

```
1 C:\Users\jdeag\Desktop\project\ArtificialIntel\BuildingIdentifier\venv\
Scripts\python.exe C:/Users/jdeag/Desktop/project/ArtificialIntel/
BuildingIdentifier/ImageAnnotation/KerasTunerDeagan.py
2 2021-10-05 08:11:36.061866: 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 2021-10-05 08:11:36.062107: 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 2021-10-05 08:11:50.278977: 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 2021-10-05 08:11:50.279995: 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 2021-10-05 08:11:50.280937: 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 2021-10-05 08:11:50.315481: 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 2021-10-05 08:11:50.316573: 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 2021-10-05 08:11:50.337064: 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 2021-10-05 08:11:50.338445: 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 2021-10-05 08:11:50.339995: 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 2021-10-05 08:11:50.341831: 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 2021-10-05 08:11:50.343973: 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, 64)       1792
34 -----
35 max_pooling2d (MaxPooling2D) (None, 127, 127, 64)       0
36 -----
37 conv2d_1 (Conv2D)            (None, 125, 125, 128)      73856
38 -----
39 max_pooling2d_1 (MaxPooling2 (None, 62, 62, 128)       0
40 -----
41 conv2d_2 (Conv2D)            (None, 60, 60, 256)       295168
42 -----
43 max_pooling2d_2 (MaxPooling2 (None, 30, 30, 256)       0
44 -----
45 flatten (Flatten)           (None, 230400)             0
46 -----
47 dense (Dense)                (None, 128)                29491328
48 -----
49 dense_1 (Dense)              (None, 128)                16512
50 -----
51 dense_2 (Dense)              (None, 6)                  774
52 =====
53 Total params: 29,879,430
54 Trainable params: 29,879,430
55 Non-trainable params: 0
56 -----
57 Epoch 1/10
58 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?"
59 warnings.warn(
60 2021-10-05 08:11:51.678436: I tensorflow/compiler/mlir/
mlir_graph_optimization_pass.cc:185] None of the MLIR Optimization Passes
are enabled (registered 2)
61 2021-10-05 08:11:52.935876: W tensorflow/core/framework/
cpu_allocator_impl.cc:80] Allocation of 528515072 exceeds 10% of free
system memory.
62 2021-10-05 08:11:53.215296: W tensorflow/core/framework/
cpu_allocator_impl.cc:80] Allocation of 256000000 exceeds 10% of free
system memory.
63 2021-10-05 08:11:55.121225: W tensorflow/core/framework/
cpu_allocator_impl.cc:80] Allocation of 256000000 exceeds 10% of free
system memory.
64 2021-10-05 08:11:56.264231: W tensorflow/core/framework/
cpu_allocator_impl.cc:80] Allocation of 264257536 exceeds 10% of free
system memory.
65 2021-10-05 08:11:56.264555: W tensorflow/core/framework/
cpu_allocator_impl.cc:80] Allocation of 528515072 exceeds 10% of free
```

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65 system memory.
66 1/196 [.....] - ETA: 21:43 - loss: 1.8022 -
accuracy: 0.15622021-10-05 08:11:58.101210: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
67 4/196 [.....] - ETA: 12:56 - loss: 3.8533 -
accuracy: 0.21882021-10-05 08:12:10.107940: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
68 5/196 [.....] - ETA: 12:38 - loss: 3.4141 -
accuracy: 0.26882021-10-05 08:12:13.776484: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
69 13/196 [>.....] - ETA: 11:16 - loss: 2.2151 -
accuracy: 0.35342021-10-05 08:12:42.245637: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
70 46/196 [=====>.....] - ETA: 8:59 - loss: 1.6244 -
accuracy: 0.42122021-10-05 08:14:39.839833: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
71 2021-10-05 08:14:39.951668: W tensorflow/core/lib/png/png_io.cc:88] PNG
warning: iCCP: known incorrect sRGB profile
72 56/196 [=====>.....] - ETA: 8:21 - loss: 1.5738 -
accuracy: 0.43022021-10-05 08:15:15.040587: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
73 58/196 [=====>.....] - ETA: 8:14 - loss: 1.5662 -
accuracy: 0.42942021-10-05 08:15:22.427362: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
74 60/196 [=====>.....] - ETA: 8:07 - loss: 1.5615 -
