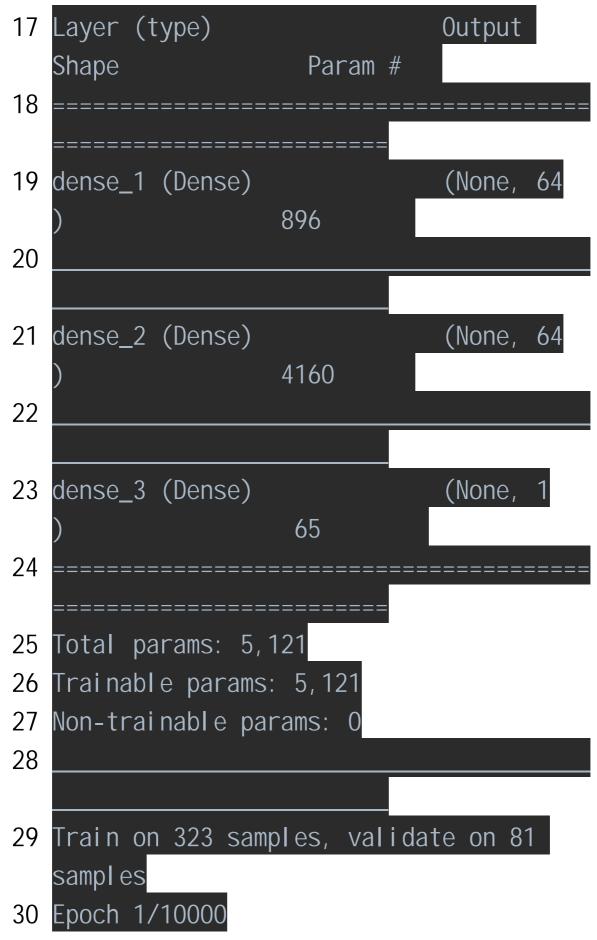
```
1 ssh: //root@103.254.67.181:10006/usr/bin/
   python -u /home/sunfengzhen/pycharm/
  keras_regress/boston01.py
 2 Using TensorFlow backend.
 3 ###########Ioad dataset
  ################
 4 the type of train data is float64
 5 the shape of train data is (404, 13)
 6 the shape of train target is (404,)
 7 the type of train target is float64
8 train target[:10]: [15.2 42.3 50. 21.1
  17.7 18.5 11.3 15.6 15.6 14.4]
 9 the shape of test data is (102, 13)
10 the shape of test target is (102,)
11 #############data proecess
  #################
12 the shape of mean is (13,)
13 the shape of std is (13,)
14 ###########model train
  ###############
15 model.metrics_names = ['loss',
  mean_absolute_error']
16
```



31 2019-05-29 11:05:34.937966: I tensorflow /core/platform/cpu_feature_guard.cc:141] Your CPU supports instructions that this TensorFlow binary was not compiled to use: AVX2 FMA 32 2019-05-29 11:05:35.230175: I tensorflow /core/common_runtime/gpu/gpu_device.cc: 1432] Found device O with properties: 33 name: GeForce GTX 1080 Ti major: 6 minor : 1 memoryClockRate(GHz): 1.582 34 pci BusID: 0000:82:00.0 total Memory: 10.92GiB freeMemory: 10. 76Gi B 36 2019-05-29 11:05:35.230262: I tensorflow /core/common_runtime/gpu/gpu_device.cc: 1511] Adding visible gpu devices: 0 37 2019-05-29 11:05:35.636332: I tensorflow /core/common_runtime/gpu/gpu_device.cc: 982] Device interconnect StreamExecutor with strength 1 edge matrix: 38 2019-05-29 11:05:35.636443: I tensorflow /core/common_runtime/gpu/gpu_device.cc: 988] ()39 2019-05-29 11:05:35.636459: I tensorflow

```
/core/common_runtime/gpu/gpu_device.cc:
39
   1001] 0:
              N
40 2019-05-29 11:05:35.636842: I tensorflow
   /core/common_runtime/gpu/gpu_device.cc:
   1115] Created TensorFlow device (/job:
   localhost/replica: O/task: O/device: GPU: O
   with 10409 MB memory) -> physical GPU (
   device: O, name: GeForce GTX 1080 Ti,
   pci bus id: 0000:82:00.0, compute
   capability: 6.1)
   - 1s - loss: 508.8570 -
41
   mean_absolute_error: 20.4707 - val_loss
   : 502.1782 - val_mean_absolute_error: 20
   . 3382
42 Epoch 2/10000
   - 0s - loss: 377.0670 -
43
   mean_absolute_error: 16.9365 - val_loss
     351.6663 - val_mean_absolute_error: 16
   3737
44 Epoch 3/10000
   - 0s - loss: 233.1376 -
45
   mean_absolute_error: 12.7086 - val_loss
     201.0621 - val_mean_absolute_error: 11
   5551
```

```
46 Epoch 4/10000
   - 0s - loss: 119.1073 -
47
   mean_absolute_error: 8.5366 - val_loss:
   106.8299 - val_mean_absolute_error: 7.
   8862
48 Epoch 5/10000
   - 0s - loss: 66.6506 -
49
   mean_absolute_error: 6.1033 - val_loss:
   66.7304 - val_mean_absolute_error: 6.
   1965
50 Epoch 6/10000
   - 0s - loss: 46.5216 -
51
   mean_absolute_error: 4.9055 - val_loss:
   50.3796 - val_mean_absolute_error: 5.
   2820
52 Epoch 7/10000
   - 0s - loss: 35.6644 -
53
   mean_absolute_error: 4.1863 - val_loss:
   37.8124 - val_mean_absolute_error: 4.
   6576
54 Epoch 8/10000
55 - 0s - loss: 28.5578 -
   mean_absolute_error: 3.7078 - val_loss:
   <u> 29.4733 - val_mean_absolute_error: 4.</u>
```

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mean_absolute_error: 2.9657 - val_loss:

