

```
1 C:\Users\jdeag\Desktop\project\ArtificialIntel\BuildingIdentifier\venv\
Scripts\python.exe C:/Users/jdeag/Desktop/project/ArtificialIntel/
BuildingIdentifier/ImageAnnotation/KerasTunerDeagan.py
2 THIS IS THE PROPER KERAS TUNER
  //////////////////////////////////////
  //////////////////////////////////////
  //////////////////////////////////////
3 2.6.0
4 Found 7811 files belonging to 6 classes.
5 Using 6249 files for training.
6 2021-09-30 16:11:58.393055: W tensorflow/stream_executor/platform/default
/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll';
dlerror: cudart64_110.dll not found
7 2021-09-30 16:11:58.393270: 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.
8 2021-09-30 16:12:14.051879: 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 2021-09-30 16:12:14.086157: 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 2021-09-30 16:12:14.087981: 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 2021-09-30 16:12:14.089658: 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 2021-09-30 16:12:14.090548: 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 2021-09-30 16:12:14.091472: 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 2021-09-30 16:12:14.092437: 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 2021-09-30 16:12:14.093557: 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 2021-09-30 16:12:14.129281: 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 2021-09-30 16:12:14.131045: 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"
```

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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 flatten (Flatten)           (None, 115200)             0
46 -----
47 dense (Dense)                (None, 256)                29491456
48 -----
49 dense_1 (Dense)              (None, 6)                  1542
50 =====
51 Total params: 29,586,246
52 Trainable params: 29,586,246
53 Non-trainable params: 0
54 -----
55 Epoch 1/10
56 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?"
57 warnings.warn(
58 2021-09-30 16:12:15.269470: I tensorflow/compiler/mlir/
mlir_graph_optimization_pass.cc:185] None of the MLIR Optimization Passes
are enabled (registered 2)
59 1/196 [.....] - ETA: 8:58 - loss: 1.7537 -
accuracy: 0.21882021-09-30 16:12:17.879802: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
60 4/196 [.....] - ETA: 5:26 - loss: 5.9895 -
accuracy: 0.23442021-09-30 16:12:22.852248: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
61 5/196 [.....] - ETA: 5:24 - loss: 5.0382 -
accuracy: 0.25002021-09-30 16:12:24.648135: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
62 13/196 [>.....] - ETA: 5:14 - loss: 2.8313 -
accuracy: 0.31732021-09-30 16:12:38.352182: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
63 46/196 [=====>.....] - ETA: 4:14 - loss: 1.7987 -
accuracy: 0.39742021-09-30 16:13:34.127573: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
64 2021-09-30 16:13:34.190137: W tensorflow/core/lib/png/png_io.cc:88] PNG
```

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64 warning: iCCP: known incorrect sRGB profile
65 56/196 [=====>.....] - ETA: 3:58 - loss: 1.7157 -
accuracy: 0.41072021-09-30 16:13:51.165730: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
66 58/196 [=====>.....] - ETA: 3:54 - loss: 1.7013 -
accuracy: 0.41062021-09-30 16:13:54.753007: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
67 60/196 [=====>.....] - ETA: 3:51 - loss: 1.6925 -
accuracy: 0.41202021-09-30 16:13:57.984374: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
68 65/196 [=====>.....] - ETA: 3:42 - loss: 1.6666 -
accuracy: 0.41152021-09-30 16:14:06.512694: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
69 73/196 [=====>.....] - ETA: 3:29 - loss: 1.6310 -
accuracy: 0.41522021-09-30 16:14:20.229981: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
70 76/196 [=====>.....] - ETA: 3:24 - loss: 1.6191 -
