```
 1 C:\Users\jdeag\Desktop\project\ArtificialIntel\BuildingIdentifier\venv\
   Scripts\python.exe C:/Users/jdeag/Desktop/project/ArtificialIntel/
   BuildingIdentifier/ImageAnnotation/KerasTunerDeagan.py
 2 2021-09-29 08:53:05.487198: 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 2021-09-29 08:53:05.488859: 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.
 4 THIS IS THE PROPER KERAS TUNER
   //////////////////////////////////////////////////////////////////////
   //////////////////////////////////////////////////////////////////////
   ////////////////
 5 2.6.0
 6 Found 7811 files belonging to 6 classes.
 7 Using 6249 files for training.
 8 2021-09-29 08:53:16.921547: W tensorflow/stream_executor/platform/default
   /dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll';
   dlerror: cudart64_110.dll not found
 9 2021-09-29 08:53:16.922514: W tensorflow/stream_executor/platform/default
   /dso_loader.cc:64] Could not load dynamic library 'cublas64_11.dll';
   dlerror: cublas64_11.dll not found
10 2021-09-29 08:53:16.923463: W tensorflow/stream_executor/platform/default
   /dso_loader.cc:64] Could not load dynamic library 'cublasLt64_11.dll';
   dlerror: cublasLt64_11.dll not found
11 2021-09-29 08:53:16.924410: W tensorflow/stream_executor/platform/default
   /dso_loader.cc:64] Could not load dynamic library 'cufft64_10.dll';
   dlerror: cufft64_10.dll not found
12 2021-09-29 08:53:16.925343: W tensorflow/stream_executor/platform/default
   /dso_loader.cc:64] Could not load dynamic library 'curand64_10.dll';
   dlerror: curand64_10.dll not found
13 2021-09-29 08:53:16.926288: W tensorflow/stream_executor/platform/default
   /dso_loader.cc:64] Could not load dynamic library 'cusolver64_11.dll';
   dlerror: cusolver64_11.dll not found
14 2021-09-29 08:53:16.927234: W tensorflow/stream_executor/platform/default
   /dso_loader.cc:64] Could not load dynamic library 'cusparse64_11.dll';
   dlerror: cusparse64_11.dll not found
15 2021-09-29 08:53:16.928175: W tensorflow/stream_executor/platform/default
   /dso_loader.cc:64] Could not load dynamic library 'cudnn64_8.dll';
   dlerror: cudnn64_8.dll not found
16 2021-09-29 08:53:16.928355: W tensorflow/core/common_runtime/gpu/
   gpu_device.cc:1835] Cannot dlopen some GPU libraries. Please make sure
   the missing libraries mentioned above are installed properly if you would
    like to use GPU. Follow the guide at https://www.tensorflow.org/install/
   gpu for how to download and setup the required libraries for your
   platform.
17 Skipping registering GPU devices...
18 2021-09-29 08:53:16.931316: 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
19 To enable them in other operations, rebuild TensorFlow with the
   appropriate compiler flags.
20 Found 7811 files belonging to 6 classes.
21 Using 1562 files for validation.
22 Found 864 files belonging to 6 classes.
23 Model: "sequential"
```

```
24  _____
25  Layer (type)              Output Shape              Param #
26  ================================================================
27  rescaling (Rescaling)     (None, 256, 256, 3)       0
28  _____
29  random_flip (RandomFlip)  (None, 256, 256, 3)       0
30  _____
31  random_rotation (RandomRotat (None, 256, 256, 3)    0
32  _____
33  conv2d (Conv2D)           (None, 254, 254, 32)      896
34  _____
35  max_pooling2d (MaxPooling2D) (None, 127, 127, 32)   0
36  _____
37  conv2d_1 (Conv2D)         (None, 125, 125, 64)      18496
38  _____
39  max_pooling2d_1 (MaxPooling2 (None, 62, 62, 64)     0
40  _____
41  conv2d_2 (Conv2D)         (None, 60, 60, 128)       73856
42  _____
43  max_pooling2d_2 (MaxPooling2 (None, 30, 30, 128)    0
44  _____
45  conv2d_3 (Conv2D)         (None, 28, 28, 256)       295168
46  _____
47  max_pooling2d_3 (MaxPooling2 (None, 14, 14, 256)    0
48  _____
49  flatten (Flatten)         (None, 50176)             0
50  _____
51  dense (Dense)             (None, 256)               12845312
52  _____
53  dense_1 (Dense)           (None, 128)               32896
54  _____
55  dense_2 (Dense)           (None, 6)                 774
56  ================================================================
57  Total params: 13,267,398
58  Trainable params: 13,267,398
59  Non-trainable params: 0
60  _____
61  Epoch 1/10
62  C:\Users\jdeag\Desktop\project\ArtificialIntel\BuildingIdentifier\venv\
    lib\site-packages\keras\backend.py:4906: 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?"
