```
 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 15:30:54.315748: 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 15:30:54.316089: 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 15:31:11.016201: 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 15:31:11.017168: 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 15:31:11.018074: 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 15:31:11.018985: 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 15:31:11.019952: 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 15:31:11.020862: 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 15:31:11.021811: 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 15:31:11.022759: 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 15:31:11.037851: 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 15:31:11.039268: 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  conv2d_2 (Conv2D)            (None, 123, 123, 64)      36928
40  _____
41  max_pooling2d_1 (MaxPooling2 (None, 61, 61, 64)        0
42  _____
43  conv2d_3 (Conv2D)            (None, 59, 59, 128)       73856
44  _____
45  max_pooling2d_2 (MaxPooling2 (None, 29, 29, 128)       0
46  _____
47  flatten (Flatten)            (None, 107648)            0
48  _____
49  dense (Dense)                (None, 256)               27558144
50  _____
51  dense_1 (Dense)              (None, 128)               32896
52  _____
53  dense_2 (Dense)              (None, 6)                 774
54  =================================================================
55  Total params: 27,721,990
56  Trainable params: 27,721,990
57  Non-trainable params: 0
58  _____
59  Epoch 1/10
60  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?"
61    warnings.warn(
62  2021-09-29 15:31:12.204377: I tensorflow/compiler/mlir/
    mlir_graph_optimization_pass.cc:185] None of the MLIR Optimization Passes
     are enabled (registered 2)
63    1/196 [..........................] - ETA: 16:26 - loss: 1.7839 -
    accuracy: 0.15622021-09-29 15:31:17.264771: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
64    4/196 [..........................] - ETA: 7:55 - loss: 2.3813 -
    accuracy: 0.21882021-09-29 15:31:24.395216: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
65    5/196 [..........................] - ETA: 7:50 - loss: 2.1922 -
    accuracy: 0.26882021-09-29 15:31:26.811615: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
66   13/196 [>.........................] - ETA: 7:34 - loss: 1.7146 -
    accuracy: 0.35822021-09-29 15:31:46.697683: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
```

```
67   46/196 [======>......................] - ETA: 6:12 - loss: 1.4856 -
     accuracy: 0.42262021-09-29 15:33:08.660678: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
68 2021-09-29 15:33:08.877881: W tensorflow/core/lib/png/png_io.cc:88] PNG
     warning: iCCP: known incorrect sRGB profile
69   56/196 [=======>......................] - ETA: 5:48 - loss: 1.4603 -
     accuracy: 0.43142021-09-29 15:33:33.579952: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
70   58/196 [=======>......................] - ETA: 5:43 - loss: 1.4568 -
     accuracy: 0.43052021-09-29 15:33:38.727207: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
71   60/196 [========>......................] - ETA: 5:38 - loss: 1.4559 -
     accuracy: 0.43132021-09-29 15:33:43.560068: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
72   65/196 [========>......................] - ETA: 5:25 - loss: 1.4475 -
     accuracy: 0.43032021-09-29 15:33:55.950280: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
73   73/196 [==========>...................] - ETA: 5:05 - loss: 1.4395 -
     accuracy: 0.42892021-09-29 15:34:15.842271: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
74   76/196 [==========>...................] - ETA: 4:58 - loss: 1.4343 -
     accuracy: 0.43012021-09-29 15:34:23.772453: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
75   82/196 [===========>..................] - ETA: 4:44 - loss: 1.4282 -
     accuracy: 0.42992021-09-29 15:34:38.973638: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
76   87/196 [============>..................] - ETA: 4:32 - loss: 1.4253 -