accuracy: 0.41692021-09-30 16:14:25.371500: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
71 82/196 [=====>.....] - ETA: 3:14 - loss: 1.5982 -
accuracy: 0.41772021-09-30 16:14:35.511851: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
72 87/196 [=====>.....] - ETA: 3:05 - loss: 1.5835 -
accuracy: 0.41592021-09-30 16:14:43.968617: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
73 92/196 [=====>.....] - ETA: 2:57 - loss: 1.5702 -
accuracy: 0.41682021-09-30 16:14:52.671718: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
74 96/196 [=====>.....] - ETA: 2:50 - loss: 1.5607 -
accuracy: 0.41992021-09-30 16:14:59.548837: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
75 109/196 [=====>.....] - ETA: 2:28 - loss: 1.5344 -
accuracy: 0.43032021-09-30 16:15:21.524484: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
76 117/196 [=====>.....] - ETA: 2:14 - loss: 1.5210 -
accuracy: 0.43112021-09-30 16:15:35.499640: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
77 119/196 [=====>.....] - ETA: 2:11 - loss: 1.5194 -
accuracy: 0.42992021-09-30 16:15:38.961938: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
78 122/196 [=====>.....] - ETA: 2:06 - loss: 1.5138 -
accuracy: 0.43112021-09-30 16:15:44.105191: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
79 2021-09-30 16:15:44.227334: W tensorflow/core/lib/png/png_io.cc:88] PNG
warning: iCCP: known incorrect sRGB profile
80 127/196 [=====>.....] - ETA: 1:57 - loss: 1.5035 -
accuracy: 0.43382021-09-30 16:15:52.716195: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
81 130/196 [=====>.....] - ETA: 1:52 - loss: 1.5051 -
accuracy: 0.43392021-09-30 16:15:57.864700: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
82 131/196 [=====>.....] - ETA: 1:51 - loss: 1.5019 -
accuracy: 0.43542021-09-30 16:15:59.637463: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
83 134/196 [=====>.....] - ETA: 1:46 - loss: 1.4985 -
accuracy: 0.43592021-09-30 16:16:05.363533: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
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84 135/196 [=====>.....] - ETA: 1:44 - loss: 1.4968 -  
    accuracy: 0.43612021-09-30 16:16:07.502644: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
85 2021-09-30 16:16:07.503186: W tensorflow/core/lib/png/png_io.cc:88] PNG  
    warning: iCCP: known incorrect sRGB profile  
86 154/196 [=====>.....] - ETA: 1:11 - loss: 1.4751 -  
    accuracy: 0.44122021-09-30 16:16:39.911112: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
87 166/196 [=====>.....] - ETA: 51s - loss: 1.4668 -  
    accuracy: 0.43902021-09-30 16:17:00.780280: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
88 172/196 [=====>....] - ETA: 41s - loss: 1.4604 -  
    accuracy: 0.44172021-09-30 16:17:11.277425: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
89 174/196 [=====>....] - ETA: 37s - loss: 1.4581 -  
    accuracy: 0.44202021-09-30 16:17:14.743117: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
90 196/196 [=====] - ETA: 0s - loss: 1.4436 -  
    accuracy: 0.44232021-09-30 16:18:00.077700: W tensorflow/core/lib/png/  
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile  
91 2021-09-30 16:18:00.298055: W tensorflow/core/lib/png/png_io.cc:88] PNG  
    warning: iCCP: known incorrect sRGB profile  
92 2021-09-30 16:18:00.895344: W tensorflow/core/lib/png/png_io.cc:88] PNG  
    warning: iCCP: known incorrect sRGB profile  
93 2021-09-30 16:18:09.104760: W tensorflow/core/lib/png/png_io.cc:88] PNG  
    warning: iCCP: known incorrect sRGB profile  
94 2021-09-30 16:18:09.340761: W tensorflow/core/lib/png/png_io.cc:88] PNG  
    warning: iCCP: known incorrect sRGB profile  
95 2021-09-30 16:18:13.825605: W tensorflow/core/lib/png/png_io.cc:88] PNG  
    warning: iCCP: known incorrect sRGB profile  
96 196/196 [=====] - 365s 2s/step - loss: 1.4436  
    - accuracy: 0.4423 - val_loss: 1.2881 - val_accuracy: 0.4872  
97 Epoch 2/10  
98 196/196 [=====] - 510s 3s/step - loss: 1.3177  