accuracy: 0.43022021-10-05 08:15:29.129032: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
75 65/196 [=====>.....] - ETA: 7:49 - loss: 1.5453 -
accuracy: 0.42932021-10-05 08:15:47.173079: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
76 73/196 [=====>.....] - ETA: 7:21 - loss: 1.5264 -
accuracy: 0.42812021-10-05 08:16:16.450990: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
77 76/196 [=====>.....] - ETA: 7:11 - loss: 1.5178 -
accuracy: 0.42932021-10-05 08:16:27.564208: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
78 82/196 [=====>.....] - ETA: 6:50 - loss: 1.5055 -
accuracy: 0.42912021-10-05 08:16:49.257479: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
79 89/196 [=====>.....] - ETA: 6:25 - loss: 1.4939 -
accuracy: 0.42872021-10-05 08:17:07.649693: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
80 92/196 [=====>.....] - ETA: 6:14 - loss: 1.4889 -
accuracy: 0.42872021-10-05 08:17:26.064485: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
81 96/196 [=====>.....] - ETA: 6:00 - loss: 1.4840 -
accuracy: 0.43132021-10-05 08:17:40.809369: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
82 109/196 [=====>.....] - ETA: 5:15 - loss: 1.4681 -
accuracy: 0.44042021-10-05 08:18:29.423648: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
83 117/196 [=====>.....] - ETA: 4:46 - loss: 1.4614 -
accuracy: 0.44042021-10-05 08:18:58.703593: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
84 119/196 [=====>.....] - ETA: 4:39 - loss: 1.4614 -
accuracy: 0.43932021-10-05 08:19:06.201912: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
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85 122/196 [=====>.....] - ETA: 4:28 - loss: 1.4559 -  
    accuracy: 0.44132021-10-05 08:19:16.963813: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
86 2021-10-05 08:19:17.036713: W tensorflow/core/lib/png/png_io.cc:88] PNG  
    warning: iCCP: known incorrect sRGB profile  
87 127/196 [=====>.....] - ETA: 4:10 - loss: 1.4485 -  
    accuracy: 0.44372021-10-05 08:19:35.398846: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
88 130/196 [=====>.....] - ETA: 3:59 - loss: 1.4512 -  
    accuracy: 0.44332021-10-05 08:19:45.766803: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
89 131/196 [=====>.....] - ETA: 3:55 - loss: 1.4483 -  
    accuracy: 0.44472021-10-05 08:19:49.490772: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
90 134/196 [=====>.....] - ETA: 3:44 - loss: 1.4465 -  
    accuracy: 0.44502021-10-05 08:20:01.367637: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
91 135/196 [=====>.....] - ETA: 3:41 - loss: 1.4453 -  
    accuracy: 0.44512021-10-05 08:20:05.225330: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
92 2021-10-05 08:20:05.256509: W tensorflow/core/lib/png/png_io.cc:88] PNG  
    warning: iCCP: known incorrect sRGB profile  
93 154/196 [=====>.....] - ETA: 2:32 - loss: 1.4305 -  
    accuracy: 0.44892021-10-05 08:21:12.086141: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
94 166/196 [=====>.....] - ETA: 1:48 - loss: 1.4261 -  
    accuracy: 0.44652021-10-05 08:21:55.057527: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
95 172/196 [=====>....] - ETA: 1:27 - loss: 1.4212 -  
    accuracy: 0.44892021-10-05 08:22:26.982045: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
96 174/196 [=====>....] - ETA: 1:21 - loss: 1.4194 -  
    accuracy: 0.44942021-10-05 08:22:37.089238: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
97 196/196 [=====] - ETA: 0s - loss: 1.4105 -  
    accuracy: 0.44822021-10-05 08:27:26.521963: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
98 2021-10-05 08:27:28.554874: W tensorflow/core/lib/png/png_io.cc:88] PNG  
    warning: iCCP: known incorrect sRGB profile  
99 2021-10-05 08:27:30.755777: W tensorflow/core/lib/png/png_io.cc:88] PNG  
    warning: iCCP: known incorrect sRGB profile  
100 2021-10-05 08:27:53.712990: W tensorflow/core/lib/png/png_io.cc:88] PNG  
    warning: iCCP: known incorrect sRGB profile  
101 2021-10-05 08:27:53.941135: W tensorflow/core/lib/png/png_io.cc:88] PNG  
    warning: iCCP: known incorrect sRGB profile  
102 2021-10-05 08:28:36.820038: W tensorflow/core/lib/png/png_io.cc:88] PNG  
    warning: iCCP: known incorrect sRGB profile  