     accuracy: 0.42742021-09-29 15:34:51.538802: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
77   92/196 [=============>.................] - ETA: 4:19 - loss: 1.4203 -
     accuracy: 0.42932021-09-29 15:35:04.061082: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
78   96/196 [=============>.................] - ETA: 4:09 - loss: 1.4183 -
     accuracy: 0.43202021-09-29 15:35:13.943634: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
79  109/196 [================>..............] - ETA: 3:37 - loss: 1.4109 -
     accuracy: 0.44092021-09-29 15:35:46.392328: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
80  117/196 [=================>.............] - ETA: 3:17 - loss: 1.4078 -
     accuracy: 0.44102021-09-29 15:36:07.289718: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
81  119/196 [=================>.............] - ETA: 3:12 - loss: 1.4087 -
     accuracy: 0.43992021-09-29 15:36:12.410131: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
82  122/196 [==================>............] - ETA: 3:05 - loss: 1.4048 -
     accuracy: 0.44192021-09-29 15:36:19.954354: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
83 2021-09-29 15:36:20.099341: W tensorflow/core/lib/png/png_io.cc:88] PNG
     warning: iCCP: known incorrect sRGB profile
84  127/196 [===================>...........] - ETA: 2:52 - loss: 1.3991 -
     accuracy: 0.44412021-09-29 15:36:32.524343: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
85  130/196 [===================>...........] - ETA: 2:45 - loss: 1.4038 -
     accuracy: 0.44372021-09-29 15:36:39.935751: W tensorflow/core/lib/png/
     png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
86  131/196 [===================>...........] - ETA: 2:42 - loss: 1.4010 -
     accuracy: 0.44512021-09-29 15:36:42.534190: W tensorflow/core/lib/png/
```

```
 86 png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 87 134/196 [===================>..........] - ETA: 2:35 - loss: 1.4003 -
    accuracy: 0.44542021-09-29 15:36:50.241762: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 88 135/196 [===================>..........] - ETA: 2:32 - loss: 1.3994 -
    accuracy: 0.44562021-09-29 15:36:53.059568: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 89 2021-09-29 15:36:53.091418: W tensorflow/core/lib/png/png_io.cc:88] PNG
    warning: iCCP: known incorrect sRGB profile
 90 154/196 [=======================>.......] - ETA: 1:45 - loss: 1.3908 -
    accuracy: 0.44932021-09-29 15:37:41.068851: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 91 166/196 [========================>.....] - ETA: 1:15 - loss: 1.3901 -
    accuracy: 0.44692021-09-29 15:38:11.923896: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 92 172/196 [=========================>....] - ETA: 1:00 - loss: 1.3866 -
    accuracy: 0.44932021-09-29 15:38:27.030650: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 93 174/196 [=========================>....] - ETA: 55s - loss: 1.3848 -
    accuracy: 0.44972021-09-29 15:38:32.018469: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 94 196/196 [==============================] - ETA: 0s - loss: 1.3803 -
    accuracy: 0.44862021-09-29 15:39:31.347145: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
 95 2021-09-29 15:39:31.969190: W tensorflow/core/lib/png/png_io.cc:88] PNG
    warning: iCCP: known incorrect sRGB profile
 96 2021-09-29 15:39:33.007963: W tensorflow/core/lib/png/png_io.cc:88] PNG
    warning: iCCP: known incorrect sRGB profile
 97 2021-09-29 15:39:43.647654: W tensorflow/core/lib/png/png_io.cc:88] PNG
    warning: iCCP: known incorrect sRGB profile
 98 2021-09-29 15:39:44.127748: W tensorflow/core/lib/png/png_io.cc:88] PNG
    warning: iCCP: known incorrect sRGB profile
 99 2021-09-29 15:39:50.714382: W tensorflow/core/lib/png/png_io.cc:88] PNG
    warning: iCCP: known incorrect sRGB profile
100 196/196 [==============================] - 526s 3s/step - loss: 1.3803
      - accuracy: 0.4486 - val_loss: 1.3096 - val_accuracy: 0.4795
101 Epoch 2/10
102 196/196 [==============================] - 604s 3s/step - loss: 1.3447
      - accuracy: 0.4545 - val_loss: 1.3026 - val_accuracy: 0.4795
103 Epoch 3/10