    - accuracy: 0.4612 - val_loss: 1.3067 - val_accuracy: 0.4834  
99 Epoch 3/10  
100 196/196 [=====] - 501s 3s/step - loss: 1.3027  
    - accuracy: 0.4702 - val_loss: 1.2716 - val_accuracy: 0.4904  
101 Epoch 4/10  
102 196/196 [=====] - 658s 3s/step - loss: 1.2907  
    - accuracy: 0.4722 - val_loss: 1.2936 - val_accuracy: 0.4417  
103 Epoch 5/10  
104 196/196 [=====] - 641s 3s/step - loss: 1.2791  
    - accuracy: 0.4838 - val_loss: 1.2942 - val_accuracy: 0.4469  
105 Epoch 6/10  
106 196/196 [=====] - 1023s 5s/step - loss: 1.2715  
    - accuracy: 0.4751 - val_loss: 1.2868 - val_accuracy: 0.4552  
107 Epoch 7/10  
108 196/196 [=====] - 593s 3s/step - loss: 1.2725  
    - accuracy: 0.4833 - val_loss: 1.2848 - val_accuracy: 0.4885  
109 Epoch 8/10  
110 196/196 [=====] - 544s 3s/step - loss: 1.2591  
    - accuracy: 0.4911 - val_loss: 1.2652 - val_accuracy: 0.4930  
111 Epoch 9/10  
112 196/196 [=====] - 563s 3s/step - loss: 1.2624  
    - accuracy: 0.4804 - val_loss: 1.2441 - val_accuracy: 0.5218  
113 Epoch 10/10
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114 196/196 [=====] - 607s 3s/step - loss: 1.2515
    - accuracy: 0.4929 - val_loss: 1.2645 - val_accuracy: 0.4648
115 2021-09-30 17:53:16.462184: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
    while): 131 of 256
116 2021-09-30 17:53:24.787275: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
    while): 143 of 256
117 2021-09-30 17:53:26.646590: W tensorflow/core/lib/png/png_io.cc:88] PNG
    warning: iCCP: known incorrect sRGB profile
118 2021-09-30 17:53:32.181826: I tensorflow/core/kernels/data/
    shuffle_dataset_op.cc:228] Shuffle buffer filled.
119 3/27 [==>.....] - ETA: 2:00 - loss: 1.3106 -
    accuracy: 0.48962021-09-30 17:53:48.567607: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
120 9/27 [=====>.....] - ETA: 1:22 - loss: 1.2914 -
    accuracy: 0.47222021-09-30 17:54:16.451821: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
121 10/27 [=====>.....] - ETA: 1:14 - loss: 1.2975 -
    accuracy: 0.46562021-09-30 17:54:18.184064: W tensorflow/core/lib/png/
    png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
122 2021-09-30 17:54:18.623204: 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
123 2021-09-30 17:54:18.623449: 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
124 2021-09-30 17:54:18.669647: 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
125 2021-09-30 17:54:18.699161: 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
126 2021-09-30 17:54:18.805814: 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
127 2021-09-30 17:54:18.993678: 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
128 2021-09-30 17:54:18.994683: 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
129 2021-09-30 17:54:18.995677: 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
130 2021-09-30 17:54:18.996658: 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
131 2021-09-30 17:54:18.997813: 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
132 2021-09-30 17:54:18.998787: 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
133 2021-09-30 17:54:18.999029: 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
```

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134 2021-09-30 17:54:18.999238: 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
135 2021-09-30 17:54:18.999446: 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
136 2021-09-30 17:54:18.999656: 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
137 2021-09-30 17:54:18.999866: 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
138 17/27 [=====>.....] - ETA: 39s - loss: 1.3121 -
accuracy: 0.46142021-09-30 17:54:41.428607: W tensorflow/core/lib/png/
png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
139 27/27 [=====] - 106s 3s/step - loss: 1.3098 -
accuracy: 0.4699
140 Accuracy: 0.46990740299224854
141 Loss: 1.3097506761550903
142 end
143
144 Process finished with exit code 0
145
```