63    warnings.warn(
64  2021-09-29 08:53:18.129198: I tensorflow/compiler/mlir/
    mlir_graph_optimization_pass.cc:185] None of the MLIR Optimization Passes
     are enabled (registered 2)
65  2021-09-29 08:53:19.220243: W tensorflow/core/framework/
    cpu_allocator_impl.cc:80] Allocation of 264257536 exceeds 10% of free
    system memory.
66  2021-09-29 08:53:20.951800: W tensorflow/core/framework/
    cpu_allocator_impl.cc:80] Allocation of 264257536 exceeds 10% of free
    system memory.
67    1/196 [..............................] - ETA: 13:35 - loss: 1.7837 -
    accuracy: 0.18752021-09-29 08:53:21.952613: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
68  2021-09-29 08:53:21.983727: W tensorflow/core/framework/
```

```
68  cpu_allocator_impl.cc:80] Allocation of 264257536 exceeds 10% of free
    system memory.
69  2021-09-29 08:53:23.360430: W tensorflow/core/framework/
    cpu_allocator_impl.cc:80] Allocation of 264257536 exceeds 10% of free
    system memory.
70    2/196 [..............................] - ETA: 6:36 - loss: 2.4792 -
    accuracy: 0.3438 2021-09-29 08:53:24.013374: W tensorflow/core/framework
    /cpu_allocator_impl.cc:80] Allocation of 264257536 exceeds 10% of free
    system memory.
71    4/196 [..............................] - ETA: 7:01 - loss: 2.0491 -
    accuracy: 0.30472021-09-29 08:53:28.537090: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
72    5/196 [..............................] - ETA: 6:52 - loss: 1.9623 -
    accuracy: 0.33752021-09-29 08:53:30.558669: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
73   13/196 [>.............................] - ETA: 6:03 - loss: 1.6739 -
    accuracy: 0.36542021-09-29 08:53:45.820469: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
74   46/196 [======>.......................] - ETA: 4:47 - loss: 1.4746 -
    accuracy: 0.42462021-09-29 08:54:48.098719: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
75  2021-09-29 08:54:48.234377: W tensorflow/core/lib/png/png_io.cc:88] PNG
    warning: iCCP: known incorrect sRGB profile
76   56/196 [=======>......................] - ETA: 4:28 - loss: 1.4524 -
    accuracy: 0.43302021-09-29 08:55:07.324685: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
77   58/196 [=======>......................] - ETA: 4:24 - loss: 1.4485 -
    accuracy: 0.43212021-09-29 08:55:11.276168: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
78   60/196 [========>.....................] - ETA: 4:20 - loss: 1.4499 -
    accuracy: 0.43282021-09-29 08:55:15.027366: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
79   65/196 [========>.....................] - ETA: 4:11 - loss: 1.4410 -
    accuracy: 0.43172021-09-29 08:55:24.568214: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
80   73/196 [==========>...................] - ETA: 3:55 - loss: 1.4338 -
    accuracy: 0.43022021-09-29 08:55:39.765419: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
81   76/196 [==========>...................] - ETA: 3:49 - loss: 1.4287 -
    accuracy: 0.43132021-09-29 08:55:45.336541: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
82   82/196 [===========>..................] - ETA: 3:37 - loss: 1.4239 -
    accuracy: 0.43102021-09-29 08:55:56.461491: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
83   87/196 [===========>..................] - ETA: 3:27 - loss: 1.4204 -
    accuracy: 0.42852021-09-29 08:56:05.984606: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
84   92/196 [============>.................] - ETA: 3:18 - loss: 1.4157 -
    accuracy: 0.43042021-09-29 08:56:16.151647: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
85   96/196 [=============>................] - ETA: 3:10 - loss: 1.4137 -
    accuracy: 0.43292021-09-29 08:56:24.142859: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
86  110/196 [===============>..............] - ETA: 2:44 - loss: 1.4057 -
    accuracy: 0.44202021-09-29 08:56:59.612524: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
87  114/196 [=================>............] - ETA: 2:44 - loss: 1.4026 -
```

```
 87    accuracy: 0.44242021-09-29 08:57:09.290779: W tensorflow/core/lib/png/