103 196/196 [=====] - 1031s 5s/step - loss: 1.4105  
    - accuracy: 0.4482 - val_loss: 1.3241 - val_accuracy: 0.4885  
104 Epoch 2/10  
105 196/196 [=====] - 1149s 6s/step - loss: 1.3250  
    - accuracy: 0.4569 - val_loss: 1.3201 - val_accuracy: 0.4219  
106 Epoch 3/10  
107 196/196 [=====] - 1028s 5s/step - loss: 1.3168  
    - accuracy: 0.4634 - val_loss: 1.2762 - val_accuracy: 0.4891  
108 Epoch 4/10  
109 196/196 [=====] - 893s 5s/step - loss: 1.2978
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109 - accuracy: 0.4714 - val_loss: 1.2647 - val_accuracy: 0.5077
110 Epoch 5/10
111 196/196 [=====] - 921s 5s/step - loss: 1.2898
    - accuracy: 0.4790 - val_loss: 1.2875 - val_accuracy: 0.4738
112 Epoch 6/10
113 196/196 [=====] - 1389s 7s/step - loss: 1.2876
    - accuracy: 0.4750 - val_loss: 1.2589 - val_accuracy: 0.4942
114 Epoch 7/10
115 196/196 [=====] - 1092s 5s/step - loss: 1.2791
    - accuracy: 0.4794 - val_loss: 1.2417 - val_accuracy: 0.5058
116 Epoch 8/10
117 196/196 [=====] - 892s 5s/step - loss: 1.2665
    - accuracy: 0.4862 - val_loss: 1.2940 - val_accuracy: 0.4962
118 Epoch 9/10
119 196/196 [=====] - 891s 5s/step - loss: 1.2657
    - accuracy: 0.4871 - val_loss: 1.2688 - val_accuracy: 0.5006
120 Epoch 10/10
121 196/196 [=====] - 901s 5s/step - loss: 1.2677
    - accuracy: 0.4820 - val_loss: 1.2526 - val_accuracy: 0.4987
122 2021-10-05 11:02:05.375138: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
    while): 13 of 256
123 2021-10-05 11:02:16.079331: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
    while): 92 of 256
124 2021-10-05 11:02:23.198791: W tensorflow/core/lib/png/png_io.cc:88] PNG
    warning: iCCP: known incorrect sRGB profile
125 2021-10-05 11:02:25.363682: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
    while): 240 of 256
126 2021-10-05 11:02:29.305514: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:228] Shuffle buffer filled.
127 2/27 [=>.....] - ETA: 40s - loss: 1.2271 -
    accuracy: 0.6250 2021-10-05 11:02:38.271746: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
128 9/27 [=====>.....] - ETA: 57s - loss: 1.2448 -
    accuracy: 0.5243 2021-10-05 11:03:00.714176: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
129 10/27 [=====>.....] - ETA: 54s - loss: 1.2487 -
    accuracy: 0.5250 2021-10-05 11:03:05.845872: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
130 2021-10-05 11:03:05.927859: 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
131 2021-10-05 11:03:05.928296: 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
132 2021-10-05 11:03:05.928682: 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
133 2021-10-05 11:03:06.093052: 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
134 2021-10-05 11:03:06.094068: 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
135 2021-10-05 11:03:06.095074: W tensorflow/core/lib/png/png_io.cc:88] PNG
```

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135 warning: iCCP: profile 'ICC Profile': 'bXYZ': ICC profile tag start not
    a multiple of 4
136 2021-10-05 11:03:06.096072: 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
137 2021-10-05 11:03:06.097088: 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
138 2021-10-05 11:03:06.097778: 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
139 2021-10-05 11:03:06.097995: 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
140 2021-10-05 11:03:06.113502: 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
141 2021-10-05 11:03:06.171277: 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
142 2021-10-05 11:03:06.244281: 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
143 2021-10-05 11:03:06.359350: 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
144 2021-10-05 11:03:06.359849: 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
145 2021-10-05 11:03:06.360237: 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
146 16/27 [=====>.....] - ETA: 36s - loss: 1.2560 -
    accuracy: 0.50592021-10-05 11:03:25.051799: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
147 27/27 [=====] - 103s 3s/step - loss: 1.2682 -
    accuracy: 0.5058
148 Accuracy: 0.5057870149612427
149 Loss: 1.2681937217712402
150 end
151
152 Process finished with exit code 0
153
```