- 0s - loss: 18.6735 -

65

```
19.3226 - val_mean_absolute_error: 3.
65
   4762
66 Epoch 13/10000
   - 0s - loss: 17.0796 -
67
   mean_absolute_error: 2.8401 - val_loss:
   18.5031 - val_mean_absolute_error: 3.
   4244
68 Epoch 14/10000
   - 0s - loss: 15.8806 -
69
   mean_absolute_error: 2.7602 - val_loss:
   16.5286 - val_mean_absolute_error: 3.
   1774
70 Epoch 15/10000
   - Os - Loss: 14.9331 -
71
   mean_absolute_error: 2.6634 - val_loss:
   15.3848 - val_mean_absolute_error: 3.
   0312
72 Epoch 16/10000
73 - 0s - loss: 14.0725 -
   mean_absolute_error: 2.5630 - val_loss:
   14.8925 - val_mean_absolute_error: 2.
   9480
74 Epoch 17/10000
   - 0s - loss: 13.3512
75
```

```
mean_absolute_error: 2.4960 - val loss:
75
   13.9896 - val_mean_absolute_error: 2.
   8303
76 Epoch 18/10000
77 - 0s - loss: 13.0629 -
   mean_absolute_error: 2.4981 - val_loss:
   15.3788 - val_mean_absolute_error: 3.
   1110
78 Epoch 19/10000
79 - 0s - loss: 12.6171 -
   mean_absolute_error: 2.4574 - val_loss:
   13.3599 - val_mean_absolute_error: 2.
   8262
80 Epoch 20/10000
   - 0s - loss: 11.7888 -
81
   mean_absolute_error: 2.3847 - val_loss:
   13.6188 - val_mean_absolute_error: 2.
   8368
82
  Epoch 00020: val_mean_absolute_error
83
   improved from 3.99685 to 2.83678, saving
   model to ./model/model_Epoch0020-
   val_mean_absolute_error2.84.h5
84 Epoch 21/10000
```

```
- 0s - loss: 11.7894 -
85
   mean_absolute_error: 2.3426 - val_loss
    12.8359 - val_mean_absolute_error: 2.
   7281
86 Epoch 22/10000
87 - 0s - loss: 11.2370 -
   mean_absolute_error: 2.2978 - val_loss
   12.7378 - val_mean_absolute_error: 2.
   7909
88 Epoch 23/10000
89 - 0s - loss: 10.9771 -
   mean_absolute_error: 2.2869 - val_loss
   : 12.3347 - val_mean_absolute_error: 2.
   7578
90 Epoch 24/10000
   - 0s - loss: 10.7601 -
91
   mean_absolute_error: 2.2491 - val_loss
    12.3628 - val_mean_absolute_error: 2.
   6097
92 Epoch 25/10000
   - 0s - loss: 10.2933 -
93
   mean_absolute_error: 2.2198 - val_loss
    13.8948 - val_mean_absolute_error: 2.
   7856
```

```
94 Epoch 26/10000
    - 0s - loss: 10.3395 -
95
    mean_absolute_error: 2.1852 - val_loss
      12.5965 - val_mean_absolute_error: 2.
    6553
96 Epoch 27/10000
97 - 0s - loss: 10.0387 -
    mean_absolute_error: 2.1834 - val_loss
     12.6053 - val_mean_absolute_error: 2.
    7038
98 Epoch 28/10000
    - 0s - loss: 9.9576 -
99
    mean_absolute_error: 2.1891 - val_loss
      12.0698 - val_mean_absolute_error: 2.
    6495
100 Epoch 29/10000
    - 0s - loss: 9.5338 -
101 l
    mean_absolute_error: 2.1261 - val_loss
     12.7163 - val_mean_absolute_error: 2.
    8390
102 Epoch 30/10000
    - 0s - loss: 9.3056 -
103 l
    mean_absolute_error: 2.1012 - val_loss
     11.6176 - val_mean_absolute_error: 2.
```

```
103 6176
104
```

105 Epoch 00030: val_mean_absolute_error
improved from 2.83678 to 2.61763,
saving model to ./model/model_Epoch0030
-val_mean_absolute_error2.62.h5

106 Epoch 31/10000

107 - 0s - loss: 9.5487 - mean_absolute_error: 2.1249 - val_loss : 12.1098 - val_mean_absolute_error: 2.6561

108 Epoch 32/10000

109 - 0s - loss: 8.9365 - mean_absolute_error: 2.0343 - val_loss : 15.7893 - val_mean_absolute_error: 2.8930

110 Epoch 33/10000

111 - 0s - loss: 9.1733 - mean_absolute_error: 2.1379 - val_loss : 12.4831 - val_mean_absolute_error: 2.5939

