- 1 C:\Users\jdeag\Desktop\project\ArtificialIntel\BuildingIdentifier\venv\
 Scripts\python.exe C:/Users/jdeag/Desktop/project/ArtificialIntel/
 BuildingIdentifier/ImageAnnotation/KerasTunerDeagan.py
- 2 2021-09-27 08:41:59.050928: 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 2021-09-27 08:41:59.077221: 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.
- 5 2.6.0
- 6 Found 7811 files belonging to 6 classes.
- 7 Using 6249 files for training.
- 8 2021-09-27 08:42:22.118868: 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 2021-09-27 08:42:22.119886: 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 2021-09-27 08:42:22.120817: 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 2021-09-27 08:42:22.121749: 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 2021-09-27 08:42:22.122671: 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 2021-09-27 08:42:22.123599: 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 2021-09-27 08:42:22.124532: 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 2021-09-27 08:42:22.125463: 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 2021-09-27 08:42:22.125652: 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 2021-09-27 08:42:22.131147: 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"

| File - K | KerasTunerDeagan | | | | |
|----------------------|--|--------------------------|--------------|-------------------|--|
| 24 | | | | | |
| 25 26 | Layer (type) | Output Shape ======== | :======: | Param # ====== | |
| 27 28 | rescaling (Rescaling) | (None, 256, 256 | 5, 3) | 0 | |
| 29 30 | random_flip (RandomFlip) | | | 0 | |
| | random_rotation (RandomRotat | (None, 256, 256 | 5, 3) | | |
| 33 | conv2d (Conv2D) | (None, 254, 254 | i, 32) | 896 | |
| 35 | <pre>max_pooling2d (MaxPooling2D)</pre> | (None, 127, 127 | 7, 32) | | |
| 37 38 | conv2d_1 (Conv2D) | (None, 125, 125 | 64) | 18496 | |
| | max_pooling2d_1 (MaxPooling2 | (None, 62, 62, | 64) | 0 | |
| 41 | conv2d_2 (Conv2D) | (None, 60, 60, | 128) | 73856 | |
| | max_pooling2d_2 (MaxPooling2 | | 128) | 0 | |
| | flatten (Flatten) | (None, 115200) | | 0 | |
| 47 | dense (Dense) | (None, 256) | | 29491456 | |
| 49 50 | dense_1 (Dense) | (None, 128) | | 32896 | |
| 51 | dense_2 (Dense) | (None, 6) | | 774 | |
| 54 55 56 57 | Total params: 29,618,374 Trainable params: 29,618,374 Non-trainable params: 0 Epoch 1/10 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(| toncon:53 /- | | 1 | |
| 00 | 2021-09-27 08:42:23.539185: I tensorflow/compiler/mlir/mlir_graph_optimization_pass.cc:185] None of the MLIR Optimization Passes are enabled (registered 2) | | | | |
| 61 | 2021-09-27 08:42:25.074245: W | | | | |
| / 0 | <pre>cpu_allocator_impl.cc:80] All system memory.</pre> | | | | |
| | 2021-09-27 08:42:26.417189: W tensorflow/core/framework/cpu_allocator_impl.cc:80] Allocation of 264257536 exceeds 10% of free system memory. | | | | |
| 63 | 1/196 [| :42:27.283153: | W tensorflo | ow/core/lib/png | |
| 64 | <pre>png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile 2021-09-27 08:42:27.293433: W tensorflow/core/framework/ cpu_allocator_impl.cc:80] Allocation of 264257536 exceeds 10% of free</pre> | | | | |
| 65 | system memory. 2021-09-27 08:42:28.488801: W | tensorflow/cor | re/framework | <!--</b--> | |
| | cpu_allocator_impl.cc:80] Allocation of 264257536 exceeds 10% of free | | | | |
| Page 2 of 6 | | | | | |

```
84 png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
85 121/196 [============>....] - ETA: 2:17 - loss: 1.8047 -
   accuracy: 0.44092021-09-27 08:46:07.868021: W tensorflow/core/lib/png/
   png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
86 2021-09-27 08:46:07.878628: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
87 126/196 [============>....] - ETA: 2:08 - loss: 1.7903 -
   accuracy: 0.44322021-09-27 08:46:17.358056: W tensorflow/core/lib/png/
   png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
88 129/196 [============>.....] - ETA: 2:03 - loss: 1.7844 -
   accuracy: 0.44432021-09-27 08:46:22.732227: W tensorflow/core/lib/png/
   png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
89 130/196 [=============>....] - ETA: 2:01 - loss: 1.7856 -
   accuracy: 0.44332021-09-27 08:46:25.161681: W tensorflow/core/lib/png/
   png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
90 133/196 [==============>.....] - ETA: 1:56 - loss: 1.7770 -
   accuracy: 0.44482021-09-27 08:46:30.425436: W tensorflow/core/lib/png/
   png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
91 134/196 [===============>.....] - ETA: 1:54 - loss: 1.7753 -
   accuracy: 0.44502021-09-27 08:46:32.668223: W tensorflow/core/lib/png/
   png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
92 2021-09-27 08:46:32.690774: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
accuracy: 0.44892021-09-27 08:47:09.428870: W tensorflow/core/lib/png/
   png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
accuracy: 0.44652021-09-27 08:47:35.355688: W tensorflow/core/lib/png/
   png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
accuracy: 0.44712021-09-27 08:47:41.904870: W tensorflow/core/lib/png/
   png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
accuracy: 0.44902021-09-27 08:47:44.521354: W tensorflow/core/lib/png/
   png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
accuracy: 0.44862021-09-27 08:48:52.763225: W tensorflow/core/lib/png/
   png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
98 2021-09-27 08:48:53.411502: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
99 2021-09-27 08:48:54.183616: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
100 2021-09-27 08:49:08.669247: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
101 2021-09-27 08:49:08.743597: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
102 2021-09-27 08:49:13.978834: W tensorflow/core/lib/png/png_io.cc:88] PNG
   warning: iCCP: known incorrect sRGB profile
- accuracy: 0.4486 - val_loss: 1.4213 - val_accuracy: 0.4795
104 Epoch 2/10
- accuracy: 0.4540 - val_loss: 1.4022 - val_accuracy: 0.4795
- accuracy: 0.4495 - val_loss: 1.3510 - val_accuracy: 0.4795
108 Epoch 4/10
```

