

```
1 C:\Users\jdeag\Desktop\project\ArtificialIntel\BuildingIdentifier\venv\
Scripts\python.exe C:/Users/jdeag/Desktop/project/ArtificialIntel/
BuildingIdentifier/ImageAnnotation/KerasTunerDeagan.py
2 2021-10-04 09:26:24.649004: 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 2021-10-04 09:26:24.650368: 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 2021-10-04 09:26:41.106893: 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 2021-10-04 09:26:41.107876: 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 2021-10-04 09:26:41.108851: 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 2021-10-04 09:26:41.109802: 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 2021-10-04 09:26:41.110749: 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 2021-10-04 09:26:41.111695: 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 2021-10-04 09:26:41.112648: 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 2021-10-04 09:26:41.113595: 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 2021-10-04 09:26:41.113784: 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 2021-10-04 09:26:41.119464: 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 2021-10-04 09:26:41.706120: W tensorflow/core/framework/
```

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23 cpu_allocator_impl.cc:80] Allocation of 235929600 exceeds 10% of free
  system memory.
24 2021-10-04 09:26:41.909541: W tensorflow/core/framework/
  cpu_allocator_impl.cc:80] Allocation of 235929600 exceeds 10% of free
  system memory.
25 2021-10-04 09:26:41.985075: W tensorflow/core/framework/
  cpu_allocator_impl.cc:80] Allocation of 235929600 exceeds 10% of free
  system memory.
26 Model: "sequential"
27 -----
28 Layer (type)                Output Shape                Param #
29 =====
30 rescaling (Rescaling)       (None, 256, 256, 3)        0
31 -----
32 random_flip (RandomFlip)    (None, 256, 256, 3)        0
33 -----
34 random_rotation (RandomRotat (None, 256, 256, 3)        0
35 -----
36 conv2d (Conv2D)             (None, 254, 254, 64)       1792
37 -----
38 max_pooling2d (MaxPooling2D) (None, 127, 127, 64)        0
39 -----
40 conv2d_1 (Conv2D)           (None, 125, 125, 128)      73856
41 -----
42 max_pooling2d_1 (MaxPooling2 (None, 62, 62, 128)        0
43 -----
44 conv2d_2 (Conv2D)           (None, 60, 60, 256)       295168
45 -----
46 max_pooling2d_2 (MaxPooling2 (None, 30, 30, 256)        0
47 -----
48 flatten (Flatten)           (None, 230400)             0
49 -----
50 dense (Dense)               (None, 256)                58982656
51 -----
52 dense_1 (Dense)             (None, 6)                  1542
53 =====
54 Total params: 59,355,014
55 Trainable params: 59,355,014
56 Non-trainable params: 0
57 -----
58 Epoch 1/10
59 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?"
60 warnings.warn(
61 2021-10-04 09:26:42.388894: W tensorflow/core/framework/
  cpu_allocator_impl.cc:80] Allocation of 235929600 exceeds 10% of free
  system memory.
62 2021-10-04 09:26:42.432015: W tensorflow/core/framework/
  cpu_allocator_impl.cc:80] Allocation of 235929600 exceeds 10% of free
  system memory.
63 2021-10-04 09:26:42.707520: I tensorflow/compiler/mlir/
  mlir_graph_optimization_pass.cc:185] None of the MLIR Optimization Passes
  are enabled (registered 2)
64 1/196 [.....] - ETA: 20:58 - loss: 1.7917 -
```

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64 accuracy: 0.15622021-10-04 09:26:49.005659: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
65 4/196 [.....] - ETA: 13:11 - loss: 8.4591 -
accuracy: 0.2188 2021-10-04 09:27:01.131690: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
66 5/196 [.....] - ETA: 13:06 - loss: 7.0682 -
accuracy: 0.22502021-10-04 09:27:05.336078: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
67 13/196 [>.....] - ETA: 12:09 - loss: 3.6213 -
accuracy: 0.30772021-10-04 09:27:36.631924: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
68 46/196 [=====>.....] - ETA: 9:48 - loss: 2.0264 -
accuracy: 0.40562021-10-04 09:29:45.695259: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
69 2021-10-04 09:29:46.029398: W tensorflow/core/lib/png/png_io.cc:88] PNG
warning: iCCP: known incorrect sRGB profile
70 56/196 [=====>.....] - ETA: 9:09 - loss: 1.9038 -