112 Epoch 34/10000

113 - Os - Loss: 8.7832 - mean_absolute_error: 2.0653 - val_loss

```
12.4745 - val_mean_absolute_error: 2.
113
    6719
114 Epoch 35/10000
115 - 0s - loss: 8.9244 -
    mean_absolute_error: 2.0582 - val_loss
    : 12.4537 - val_mean_absolute_error: 2.
    5946
116 Epoch 36/10000
117 - 0s - loss: 8.5267 -
    mean_absolute_error: 2.0779 - val_loss
    12.7375 - val_mean_absolute_error: 2.
    7257
118 Epoch 37/10000
119 - 0s - loss: 8.6095 -
    mean_absolute_error: 2.0246 - val_loss
      12.5228 - val_mean_absolute_error: 2.
    5267
120 Epoch 38/10000
    - 0s - loss: 8.6112 -
121
    mean_absolute_error: 2.0274 - val_loss
     12.5877 - val_mean_absolute_error: 2.
    5362
122 Epoch 39/10000
123 - 0s - loss: 8.4096 -
```

```
123 mean_absolute_error: 1.9910 - val_loss
      12.5051 - val_mean_absolute_error: 2.
    5184
124 Epoch 40/10000
    - 0s - loss: 8.1227 -
125 l
    mean_absolute_error: 1.9826 - val_loss
      12.3537 - val_mean_absolute_error: 2.
    5608
126
127 Epoch 00040: val_mean_absolute_error
    improved from 2.61763 to 2.56082,
    saving model to ./model/model_Epoch0040
    -val_mean_absolute_error2.56.h5
128 Epoch 41/10000
    - 0s - loss: 8.0297
129
    mean_absolute_error: 1.9396 - val_loss
      12.1463 - val_mean_absolute_error: 2.
    5982
130 Epoch 42/10000
    - Os - Loss: 8.2348 -
131
    mean_absolute_error: 1.9562 - val_loss
     12.9758 - val_mean_absolute_error: 2.
    5625
132 Epoch 43/10000
```

```
- 0s - loss: 7.9648 -
133
    mean_absolute_error: 1.9833 - val_loss
      12.0786 - val_mean_absolute_error: 2.
    5746
134 Epoch 44/10000
    - 0s - loss: 7.9476 -
135 l
    mean_absolute_error: 1.9209 - val_loss
    15.3071 - val_mean_absolute_error: 2.
    7191
136 Epoch 45/10000
137 - 0s - loss: 7.8115 -
    mean_absolute_error: 1.9458 - val_loss
    : 12.3172 - val_mean_absolute_error: 2.
    6178
138 Epoch 46/10000
    - 0s - loss: 7.7519 -
139
    mean_absolute_error: 1.8970 - val_loss
     13.3924 - val_mean_absolute_error: 2.
    6245
140 Epoch 47/10000
    - 0s - loss: 7.6907 -
141
    mean_absolute_error: 1.9203 - val_loss
      12.5278 - val_mean_absolute_error: 2.
    4699
```

```
142 Epoch 48/10000
    - 0s - loss: 7.4754 -
143
    mean_absolute_error: 1.8890 - val_loss
      12.3038 - val_mean_absolute_error: 2.
    5601
144 Epoch 49/10000
145 - 0s - loss: 7.6362 -
    mean_absolute_error: 1.8887 - val_loss
      12.2313 - val_mean_absolute_error: 2.
    5350
146 Epoch 50/10000
    - 0s - loss: 7.5599 -
147
    mean_absolute_error: 1.8726 - val_loss
      11. 9923 - val_mean_absolute_error: 2.
    4585
148
149 Epoch 00050: val_mean_absolute_error
    improved from 2.56082 to 2.45854,
    saving model to ./model/model_Epoch0050
    -val_mean_absolute_error2.46.h5
150 Epoch 51/10000
    - Os - Loss: 7.4957 -
151 l
    mean_absolute_error: 1.8982 - val_loss
     12.4439 - val_mean_absolute_error: 2.
```

```
12.7181 - val_mean_absolute_error: 2.
161
    5833
162 Epoch 57/10000
163 - 0s - loss: 7.1830 -
    mean_absolute_error: 1.8377 - val_loss
    : 12.6467 - val_mean_absolute_error: 2.
    5032
164 Epoch 58/10000
165 l
    - 0s - loss: 6.9233 -
    mean_absolute_error: 1.8006 - val_loss
      12.9391 - val_mean_absolute_error: 2.
    5442
166 Epoch 59/10000
167 - 0s - loss: 6.9152 -
    mean_absolute_error: 1.8035 - val_loss
      14.1281 - val_mean_absolute_error: 2.
    5920
168 Epoch 60/10000
169
    - 0s - loss: 6.6614 -
    mean_absolute_error: 1.7891 - val_loss
     15.5446 - val_mean_absolute_error: 2.
    6221
170
    Epoch 00060: val_mean_absolute_error
171
```

```
171 did not improve from 2.45854
172 Epoch 61/10000
    - 0s - loss: 7.0422 -
173 l
    mean_absolute_error: 1.8260 - val_loss
     12.3304 - val_mean_absolute_error: 2.
    4674
174 Epoch 62/10000
175 - 0s - loss: 6.8601 -
    mean_absolute_error: 1.8219 - val_loss
     12.8567 - val_mean_absolute_error: 2.
    5128
176 Epoch 63/10000
177 - 0s - loss: 6.5729 -
    mean_absolute_error: 1.7427 - val_loss
    16.2805 - val_mean_absolute_error: 2.
    7514
178 Epoch 64/10000
179 - 0s - loss: 6.6873 -
    mean_absolute_error: 1.8112 - val_loss
    : 13.7294 - val_mean_absolute_error: 2.
    6141
180 Epoch 65/10000
181 - 0s - loss: 6.4925 -
    mean_absolute_error: 1.7712 - val_loss
```

```
13.8488 - val_mean_absolute_error: 2.
181
    5839
182 Epoch 66/10000
    - 0s - loss: 6.3370_-
183 l
    mean_absolute_error: 1.7626 - val_loss
    : 12.4611 - val_mean_absolute_error: 2.
    5212
184 Epoch 67/10000
185
    - 0s - loss: 6.4373 -
    mean_absolute_error: 1.7643 - val_loss
    13.0092 - val_mean_absolute_error: 2.
    5384
186 Epoch 68/10000
    - 0s - loss: 6.4051 -
187 I
    mean_absolute_error: 1.7779 - val_loss
     13.3328 - val_mean_absolute_error: 2.
    7080
188 Epoch 69/10000
    - 0s - loss: 6.4513 -
189 l
    mean_absolute_error: 1.7229 - val_loss
     14.7567 - val_mean_absolute_error: 2.
    6862
190 Epoch 70/10000
    - 0s - loss: 6.2459
191
```

```
mean_absolute_error: 1.7464 - val_loss
191
      12.9123 - val_mean_absolute_error: 2.
    5536
192
193 Epoch 00070: val_mean_absolute_error
    did not improve from 2.45854
194 Epoch 71/10000
    - 0s - loss: 6.1774 -
195 l
    mean_absolute_error: 1.6919 - val_loss
    13.9759 - val_mean_absolute_error: 2.
    5164
196 Epoch 72/10000
197 - 0s - loss: 6.3357 -
    mean_absolute_error: 1.7462 - val_loss
    13.3034 - val_mean_absolute_error: 2.
    5839
198 Epoch 73/10000
    - 0s - loss: 6.1997 -
199
    mean_absolute_error: 1.7343 - val_loss
    : 12.4309 - val_mean_absolute_error: 2.
    4936
200 Epoch 74/10000