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- 110 Epoch 5/10
- accuracy: 0.4609 val_loss: 1.3277 val_accuracy: 0.4853
- 112 Epoch 6/10
- accuracy: 0.4689 val_loss: 1.3239 val_accuracy: 0.4994
- 114 Epoch 7/10
- - accuracy: 0.4710 val_loss: 1.3156 val_accuracy: 0.4962
- 116 Epoch 8/10
- - accuracy: 0.4770 val_loss: 1.3211 val_accuracy: 0.4859
- 118 Epoch 9/10
- - accuracy: 0.4730 val_loss: 1.3061 val_accuracy: 0.4968
- 120 Epoch 10/10
- - accuracy: 0.4791 val_loss: 1.2841 val_accuracy: 0.5032
- 122 2021-09-27 10:28:09.645874: I tensorflow/core/kernels/data/ shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
 - while): 3 of 256
- 123 2021-09-27 10:28:19.297383: I tensorflow/core/kernels/data/ shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
- while): 27 of 256
- 124 2021-09-27 10:28:29.550781: I tensorflow/core/kernels/data/ shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a while): 81 of 256
- 125 2021-09-27 10:28:38.740202: I tensorflow/core/kernels/data/ shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a while): 117 of 256
- 126 2021-09-27 10:28:48.998162: I tensorflow/core/kernels/data/ shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a
- while): 148 of 256 127 2021-09-27 10:28:57.348703: W tensorflow/core/lib/png/png_io.cc:88] PNG
- warning: iCCP: known incorrect sRGB profile
 128 2021-09-27 10:29:00.847573: I tensorflow/core/kernels/data/
- shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a while): 202 of 256
- 129 2021-09-27 10:29:09.167806: I tensorflow/core/kernels/data/ shuffle_dataset_op.cc:175] Filling up shuffle buffer (this may take a while): 236 of 256
- 130 2021-09-27 10:29:12.982847: I tensorflow/core/kernels/data/shuffle_dataset_op.cc:228] Shuffle buffer filled.
- 131 3/27 [==>......] ETA: 3:31 loss: 1.2920 accuracy: 0.58332021-09-27 10:29:39.101268: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
- 132 9/27 [=======>.....] ETA: 1:58 loss: 1.2995 accuracy: 0.52432021-09-27 10:30:17.559595: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
- 133 10/27 [========>.....] ETA: 1:46 loss: 1.3053 accuracy: 0.52502021-09-27 10:30:18.908862: 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
- 134 2021-09-27 10:30:19.016615: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: profile 'ICC Profile': 'wtpt': ICC profile tag start not

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134 a multiple of 4
```

- 135 2021-09-27 10:30:19.053599: 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
- 136 2021-09-27 10:30:19.054588: 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
- 137 2021-09-27 10:30:19.055555: 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
- 138 2021-09-27 10:30:19.056523: 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
- 139 2021-09-27 10:30:19.057491: 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
- 140 2021-09-27 10:30:19.114695: 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
- 141 2021-09-27 10:30:19.115639: 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
- 142 2021-09-27 10:30:19.116573: 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
- 143 2021-09-27 10:30:19.117514: 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
- 144 2021-09-27 10:30:19.118446: 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
- 145 2021-09-27 10:30:19.119107: 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
- 146 2021-09-27 10:30:19.119313: 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
- 147 2021-09-27 10:30:19.119522: 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
- 148 2021-09-27 10:30:19.119723: 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
- 149 2021-09-27 10:30:22.749606: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
- 150 17/27 [==============>.....] ETA: 51s loss: 1.3226 accuracy: 0.52212021-09-27 10:30:44.423525: W tensorflow/core/lib/png/png_io.cc:88] PNG warning: iCCP: known incorrect sRGB profile
- - 0.5150
- 152 Accuracy: 0.5150462985038757
- 153 Loss: 1.329714298248291
- 154 end
- 1 5 5
- 156 Process finished with exit code Θ