       png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 88  115/196 [================>.............] - ETA: 2:42 - loss: 1.4028 -
       accuracy: 0.44242021-09-29 08:57:10.789256: W tensorflow/core/lib/png/
       png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 89  118/196 [=================>...........] - ETA: 2:35 - loss: 1.4030 -
       accuracy: 0.44072021-09-29 08:57:16.084051: W tensorflow/core/lib/png/
       png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 90  2021-09-29 08:57:16.118351: W tensorflow/core/lib/png/png_io.cc:88] PNG
       warning: iCCP: known incorrect sRGB profile
 91  123/196 [=================>...........] - ETA: 2:26 - loss: 1.4013 -
       accuracy: 0.44232021-09-29 08:57:26.473499: W tensorflow/core/lib/png/
       png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 92  126/196 [==================>..........] - ETA: 2:20 - loss: 1.3962 -
       accuracy: 0.44442021-09-29 08:57:32.941949: W tensorflow/core/lib/png/
       png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 93  127/196 [==================>..........] - ETA: 2:18 - loss: 1.3952 -
       accuracy: 0.44492021-09-29 08:57:34.735899: W tensorflow/core/lib/png/
       png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 94  130/196 [==================>..........] - ETA: 2:12 - loss: 1.4001 -
       accuracy: 0.44452021-09-29 08:57:41.528206: W tensorflow/core/lib/png/
       png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 95  131/196 [===================>.........] - ETA: 2:10 - loss: 1.3969 -
       accuracy: 0.44582021-09-29 08:57:43.379085: W tensorflow/core/lib/png/
       png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 96  2021-09-29 08:57:43.548498: W tensorflow/core/lib/png/png_io.cc:88] PNG
       warning: iCCP: known incorrect sRGB profile
 97  150/196 [=====================>........] - ETA: 1:31 - loss: 1.3872 -
       accuracy: 0.44942021-09-29 08:58:19.062917: W tensorflow/core/lib/png/
       png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 98  162/196 [=======================>......] - ETA: 1:07 - loss: 1.3882 -
       accuracy: 0.44712021-09-29 08:58:41.546019: W tensorflow/core/lib/png/
       png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 99  168/196 [========================>.....] - ETA: 55s - loss: 1.3868 -
       accuracy: 0.44792021-09-29 08:58:52.995965: W tensorflow/core/lib/png/
       png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
100  170/196 [========================>....] - ETA: 51s - loss: 1.3847 -
       accuracy: 0.44892021-09-29 08:58:56.188749: W tensorflow/core/lib/png/
       png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
101  196/196 [=============================] - ETA: 0s - loss: 1.3773 -
       accuracy: 0.44902021-09-29 09:00:08.678700: W tensorflow/core/lib/png/
       png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
102  2021-09-29 09:00:08.965677: W tensorflow/core/lib/png/png_io.cc:88] PNG
       warning: iCCP: known incorrect sRGB profile
103  2021-09-29 09:00:09.692318: W tensorflow/core/lib/png/png_io.cc:88] PNG
       warning: iCCP: known incorrect sRGB profile
104  2021-09-29 09:00:19.430165: W tensorflow/core/lib/png/png_io.cc:88] PNG
       warning: iCCP: known incorrect sRGB profile
105  2021-09-29 09:00:19.749270: W tensorflow/core/lib/png/png_io.cc:88] PNG
       warning: iCCP: known incorrect sRGB profile
106  2021-09-29 09:00:26.405531: W tensorflow/core/lib/png/png_io.cc:88] PNG
       warning: iCCP: known incorrect sRGB profile
107  196/196 [=============================] - 435s 2s/step - loss: 1.3773
       - accuracy: 0.4490 - val_loss: 1.3049 - val_accuracy: 0.4795
108  Epoch 2/10
109  196/196 [=============================] - 622s 3s/step - loss: 1.3399
       - accuracy: 0.4511 - val_loss: 1.3216 - val_accuracy: 0.4795
```

```
110 Epoch 3/10
111 196/196 [==============================] - 1008s 5s/step - loss: 1.3294
      - accuracy: 0.4521 - val_loss: 1.3172 - val_accuracy: 0.4795
112 Epoch 4/10
113 196/196 [==============================] - 943s 5s/step - loss: 1.3273
      - accuracy: 0.4519 - val_loss: 1.3174 - val_accuracy: 0.4776
114 Epoch 5/10
115 196/196 [==============================] - 759s 4s/step - loss: 1.3206