    - 0s - loss: 6.0883 -
201
    mean_absolute_error: 1.6695 - val_loss
```

```
13.0401 - val_mean_absolute_error: 2.
201
    4979
202 Epoch 75/10000
    - 0s - loss: 6.2554_-
203
    mean_absolute_error: 1.7133 - val_loss
    : 13.3727 - val_mean_absolute_error: 2.
    4556
204 Epoch 76/10000
    - 0s - loss: 6.0023 -
205
    mean_absolute_error: 1.6996 - val_loss
     12.8556 - val_mean_absolute_error: 2.
    4618
206 Epoch 77/10000
207 - 0s - loss: 5.9766 -
    mean_absolute_error: 1.6278 - val_loss
     13.0897 - val_mean_absolute_error: 2.
    4513
208 Epoch 78/10000
    - 0s - loss: 6.0793 -
209
    mean_absolute_error: 1.6577 - val_loss
      12.8823 - val_mean_absolute_error: 2.
    4754
210 Epoch 79/10000
    - 0s - loss: 5.7519
211 I
```

```
211 mean_absolute_error: 1.6324 - val_loss
      13.3224 - val_mean_absolute_error: 2.
    6205
212 Epoch 80/10000
    - 0s - loss: 5.7596 -
213 I
    mean_absolute_error: 1.6362 - val_loss
      12. 9500 - val_mean_absolute_error: 2.
    5735
214
215 Epoch 00080: val_mean_absolute_error
    did not improve from 2.45854
216 Epoch 81/10000
217 - 0s - loss: 5.7959 -
    mean_absolute_error: 1.6462 - val_loss
    13.0019 - val_mean_absolute_error: 2.
    6597
218 Epoch 82/10000
    - 0s - loss: 5.7090 -
219 I
    mean_absolute_error: 1.6289 - val_loss
     12.8836 - val_mean_absolute_error: 2.
    5374
220 Epoch 83/10000
    - 0s - loss: 5.6286 -
221
    mean_absolute_error: 1.6220 - val_loss
```

```
13.6477 - val_mean_absolute_error: 2.
221
    4625
222 Epoch 84/10000
223 - 0s - loss: 5.7457 -
    mean_absolute_error: 1.6571 - val_loss
    : 12.6499 - val_mean_absolute_error: 2.
    4417
224 Epoch 85/10000
    - 0s - loss: 5.6964 -
225
    mean_absolute_error: 1.6348 - val_loss
     12.9228 - val_mean_absolute_error: 2.
    4512
226 Epoch 86/10000
227 - 0s - loss: 5.6430 -
    mean_absolute_error: 1.6679 - val_loss
      13.7091 - val_mean_absolute_error: 2.
    4371
228 Epoch 87/10000
    - 0s - loss: 5.5740 -
229
    mean_absolute_error: 1.6226 - val_loss
      13.9593 - val_mean_absolute_error: 2.
    4862
230 Epoch 88/10000
231 - 0s - loss: 5.5570
```

```
231 mean_absolute_error: 1.6255 - val_loss
      13.3627 - val_mean_absolute_error: 2.
    5253
232 Epoch 89/10000
    - 0s - loss: 5.5249 -
233
    mean_absolute_error: 1.6002 - val_loss
      13.3536 - val_mean_absolute_error: 2.
    4942
234 Epoch 90/10000
235
    - 0s - loss: 5.4470 -
    mean_absolute_error: 1.5859 - val_loss
      13.5879 - val_mean_absolute_error: 2.
    4849
236
237 Epoch 00090: val_mean_absolute_error
    did not improve from 2.45854
238 Epoch 91/10000
    - 0s - loss: 5.3638
239
    mean_absolute_error: 1.6028 - val_loss
    : 14.8538 - val_mean_absolute_error: 2.
    8569
240 Epoch 92/10000
    - 0s - loss: 5.4877 -
241
    mean_absolute_error: 1.6167 - val_l<u>oss</u>
```

```
12.7267 - val_mean_absolute_error: 2.
241
    5878
242 Epoch 93/10000
    - 0s - loss: 5.2634 -
243 I
    mean_absolute_error: 1.5778 - val_loss
     14.3206 - val_mean_absolute_error: 2.
    4848
244 Epoch 94/10000
    - 0s - loss: 5.2590 -
245
    mean_absolute_error: 1.5730 - val_loss
      13.5896 - val_mean_absolute_error: 2.
    6795
246 Epoch 95/10000
247 - 0s - loss: 5.1998 -
    mean_absolute_error: 1.5744 - val_loss
     13.1699 - val_mean_absolute_error: 2.
    4703
248 Epoch 96/10000
    - 0s - loss: 4.9457 -
249 I
    mean_absolute_error: 1.5331 - val_loss
      13.9732 - val_mean_absolute_error: 2.
    4181
250 Epoch 97/10000
    - 0s - loss: 5.2812
251
```

```
251 mean_absolute_error: 1.5826 - val_loss
      12.9996 - val_mean_absolute_error: 2.
    5964
252 Epoch 98/10000
    - 0s - loss: 5.3232 -
253
    mean_absolute_error: 1.5817 - val_loss
      12.7469 - val_mean_absolute_error: 2.
    4761
254 Epoch 99/10000
    - 0s - loss: 4.9620 -
255
    mean_absolute_error: 1.5284 - val_loss
      13.1238 - val_mean_absolute_error: 2.
    4643
256 Epoch 100/10000
    - 0s - loss: 5.1833 -
257 l
    mean_absolute_error: 1.5380 - val_loss
     14.0637 - val_mean_absolute_error: 2.
    4597
258
   Epoch 00100: val_mean_absolute_error
259
    did not improve from 2.45854
260 Epoch 101/10000
    - 0s - loss: 5.0293 -
261
    mean_absolute_error: 1.5305 - val_loss
```

```
15.5031 - val_mean_absolute_error: 2.
261
    5447
262 Epoch 102/10000
263 - 0s - loss: 4.9056 -
    mean_absolute_error: 1.5570 - val_loss
      15.6589 - val_mean_absolute_error: 2.
    5277
264 Epoch 103/10000
265
    - 0s - loss: 5.0046 -
    mean_absolute_error: 1.5583 - val_loss
      14.5436 - val_mean_absolute_error: 2.
    4849
266 Epoch 104/10000
267 - 0s - loss: 5.0450 -
    mean_absolute_error: 1.5547 - val_loss
     13.1390 - val_mean_absolute_error: 2.
    4331
268 Epoch 105/10000
    - 0s - loss: 4.7754 -
269
    mean_absolute_error: 1.5188 - val_loss
      13.7144 - val_mean_absolute_error: 2.
    4609
270 Epoch 106/10000
    - 0s - loss: 5.0500 -
271 l
```

```
271 mean_absolute_error: 1.5471 - val_loss
      14.8180 - val_mean_absolute_error: 2.
    5740
272 Epoch 107/10000
    - Os - Loss: 4.8728 -
273 l
    mean_absolute_error: 1.4891 - val_loss
      13.8454 - val_mean_absolute_error: 2.
    4251
274 Epoch 108/10000
275 - 0s - loss: 4.7332 -
    mean_absolute_error: 1.4691 - val_loss
      13.6337 - val_mean_absolute_error: 2.
    6243
276 Epoch 109/10000
277 - 0s - loss: 4.6060 -
    mean_absolute_error: 1.4767 - val_loss
      13.6645 - val_mean_absolute_error: 2.
    4436
278 Epoch 110/10000
279 - 0s - loss: 4.6188 -
    mean_absolute_error: 1.4979 - val_loss
     12.9895 - val_mean_absolute_error: 2.
    4880
```