accuracy: 0.41742021-10-04 09:30:24.515100: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
71 58/196 [=====>.....] - ETA: 9:01 - loss: 1.8843 -
accuracy: 0.41702021-10-04 09:30:34.034928: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
72 60/196 [=====>.....] - ETA: 8:53 - loss: 1.8691 -
accuracy: 0.41822021-10-04 09:30:40.671691: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
73 65/196 [=====>.....] - ETA: 8:33 - loss: 1.8281 -
accuracy: 0.41872021-10-04 09:30:59.819510: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
74 74/196 [=====>.....] - ETA: 7:58 - loss: 1.7719 -
accuracy: 0.41932021-10-04 09:31:35.589288: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
75 75/196 [=====>.....] - ETA: 7:54 - loss: 1.7638 -
accuracy: 0.42172021-10-04 09:31:41.456754: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
76 82/196 [=====>.....] - ETA: 7:26 - loss: 1.7279 -
accuracy: 0.42262021-10-04 09:32:07.321814: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
77 86/196 [=====>.....] - ETA: 7:11 - loss: 1.7076 -
accuracy: 0.42152021-10-04 09:32:24.632396: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
78 90/196 [=====>.....] - ETA: 6:55 - loss: 1.6962 -
accuracy: 0.41742021-10-04 09:32:38.415246: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
79 97/196 [=====>.....] - ETA: 6:27 - loss: 1.6706 -
accuracy: 0.41882021-10-04 09:33:05.366148: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
80 103/196 [=====>.....] - ETA: 6:04 - loss: 1.6547 -
accuracy: 0.42202021-10-04 09:33:30.089945: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
81 118/196 [=====>.....] - ETA: 5:06 - loss: 1.6137 -
accuracy: 0.42852021-10-04 09:34:31.126601: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
82 119/196 [=====>.....] - ETA: 5:02 - loss: 1.6122 -
accuracy: 0.42862021-10-04 09:34:34.964180: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
83 120/196 [=====>.....] - ETA: 4:58 - loss: 1.6080 -
accuracy: 0.43022021-10-04 09:34:37.692519: W tensorflow/core/lib/png/
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83 png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
84 2021-10-04 09:34:37.757980: W tensorflow/core/lib/png/png_io.cc:88] PNG
warning: iCCP: known incorrect sRGB profile
85 123/196 [=====>.....] - ETA: 4:47 - loss: 1.6031 -
accuracy: 0.43062021-10-04 09:34:49.948100: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
86 126/196 [=====>.....] - ETA: 4:37 - loss: 1.5929 -
accuracy: 0.43302021-10-04 09:35:06.391164: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
87 2021-10-04 09:35:08.479624: W tensorflow/core/lib/png/png_io.cc:88] PNG
warning: iCCP: known incorrect sRGB profile
88 131/196 [=====>.....] - ETA: 4:17 - loss: 1.5859 -
accuracy: 0.43492021-10-04 09:35:24.605715: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
89 133/196 [=====>.....] - ETA: 4:09 - loss: 1.5824 -
accuracy: 0.43522021-10-04 09:35:34.688454: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
90 2021-10-04 09:35:34.689117: W tensorflow/core/lib/png/png_io.cc:88] PNG
warning: iCCP: known incorrect sRGB profile
91 157/196 [=====>.....] - ETA: 2:48 - loss: 1.5457 -
accuracy: 0.43892021-10-04 09:37:59.837478: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
92 166/196 [=====>.....] - ETA: 2:33 - loss: 1.5340 -
accuracy: 0.43962021-10-04 09:41:09.075438: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
93 173/196 [=====>....] - ETA: 1:58 - loss: 1.5231 -
accuracy: 0.44242021-10-04 09:41:35.746884: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
94 174/196 [=====>....] - ETA: 1:53 - loss: 1.5222 -
accuracy: 0.44272021-10-04 09:41:39.267669: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
95 196/196 [=====] - ETA: 0s - loss: 1.5008 -
accuracy: 0.44492021-10-04 09:44:25.946444: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
96 2021-10-04 09:44:30.325205: W tensorflow/core/lib/png/png_io.cc:88] PNG
warning: iCCP: known incorrect sRGB profile
97 2021-10-04 09:44:34.202782: W tensorflow/core/lib/png/png_io.cc:88] PNG
warning: iCCP: known incorrect sRGB profile
98 2021-10-04 09:45:09.268272: W tensorflow/core/lib/png/png_io.cc:88] PNG
warning: iCCP: known incorrect sRGB profile
99 2021-10-04 09:45:10.081989: W tensorflow/core/lib/png/png_io.cc:88] PNG
warning: iCCP: known incorrect sRGB profile