      - accuracy: 0.4534 - val_loss: 1.3096 - val_accuracy: 0.4782
116 Epoch 6/10
117 196/196 [==============================] - 944s 5s/step - loss: 1.3155
      - accuracy: 0.4551 - val_loss: 1.3187 - val_accuracy: 0.4808
118 Epoch 7/10
119 196/196 [==============================] - 822s 4s/step - loss: 1.3118
      - accuracy: 0.4609 - val_loss: 1.2801 - val_accuracy: 0.4846
120 Epoch 8/10
121 196/196 [==============================] - 645s 3s/step - loss: 1.3067
      - accuracy: 0.4665 - val_loss: 1.2869 - val_accuracy: 0.4936
122 Epoch 9/10
123 196/196 [==============================] - 702s 4s/step - loss: 1.2985
      - accuracy: 0.4735 - val_loss: 1.2685 - val_accuracy: 0.4936
124 Epoch 10/10
125 196/196 [==============================] - 641s 3s/step - loss: 1.2932
      - accuracy: 0.4735 - val_loss: 1.2586 - val_accuracy: 0.4898
126 2021-09-29 10:59:51.892520: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
    while): 1 of 256
127 2021-09-29 10:59:52.184235: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
    while): 2 of 256
128 2021-09-29 10:59:56.008496: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
    while): 24 of 256
129 2021-09-29 11:00:06.122865: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
    while): 72 of 256
130 2021-09-29 11:00:15.738374: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
    while): 122 of 256
131 2021-09-29 11:00:25.622664: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
    while): 196 of 256
132 2021-09-29 11:00:25.752394: W tensorflow/core/lib/png/png_io.cc:88] PNG
    warning: iCCP: known incorrect sRGB profile
133 2021-09-29 11:00:33.631055: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:228] Shuffle buffer filled.
134  2/27 [=>............................] - ETA: 1:50 - loss: 1.3140 -
    accuracy: 0.5938 2021-09-29 11:00:46.685551: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
135  9/27 [=========>...................] - ETA: 1:12 - loss: 1.2799 -
    accuracy: 0.52432021-09-29 11:01:19.688072: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
136 10/27 [==========>..................] - ETA: 1:20 - loss: 1.2810 -
    accuracy: 0.52502021-09-29 11:01:31.254196: 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
137 2021-09-29 11:01:31.254950: W tensorflow/core/lib/png/png_io.cc:88] PNG
```

137 warning: iCCP: profile 'ICC Profile': 'wtpt': ICC profile tag start not
    a multiple of 4
138 2021-09-29 11:01:31.377988: 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
139 2021-09-29 11:01:31.378999: 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
140 2021-09-29 11:01:31.380003: 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
141 2021-09-29 11:01:31.381018: 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
142 2021-09-29 11:01:31.382238: 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
143 2021-09-29 11:01:31.382695: 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
144 2021-09-29 11:01:31.382899: 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
145 2021-09-29 11:01:31.383056: 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
146 2021-09-29 11:01:31.436911: 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
147 2021-09-29 11:01:31.437136: 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
148 2021-09-29 11:01:31.437964: 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
149 2021-09-29 11:01:31.463236: 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
150 2021-09-29 11:01:31.463667: W tensorflow/core/lib/png/png_io.cc:88] PNG
    warning: iCCP: profile 'ICC Profile': 'gTRC': ICC profile tag start not
    a multiple of 4
151 2021-09-29 11:01:31.479551: 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
152 2021-09-29 11:01:31.480326: W tensorflow/core/lib/png/png_io.cc:88] PNG
    warning: iCCP: known incorrect sRGB profile
153 17/27 [=================>............] - ETA: 54s - loss: 1.2917 -
    accuracy: 0.51472021-09-29 11:02:03.960693: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
154 27/27 [============================] - 181s 4s/step - loss: 1.3000 -
    accuracy: 0.5069
155 Accuracy: 0.5069444179534912
156 Loss: 1.2999722957611084
157 end
158
159 Process finished with exit code 0
160