280

```
281 Epoch 00110: val_mean_absolute_error
    did not improve from 2.45854
282 Epoch 111/10000
    - 0s - loss: 4.7260 -
283
    mean_absolute_error: 1.5002 - val_loss
     14.2647 - val_mean_absolute_error: 2.
    5062
284 Epoch 112/10000
285
    - 0s - loss: 4.8011 -
    mean_absolute_error: 1.4700 - val_loss
      13.2491 - val_mean_absolute_error: 2.
    5159
286 Epoch 113/10000
287 - 0s - loss: 4.7271 -
    mean_absolute_error: 1.4957 - val_loss
      12.8246 - val_mean_absolute_error: 2.
    5318
288 Epoch 114/10000
    - 0s - loss: 4.6512 -
289
    mean_absolute_error: 1.4513 - val_loss
      13.4932 - val_mean_absolute_error: 2.
    4297
290 Epoch 115/10000
    - 0s - loss: 4.6407 -
291
```

```
291 mean_absolute_error: 1.4448 - val_loss
      13.5309 - val_mean_absolute_error: 2.
    4035
292 Epoch 116/10000
    - 0s - loss: 4.4667 -
293
    mean_absolute_error: 1.4160 - val_loss
      14.9832 - val_mean_absolute_error: 2.
    5410
294 Epoch 117/10000
295 - 0s - loss: 4.4219 -
    mean_absolute_error: 1.4754 - val_loss
     13.7533 - val_mean_absolute_error: 2.
    3929
296 Epoch 118/10000
    - Os - Loss: 4.5402 -
297 I
    mean_absolute_error: 1.4637 - val_loss
     13.8223 - val_mean_absolute_error: 2.
    4106
298 Epoch 119/10000
    - 0s - loss: 4.5026 -
299 I
    mean_absolute_error: 1.4735 - val_loss
     13.3173 - val_mean_absolute_error: 2.
    4555
300 Epoch 120/10000
```

```
- 0s - loss: 4.4632 -
301
    mean_absolute_error: 1.4456 - val_loss
      13.2312 - val_mean_absolute_error: 2.
    4173
302
   Epoch 00120: val_mean_absolute_error
303
    improved from 2.45854 to 2.41731,
    saving model to ./model/model_Epoch0120
    -val_mean_absolute_error2.42.h5
304 Epoch 121/10000
    - Os - loss: 4.4761 -
305 I
    mean_absolute_error: 1.4250 - val_loss
      16.6304 - val_mean_absolute_error: 2.
    7050
306 Epoch 122/10000
    - 0s - loss: 4.6561 -
307
    mean_absolute_error: 1.4688 - val_loss
      15.6400 - val_mean_absolute_error: 2.
    5128
308 Epoch 123/10000
    - 0s - loss: 4.3071 -
309
    mean_absolute_error: 1.4362 - val_loss
      13.9746 - val_mean_absolute_error: 2.
    6208
```

```
310 Epoch 124/10000
    - 0s - loss: 4.3706 -
311
    mean_absolute_error: 1.4417 - val_loss
     13.5181 - val_mean_absolute_error: 2.
    5104
312 Epoch 125/10000
313 - 0s - loss: 4.2669 -
    mean_absolute_error: 1.4170 - val_loss
     13.7394 - val_mean_absolute_error: 2.
    4933
314 Epoch 126/10000
315 - 0s - loss: 4.2876 -
    mean_absolute_error: 1.4605 - val_loss
     13.5563 - val_mean_absolute_error: 2.
    3906
316 Epoch 127/10000
317 - 0s - loss: 4.4309 -
    mean_absolute_error: 1.4361 - val_loss
     14.3062 - val_mean_absolute_error: 2.
    4536
318 Epoch 128/10000
319 - 0s - loss: 4.0691
    mean_absolute_error: 1.3975 - val_loss
     13.7712 - val_mean_absolute_error: 2.
```

```
File - boston01
319 4211
320 Epoch 129/10000
     - 0s - loss: 4.1112 -
321
    mean_absolute_error: 1.4281 - val_loss
      13.4013 - val_mean_absolute_error: 2.
    4146
322 Epoch 130/10000
     - 0s - loss: 4.2188 -
323
    mean_absolute_error: 1.4310 - val_loss
      14.9179 - val_mean_absolute_error: 2.
    5752
324
325 Epoch 00130: val_mean_absolute_error
    did not improve from 2.41731
326 Epoch 131/10000
     - 0s - loss: 4.1455 -
327
    mean_absolute_error: 1.4184 - val_loss
      13.6284 - val_mean_absolute_error: 2.
    4262
328 Epoch 132/10000
     - 0s - loss: 4.1086 -
329
    mean_absolute_error: 1.3804 - val_loss
     14.6837 - val_mean_absolute_error: 2.
```

```
330 Epoch 133/10000
    - 0s - loss: 4.0551 -
331
    mean_absolute_error: 1.4008 - val_loss
      14.8289 - val_mean_absolute_error: 2.
    4647
332 Epoch 134/10000
333 - 0s - loss: 4.0402 -
    mean_absolute_error: 1.3600 - val_loss
      13.2224 - val_mean_absolute_error: 2.
    3943
334 Epoch 135/10000
335 - 0s - loss: 4.0246 -
    mean_absolute_error: 1.4158 - val_loss
     13.7612 - val_mean_absolute_error: 2.
    5837
336 Epoch 136/10000
337 - Os - Loss: 4.1324 -
    mean_absolute_error: 1.3809 - val_loss
     13.3615 - val_mean_absolute_error: 2.
    4132
338 Epoch 137/10000
    - 0s - loss: 4.1333
339
    mean_absolute_error: 1.4200 - val_loss
     13.4753 - val_mean_absolute_error: 2.
```

```
File - boston01
    3824
339
340 Epoch 138/10000
     - 0s - loss: 4.1006 -
341
    mean_absolute_error: 1.4123 - val_loss
      13.2317 - val_mean_absolute_error: 2.
    5027
342 Epoch 139/10000
343 - 0s - loss: 3.9231
    mean_absolute_error: 1.3650 - val_loss
      13.2198 - val_mean_absolute_error: 2.
    4040
344 Epoch 140/10000
     - 0s - loss: 3.9884 -
345 l
    mean_absolute_error: 1.3936 - val_loss
      13.6991 - val_mean_absolute_error: 2.
346
347 Epoch 00140: val_mean_absolute_error
    did not improve from 2.41731
348 Epoch 141/10000
     - 0s - loss: 3.8466 -
349 l
    mean_absolute_error: 1.3519 - val_loss
      13.4792 - val_mean_absolute_error: 2.
    4831
```

```
350 Epoch 142/10000
351
    - 0s - loss: 3.7813 -
    mean_absolute_error: 1.3743 - val_loss
      14.5342 - val_mean_absolute_error: 2.
    4961
352 Epoch 143/10000
353 - 0s - loss: 3.9038 -
    mean_absolute_error: 1.3956 - val_loss
      13.9396 - val_mean_absolute_error: 2.
    4406
354 Epoch 144/10000
355
    - 0s - loss: 3.9363
    mean_absolute_error: 1.3592 - val_loss
     13.8653 - val_mean_absolute_error: 2.
    3873
356 Epoch 145/10000
357 - Os - Loss: 3.6789 -
    mean_absolute_error: 1.3423 - val_loss
     14.0408 - val_mean_absolute_error: 2.
    6104
358 Epoch 146/10000
    - 0s - loss: 3.9000
359
    mean_absolute_error: 1.3731 - val_loss
     14.4238 - val_mean_absolute_error: 2.
```

```
File - boston01
359 4165
360 Epoch 147/10000
     - 0s - Loss: 4.1753
361
    mean_absolute_error: 1.4052 - val_loss
     13.6717 - val_mean_absolute_error: 2.
    3827
362 Epoch 148/10000
     - 0s - loss: 3.6750 -
363 l
    mean_absolute_error: 1.2982 - val_loss
      14.3248 - val_mean_absolute_error: 2.
    5185
364 Epoch 149/10000
365 I
     - 0s - loss: 3.8542 -
    mean_absolute_error: 1.3396 - val_loss
      15.4329 - val_mean_absolute_error: 2.
    4428
366 Epoch 150/10000
     - Os - loss: 3.7479 -
367 l
    mean_absolute_error: 1.3033 - val_loss
      13.8370 - val_mean_absolute_error: 2.
    4211
368
    Epoch 00150: val_mean_absolute_error
    did not improve from 2.41731