104 196/196 [==============================] - 765s 4s/step - loss: 1.3361
      - accuracy: 0.4537 - val_loss: 1.3101 - val_accuracy: 0.4795
105 Epoch 4/10
106 196/196 [==============================] - 622s 3s/step - loss: 1.3231
      - accuracy: 0.4538 - val_loss: 1.2852 - val_accuracy: 0.4795
107 Epoch 5/10
108 196/196 [==============================] - 612s 3s/step - loss: 1.3206
      - accuracy: 0.4540 - val_loss: 1.2968 - val_accuracy: 0.4795
109 Epoch 6/10
110 196/196 [==============================] - 628s 3s/step - loss: 1.3142
      - accuracy: 0.4519 - val_loss: 1.2965 - val_accuracy: 0.4821
111 Epoch 7/10
112 196/196 [==============================] - 600s 3s/step - loss: 1.3071
      - accuracy: 0.4553 - val_loss: 1.2863 - val_accuracy: 0.4891
113 Epoch 8/10
114 196/196 [==============================] - 603s 3s/step - loss: 1.3116
      - accuracy: 0.4618 - val_loss: 1.3111 - val_accuracy: 0.4763
```

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115  Epoch 9/10
116  196/196 [==============================] - 630s 3s/step - loss: 1.3013
        - accuracy: 0.4657 - val_loss: 1.2752 - val_accuracy: 0.4891
117  Epoch 10/10
118  196/196 [==============================] - 632s 3s/step - loss: 1.2960
        - accuracy: 0.4697 - val_loss: 1.2939 - val_accuracy: 0.4782
119  2021-09-29 17:15:16.357051: I tensorflow/core/kernels/data/
        shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
        while): 172 of 256
120  2021-09-29 17:15:16.698694: W tensorflow/core/lib/png/png_io.cc:88] PNG
        warning: iCCP: known incorrect sRGB profile
121  2021-09-29 17:15:18.111019: I tensorflow/core/kernels/data/
        shuffle_dataset_op.cc:228] Shuffle buffer filled.
122   2/27 [=>............................] - ETA: 11s - loss: 1.3487 -
        accuracy: 0.5625 2021-09-29 17:15:20.092160: W tensorflow/core/lib/png/
        png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
123   7/27 [======>.......................] - ETA: 13s - loss: 1.3015 -
        accuracy: 0.52232021-09-29 17:15:23.386432: W tensorflow/core/lib/png/
        png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
124   8/27 [=======>......................] - ETA: 12s - loss: 1.2885 -
        accuracy: 0.51562021-09-29 17:15:23.653474: W tensorflow/core/lib/png/
        png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
125  2021-09-29 17:15:23.670836: 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
126  2021-09-29 17:15:23.696353: 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
127  2021-09-29 17:15:23.696846: 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
128  2021-09-29 17:15:23.697201: 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
129  2021-09-29 17:15:23.697543: 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
130  2021-09-29 17:15:23.697925: 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
131  2021-09-29 17:15:23.698326: 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
132  2021-09-29 17:15:23.698724: 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
133  2021-09-29 17:15:23.699112: 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
134  2021-09-29 17:15:23.699462: 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
135  2021-09-29 17:15:23.699811: 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
136  2021-09-29 17:15:23.700160: W tensorflow/core/lib/png/png_io.cc:88] PNG
        warning: iCCP: profile 'ICC Profile': 'meas': ICC profile tag start not
```

```
136 a multiple of 4
137 2021-09-29 17:15:23.700510: 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
138 2021-09-29 17:15:23.700877: 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
139 2021-09-29 17:15:23.701275: 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
140 2021-09-29 17:15:23.701669: 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
141 16/27 [=================>.............] - ETA: 9s - loss: 1.3217 -
    accuracy: 0.50002021-09-29 17:15:34.870438: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
142 27/27 [==============================] - 41s 1s/step - loss: 1.3434 -
    accuracy: 0.5012
143 Accuracy: 0.5011574029922485
144 Loss: 1.3433897495269775
145 end
146
147 Process finished with exit code 0
148
```