100 2021-10-04 09:45:30.060676: W tensorflow/core/lib/png/png_io.cc:88] PNG
warning: iCCP: known incorrect sRGB profile
101 196/196 [=====] - 1140s 6s/step - loss: 1.5008
- accuracy: 0.4449 - val_loss: 1.3355 - val_accuracy: 0.4706
102 Epoch 2/10
103 196/196 [=====] - 1907s 10s/step - loss: 1.3250
- accuracy: 0.4703 - val_loss: 1.2975 - val_accuracy: 0.5064
104 Epoch 3/10
105 196/196 [=====] - 1236s 6s/step - loss: 1.3095
- accuracy: 0.4718 - val_loss: 1.2665 - val_accuracy: 0.5038
106 Epoch 4/10
107 196/196 [=====] - 2073s 10s/step - loss: 1.2988
- accuracy: 0.4713 - val_loss: 1.2715 - val_accuracy: 0.5038
108 Epoch 5/10
109 196/196 [=====] - 2134s 9s/step - loss: 1.2959
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109 - accuracy: 0.4770 - val_loss: 1.2956 - val_accuracy: 0.4744
110 Epoch 6/10
111 196/196 [=====] - 1360s 6s/step - loss: 1.2911
    - accuracy: 0.4758 - val_loss: 1.2894 - val_accuracy: 0.4885
112 Epoch 7/10
113 196/196 [=====] - 1382s 7s/step - loss: 1.2862
    - accuracy: 0.4804 - val_loss: 1.2874 - val_accuracy: 0.4840
114 Epoch 8/10
115 196/196 [=====] - 1179s 6s/step - loss: 1.2880
    - accuracy: 0.4786 - val_loss: 1.2866 - val_accuracy: 0.4840
116 Epoch 9/10
117 196/196 [=====] - 999s 5s/step - loss: 1.2844
    - accuracy: 0.4770 - val_loss: 1.2655 - val_accuracy: 0.4891
118 Epoch 10/10
119 196/196 [=====] - 1021s 5s/step - loss: 1.2785
    - accuracy: 0.4756 - val_loss: 1.2748 - val_accuracy: 0.4974
120 2021-10-04 13:27:51.513285: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
    while): 9 of 256
121 2021-10-04 13:28:02.113366: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
    while): 91 of 256
122 2021-10-04 13:28:09.224994: W tensorflow/core/lib/png/png_io.cc:88] PNG
    warning: iCCP: known incorrect sRGB profile
123 2021-10-04 13:28:11.295706: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
    while): 222 of 256
124 2021-10-04 13:28:12.636578: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:228] Shuffle buffer filled.
125 2/27 [=>.....] - ETA: 22s - loss: 1.3104 -
    accuracy: 0.5938 2021-10-04 13:28:18.644121: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
126 9/27 [=====>.....] - ETA: 31s - loss: 1.2866 -
    accuracy: 0.54512021-10-04 13:28:29.909886: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
127 10/27 [=====>.....] - ETA: 29s - loss: 1.2908 -
    accuracy: 0.55622021-10-04 13:28:31.303510: 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
128 2021-10-04 13:28:31.375112: 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
129 2021-10-04 13:28:31.375359: 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
130 2021-10-04 13:28:31.375614: 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
131 2021-10-04 13:28:31.375869: 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
132 2021-10-04 13:28:31.376143: 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
133 2021-10-04 13:28:31.376424: 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
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134 2021-10-04 13:28:31.376702: 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
135 2021-10-04 13:28:31.376925: 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
136 2021-10-04 13:28:31.377190: 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
137 2021-10-04 13:28:31.377415: 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
138 2021-10-04 13:28:31.377639: 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
139 2021-10-04 13:28:31.377874: 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
140 2021-10-04 13:28:31.408989: 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
141 2021-10-04 13:28:31.409217: 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
142 2021-10-04 13:28:31.409429: 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
143 2021-10-04 13:28:31.409685: W tensorflow/core/lib/png/png_io.cc:88] PNG
warning: iCCP: known incorrect sRGB profile
144 17/27 [=====>.....] - ETA: 17s - loss: 1.3177 -
accuracy: 0.54602021-10-04 13:28:43.681294: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
145 27/27 [=====] - 74s 1s/step - loss: 1.3323 -
accuracy: 0.5301
146 Accuracy: 0.5300925970077515
147 Loss: 1.332342267036438
148 end
149
150 Process finished with exit code 0
151
```