```

```
370 Epoch 151/10000
    - 0s - loss: 3.7807 -
371
    mean_absolute_error: 1.3284 - val_loss
      14.6462 - val_mean_absolute_error: 2.
    3955
372 Epoch 152/10000
373 - 0s - loss: 3.7666 -
    mean_absolute_error: 1.3265 - val_loss
      13.4395 - val_mean_absolute_error: 2.
    4403
374 Epoch 153/10000
375 - 0s - loss: 3.8173 -
    mean_absolute_error: 1.3477 - val_loss
     13.7166 - val_mean_absolute_error: 2.
    3924
376 Epoch 154/10000
377 - 0s - loss: 3.5425 -
    mean_absolute_error: 1.2959 - val_loss
     14.4431 - val_mean_absolute_error: 2.
    6686
378 Epoch 155/10000
    - 0s - loss: 3.7825
379 I
    mean_absolute_error: 1.3310 - val_loss
     13.8088 - val_mean_absolute_error: 2.
```

```
File - boston01
    4688
379
380 Epoch 156/10000
     - 0s - loss: 3.6538
381
    mean_absolute_error: 1.3102 - val_loss
      13.7611 - val_mean_absolute_error: 2.
    4475
382 Epoch 157/10000
     - 0s - loss: 3.7245 -
383
    mean_absolute_error: 1.3132 - val_loss
      15.0568 - val_mean_absolute_error:
    4247
384 Epoch 158/10000
385 l
     - 0s - loss: 3.6386 -
    mean_absolute_error: 1.3548 - val_loss
      15.4886 - val_mean_absolute_error: 2.
    5458
386 Epoch 159/10000
387 - Os - Loss: 3.7774 -
    mean_absolute_error: 1.3810 - val_loss
    : 14.2584 - val_mean_absolute_error: 2.
    3867
388 Epoch 160/10000
     - 0s - loss: 3.6316 -
389
    mean_absolute_error: 1.3275 - val_loss
```

```
13.9726 - val_mean_absolute_error: 2.
389
    4078
390
391 Epoch 00160: val_mean_absolute_error
    improved from 2.41731 to 2.40778,
    saving model to ./model/model_Epoch0160
    -val_mean_absolute_error2.41.h5
392 Epoch 161/10000
393
    - 0s - loss: 3.6482 -
    mean_absolute_error: 1.2964 - val_loss
      15.4859 - val_mean_absolute_error: 2.
    4212
394 Epoch 162/10000
    - 0s - loss: 3.5675 -
395
    mean_absolute_error: 1.2957 - val_loss
      15.5034 - val_mean_absolute_error: 2.
    3820
396 Epoch 163/10000
    - 0s - loss: 3.6060 -
397
    mean_absolute_error: 1.2962 - val_loss
      15.0549 - val_mean_absolute_error: 2.
    4616
398 Epoch 164/10000
    - 0s - loss: 3.4726
399
```

```
mean_absolute_error: 1.3086 - val_loss
399
      14.9061 - val_mean_absolute_error: 2.
    3588
400 Epoch 165/10000
    - 0s - loss: 3.6794 -
401
    mean_absolute_error: 1.3153 - val_loss
      13. 7839 - val_mean_absolute_error: 2.
    4864
402 Epoch 166/10000
403 - 0s - loss: 3.7371 -
    mean_absolute_error: 1.3539 - val_loss
     13.9673 - val_mean_absolute_error: 2.
    3452
404 Epoch 167/10000
    - 0s - loss: 3.3578 -
405 l
    mean_absolute_error: 1.2785 - val_loss
      14.4485 - val_mean_absolute_error: 2.
    4760
406 Epoch 168/10000
407 - 0s - loss: 3.3720 -
    mean_absolute_error: 1.2868 - val_loss
     14.1168 - val_mean_absolute_error: 2.
    4263
408 Epoch 169/10000
```

```
- 0s - loss: 3.3311 -
409
    mean_absolute_error: 1.2700 - val_loss
      14.1819 - val_mean_absolute_error: 2.
    4602
410 Epoch 170/10000
411 - 0s - loss: 3.7841 -
    mean_absolute_error: 1.3124 - val_loss
      16.5750 - val_mean_absolute_error: 2.
    5096
412
413 Epoch 00170: val_mean_absolute_error
    did not improve from 2.40778
414 Epoch 171/10000
    - 0s - loss: 3.5035 -
415 l
    mean_absolute_error: 1.3032 - val_loss
      15.9505 - val_mean_absolute_error: 2.
    4628
416 Epoch 172/10000
    - 0s - loss: 3.4771
417 l
    mean_absolute_error: 1.2604 - val_loss
      13.5665 - val_mean_absolute_error: 2.
    5391
418 Epoch 173/10000
    - 0s - loss: 3.3360
419 I
```

```
419 mean_absolute_error: 1.2582 - val_loss
      15.5843 - val_mean_absolute_error: 2.
    4070
420 Epoch 174/10000
    - 0s - loss: 3.4872 -
421 l
    mean_absolute_error: 1.2901 - val_loss
      14. 3084 - val_mean_absolute_error: 2.
    3939
422 Epoch 175/10000
423 - Os - Loss: 3.4222 -
    mean_absolute_error: 1.2782 - val_loss
     13.7511 - val_mean_absolute_error: 2.
    4232
424 Epoch 176/10000
    - 0s - loss: 3.3319 -
425
    mean_absolute_error: 1.2399 - val_loss
      13.6530 - val_mean_absolute_error: 2.
    4643
426 Epoch 177/10000
427 - 0s - loss: 3.3470 -
    mean_absolute_error: 1.2410 - val_loss
     14.0897 - val_mean_absolute_error: 2.
    4139
428 Epoch 178/10000
```

```
- 0s - loss: 3.1792 -
429
    mean_absolute_error: 1.2286 - val_loss
     14.6261 - val_mean_absolute_error: 2.
    4106
430 Epoch 179/10000
    - 0s - loss: 3.3377 -
431
    mean_absolute_error: 1.2557 - val_loss
     15.8980 - val_mean_absolute_error: 2.
    5232
432 Epoch 180/10000
    - 0s - loss: 3.2160 -
433
    mean_absolute_error: 1.2167 - val loss
      14.7078 - val_mean_absolute_error: 2.
    4482
434
435 Epoch 00180: val_mean_absolute_error
    did not improve from 2.40778
436 Epoch 181/10000
    - 0s - loss: 3.4325 -
437
    mean_absolute_error: 1.2511 - val_loss
      15.5223 - val_mean_absolute_error: 2.
    6207
438 Epoch 182/10000
    - 0s - loss: 3.3135
439
```

```
439 mean_absolute_error: 1.2275 - val_loss
      13.6721 - val_mean_absolute_error: 2.
    4526
440 Epoch 183/10000
    - 0s - loss: 3.2691
441
    mean_absolute_error: 1.1872 - val_loss
      14.4087 - val_mean_absolute_error: 2.
    4031
442 Epoch 184/10000
443 - 0s - loss: 3.1561 -
    mean_absolute_error: 1.2373 - val_loss
     14.4410 - val_mean_absolute_error: 2.
    3893
444 Epoch 185/10000
    - 0s - loss: 3.1449 -
445 l
    mean_absolute_error: 1.2159 - val_loss
      14.0137 - val_mean_absolute_error: 2.
    4724
446 Epoch 186/10000
447 - 0s - loss: 3.1663 -
    mean_absolute_error: 1.2324 - val_loss
     13.9958 - val_mean_absolute_error: 2.
    4142
448 Epoch 187/10000
```

```
- 0s - loss: 3.2256 -
449
    mean_absolute_error: 1.2207 - val_loss
      14.0745 - val_mean_absolute_error: 2.
    3685
450 Epoch 188/10000
    - 0s - loss: 3.1972 -
451
    mean_absolute_error: 1.2269 - val_loss
     15.0055 - val_mean_absolute_error: 2.
    6795
452 Epoch 189/10000
    - 0s - loss: 3.2783 -
453 l
    mean_absolute_error: 1.2509 - val_loss
     14.3020 - val_mean_absolute_error: 2.
    4139
454 Epoch 190/10000
    - 0s - loss: 3.0791 -
455
    mean_absolute_error: 1.1898 - val_loss
     15.0499 - val_mean_absolute_error: 2.
    3961
456
    Epoch 00190: val_mean_absolute_error
457
    improved from 2.40778 to 2.39609,
    saving model to ./model/model_Epoch0190
    -val_mean_absolute_error2.40.h5
```

