loss: 1.3927 - accuracy: 0.4450 - val_loss: 1
   .3343 - val_accuracy: 0.3777
93 Epoch 2/20
step - loss: 1.3123 - accuracy: 0.4671 - val_loss: 1
   .3015 - val_accuracy: 0.4539
95 Epoch 3/20
96 196/196 [============== ] - 1031s 5s/
   step - loss: 1.2967 - accuracy: 0.4710 - val_loss: 1
   .2957 - val_accuracy: 0.4930
97 Epoch 4/20
98 196/196 [============= ] - 943s 5s/
   step - loss: 1.2915 - accuracy: 0.4710 - val_loss: 1
   .2615 - val_accuracy: 0.5032
99 Epoch 5/20
100 196/196 [============== ] - 944s 5s/
   step - loss: 1.2904 - accuracy: 0.4762 - val_loss: 1
   .2794 - val_accuracy: 0.4834
101 Epoch 6/20
step - loss: 1.2806 - accuracy: 0.4711 - val_loss: 1
   .2796 - val_accuracy: 0.4923
103 Epoch 7/20
```

```
104 196/196 [============== ] - 897s 5s/
  step - loss: 1.2767 - accuracy: 0.4758 - val_loss: 1
  .2715 - val_accuracy: 0.4808
105 Epoch 8/20
step - loss: 1.2704 - accuracy: 0.4850 - val_loss: 1
  .2464 - val_accuracy: 0.5026
107 Epoch 9/20
step - loss: 1.2690 - accuracy: 0.4809 - val_loss: 1
  .2511 - val_accuracy: 0.5006
109 Epoch 10/20
step - loss: 1.2654 - accuracy: 0.4818 - val_loss: 1
  .2546 - val_accuracy: 0.5045
111 Epoch 11/20
step - loss: 1.2606 - accuracy: 0.4831 - val_loss: 1
  .2579 - val_accuracy: 0.5000
113 Epoch 12/20
step - loss: 1.2605 - accuracy: 0.4831 - val_loss: 1
  .2397 - val accuracy: 0.5038
115 Epoch 13/20
step - loss: 1.2563 - accuracy: 0.4860 - val_loss: 1
  .2331 - val_accuracy: 0.5026
117 Epoch 14/20
step - loss: 1.2469 - accuracy: 0.4886 - val_loss: 1
  .2356 - val_accuracy: 0.5122
119 Epoch 15/20
step - loss: 1.2461 - accuracy: 0.4914 - val_loss: 1
  .2347 - val_accuracy: 0.5102
121 Epoch 16/20
step - loss: 1.2429 - accuracy: 0.4922 - val_loss: 1
  .2352 - val_accuracy: 0.5032
123 Epoch 17/20
```

```
124 step - loss: 1.2349 - accuracy: 0.4956 - val_loss: 1
   .2240 - val_accuracy: 0.5160
125 Epoch 18/20
126 196/196 [============= ] - 873s 4s/
   step - loss: 1.2339 - accuracy: 0.4983 - val_loss: 1
   .2599 - val_accuracy: 0.4872
127 Epoch 19/20
step - loss: 1.2290 - accuracy: 0.5044 - val_loss: 1
   .2333 - val_accuracy: 0.4981
129 Epoch 20/20
130 196/196 [============= ] - 875s 4s/
   step - loss: 1.2236 - accuracy: 0.5087 - val_loss: 1
    .2252 - val_accuracy: 0.5064
131 2021-10-07 16:41:53.402509: W tensorflow/core/lib/
   pnq/pnq_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
132 1/27 [>.....] - ETA: 1:07
    - loss: 1.0135 - accuracy: 0.59382021-10-07 16:41:
   55.207814: W tensorflow/core/lib/png/png_io.cc:88]
   PNG warning: iCCP: known incorrect sRGB profile
   8/27 [======>....] - ETA: 23s -
   loss: 1.2326 - accuracy: 0.53522021-10-07 16:42:03.
   570756: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
134 2021-10-07 16:42:03.650616: W tensorflow/core/lib/
   png/png_io.cc:88] PNG warning: iCCP: known incorrect
    sRGB profile
135 2021-10-07 16:42:03.680211: 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 2021-10-07 16:42:03.680622: 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 2021-10-07 16:42:03.681000: 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 2021-10-07 16:42:03.681383: 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 2021-10-07 16:42:03.681750: 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 2021-10-07 16:42:03.682211: 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 2021-10-07 16:42:03.682677: 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 2021-10-07 16:42:03.683048: 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 2021-10-07 16:42:03.683426: 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 2021-10-07 16:42:03.683797: 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 2021-10-07 16:42:03.684179: 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 2021-10-07 16:42:03.684549: 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 2021-10-07 16:42:03.684923: 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 2021-10-07 16:42:03.685297: 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 2021-10-07 16:42:03.685675: 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 2021-10-07 16:42:03.686050: 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: 14s -
   loss: 1.2624 - accuracy: 0.53122021-10-07 16:42:12.
   417428: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
- loss: 1.2603 - accuracy: 0.5347
153 Accuracy: 0.5347222089767456
154 Loss: 1.2602734565734863
155 end
156
157 Process finished with exit code 0
158
```