460 Epoch 192/10000

8008

461 - 0s - loss: 3.4531 - mean_absolute_error: 1.3084 - val_loss : 14.7711 - val_mean_absolute_error: 2.5330

15.3679 - val_mean_absolute_error: 2.

462 Epoch 193/10000

463 - 0s - loss: 3.1292 - mean_absolute_error: 1.2138 - val_loss : 14.5937 - val_mean_absolute_error: 2.4041

464 Epoch 194/10000

465 - Os - Loss: 3.0802 - mean_absolute_error: 1.1800 - val_loss: 14.6046 - val_mean_absolute_error: 2.4718

466 Epoch 195/10000

467 - 0s - loss: 2.9206 - mean_absolute_error: 1.1623 - val_loss : 14.9742 - val_mean_absolute_error: 2.

```
File - boston01
467 3340
468 Epoch 196/10000
469 - 0s - loss: 3.0579 -
    mean_absolute_error: 1.2232 - val_loss
     14.2280 - val_mean_absolute_error: 2.
    3048
470 Epoch 197/10000
471 - 0s - loss: 3.2301 -
    mean_absolute_error: 1.2337 - val_loss
     13.9735 - val_mean_absolute_error: 2.
    3674
472 Epoch 198/10000
473 - 0s - loss: 3.0111 -
    mean_absolute_error: 1.1821 - val_loss
     16.7211 - val_mean_absolute_error: 2.
    4829
474 Epoch 199/10000
475 - 0s - loss: 3.1437 -
    mean_absolute_error: 1.2537 - val_loss
      14.5429 - val_mean_absolute_error: 2.
    4753
476 Epoch 200/10000
477 - 0s - loss: 2.9201 -
    mean_absolute_error: 1.1577 - val_loss
```

```
14.4668 - val_mean_absolute_error: 2.
477
    5071
478
479 Epoch 00200: val_mean_absolute_error
    did not improve from 2.39609
480 Epoch 201/10000
    - 0s - loss: 2.8936
481
    mean_absolute_error: 1.2036 - val_loss
      15.0156 - val_mean_absolute_error: 2.
    7976
482 Epoch 202/10000
    - 0s - loss: 3.0635 -
483
    mean_absolute_error: 1.1905 - val_loss
      15. 3475 - val_mean_absolute_error: 2.
    4586
484 Epoch 203/10000
    - 0s - loss: 2.8836 -
485 l
    mean_absolute_error: 1.2086 - val_loss
      14.6499 - val_mean_absolute_error: 2.
    4464
486 Epoch 204/10000
    - 0s - loss: 3.0110 -
487
    mean_absolute_error: 1.2234 - val_loss
     15.2639 - val_mean_absolute_error: 2.
```

```
File - boston01
487 5076
488 Epoch 205/10000
489 - 0s - loss: 3.0484
    mean_absolute_error: 1.1808 - val_loss
     15.3062 - val_mean_absolute_error: 2.
    3934
490 Epoch 206/10000
491 - 0s - loss: 2.9857 -
    mean_absolute_error: 1.1822 - val_loss
     14.4578 - val_mean_absolute_error: 2.
    4569
492 Epoch 207/10000
493 - 0s - loss: 2.9652 -
    mean_absolute_error: 1.1830 - val_loss
     15.5116 - val_mean_absolute_error: 2.
    4508
494 Epoch 208/10000
495 - 0s - loss: 3.0027 -
    mean_absolute_error: 1.1728 - val_loss
    : 16.9804 - val_mean_absolute_error: 2.
    5010
496 Epoch 209/10000
497 - 0s - loss: 2.8897 -
    mean_absolute_error: 1.1776 - val_loss
```

```
14.4572 - val_mean_absolute_error: 2.
497
    3800
498 Epoch 210/10000
    - 0s - loss: 2.9027 -
499
    mean_absolute_error: 1.1639 - val_loss
     14.3953 - val_mean_absolute_error: 2.
    5886
500
   Epoch 00210: val_mean_absolute_error
501
    did not improve from 2.39609
502 Epoch 211/10000
    - 0s - loss: 2.8137 -
503 l
    mean_absolute_error: 1.1649 - val_loss
      16.7752 - val_mean_absolute_error: 2.
    4754
504 Epoch 212/10000
505 - 0s - loss: 2.8919 -
    mean_absolute_error: 1.1783 - val_loss
     14.8504 - val_mean_absolute_error: 2.
    6328
506 Epoch 213/10000
507 - 0s - loss: 3.0066 -
    mean_absolute_error: 1.1837 - val_loss
     14.8868 - val_mean_absolute_error: 2.
```

```
14.2837 - val_mean_absolute_error: 2.
517
    3787
518 Epoch 219/10000
    - 0s - loss: 2.7011 -
519 l
    mean_absolute_error: 1.1411 - val_loss
    : 17.6959 - val_mean_absolute_error: 2.
    6283
520 Epoch 220/10000
521
    - 0s - loss: 2.7318 -
    mean_absolute_error: 1.1455 - val_loss
     14.2764 - val_mean_absolute_error: 2.
    3704
522
523 Epoch 00220: val_mean_absolute_error
    improved from 2.39609 to 2.37044,
    saving model to ./model/model_Epoch0220
    -val_mean_absolute_error2.37.h5
524 Epoch 221/10000
    - 0s - loss: 2.6138 -
525
    mean_absolute_error: 1.1449 - val_loss
      14.9864 - val_mean_absolute_error: 2.
    3624
526 Epoch 222/10000
    - 0s - loss: 2.6574
527 l
```

```
527 mean_absolute_error: 1.1180 - val_loss
      16.6343 - val_mean_absolute_error: 2.
    3688
528 Epoch 223/10000
    - 0s - loss: 2.8195 -
529
    mean_absolute_error: 1.1688 - val_loss
     15.1107 - val_mean_absolute_error: 2.
    3773
530 Epoch 224/10000
531 - 0s - loss: 2.7440 -
    mean_absolute_error: 1.1254 - val_loss
     15.2954 - val_mean_absolute_error: 2.
    3837
532 Epoch 225/10000
    - 0s - loss: 2.7820 -
533
    mean_absolute_error: 1.1146 - val_loss
     15.2769 - val_mean_absolute_error: 2.
    6157
534 Epoch 226/10000
535 - 0s - loss: 2.6032 -
    mean_absolute_error: 1.1488 - val_loss
     14.2633 - val_mean_absolute_error: 2.
    3651
536 Epoch 227/10000
```

```
- 0s - loss: 2.7146 -
537
    mean_absolute_error: 1.1339 - val_loss
      17.8000 - val_mean_absolute_error: 2.
    4554
538 Epoch 228/10000
    - 0s - loss: 2.7311 -
539
    mean_absolute_error: 1.1468 - val_loss
    15.5700 - val_mean_absolute_error: 2.
    3963
540 Epoch 229/10000
541 - 0s - loss: 2.5778 -
    mean_absolute_error: 1.1225 - val_loss
    : 15.2746 - val_mean_absolute_error: 2.
    3713
542 Epoch 230/10000
543
    - 0s - loss: 2.7418 -
    mean_absolute_error: 1.1692 - val_loss
     15.0234 - val_mean_absolute_error: 2.
    3743
544
   Epoch 00230: val_mean_absolute_error
545
    did not improve from 2.37044
546 Epoch 231/10000
    - 0s - loss: 2.6191
547 I
```

```
547 mean_absolute_error: 1.1256 - val_loss
      15.2519 - val_mean_absolute_error: 2.
    4820
548 Epoch 232/10000
    - 0s - loss: 2.7957 -
549 l
    mean_absolute_error: 1.1661 - val_loss
      14. 9350 - val_mean_absolute_error: 2.
    3477
550 Epoch 233/10000
551 - 0s - loss: 2.5147 -
    mean_absolute_error: 1.1031 - val_loss
     15.3569 - val_mean_absolute_error: 2.
    7102
552 Epoch 234/10000
    - 0s - loss: 2.6380 -
553
    mean_absolute_error: 1.1422 - val_loss
      14.9703 - val_mean_absolute_error: 2.
    3754
554 Epoch 235/10000
555 - 0s - loss: 2.6223 -
    mean_absolute_error: 1.1284 - val_loss
     15.6622 - val_mean_absolute_error: 2.
    3686
556 Epoch 236/10000
```

```
- 0s - loss: 2.5740 -
557
    mean_absolute_error: 1.1127 - val_loss
      14.2099 - val_mean_absolute_error: 2.
    4605
558 Epoch 237/10000
559 - Os - Loss: 2.5873 -
    mean_absolute_error: 1.1246 - val_loss
    : 15.8377 - val_mean_absolute_error: 2.
    3912
560 Epoch 238/10000
561 - 0s - loss: 2.7348 -
    mean_absolute_error: 1.1609 - val_loss
    : 14.4543 - val_mean_absolute_error: 2.
    3517
562 Epoch 239/10000
    - 0s - loss: 2.4589 -
563
    mean_absolute_error: 1.0827 - val_loss
    14.9896 - val_mean_absolute_error: 2.
    3719
564 Epoch 240/10000
    - 0s - loss: 2.4529 -
565 l
    mean_absolute_error: 1.0630 - val_loss
     15.6208 - val_mean_absolute_error: 2.
    3508
```

```
566
```

```
Epoch 00240: val_mean_absolute_error
567
    improved from 2.37044 to 2.35075,
    saving model to ./model/model_Epoch0240
    -val_mean_absolute_error2.35.h5
568 Epoch 241/10000
    - 0s - loss: 2.6008 -
569 I
    mean_absolute_error: 1.1054 - val_loss
      15.1442 - val_mean_absolute_error: 2.
    5803
570 Epoch 242/10000
    - 0s - loss: 2.5024 -
571 l
    mean_absolute_error: 1.0556 - val_loss
      16. 2679 - val_mean_absolute_error: 2.
    4531
572 Epoch 243/10000
573 - 0s - loss: 2.5392 -
    mean_absolute_error: 1.1391 - val_loss
     15.8161 - val_mean_absolute_error: 2.
    3862
574 Epoch 244/10000
    - 0s - loss: 2.5439
575 l
    mean_absolute_error: 1.1179 - val_loss
     15.7646 - val_mean_absolute_error: 2.
```

```
File - boston01
575 3813
576 Epoch 245/10000
577 - 0s - loss: 2.5994
    mean_absolute_error: 1.1413 - val_loss
     15.3937 - val_mean_absolute_error: 2.
    4186
578 Epoch 246/10000
579 - 0s - loss: 2.4311 -
    mean_absolute_error: 1.0650 - val_loss
     14.8946 - val_mean_absolute_error: 2.
    4055
580 Epoch 247/10000
581 - 0s - loss: 2.5681 -
    mean_absolute_error: 1.0986 - val_loss
     14.8327 - val_mean_absolute_error: 2.
    4875
582 Epoch 248/10000
583 - Os - Loss: 2.4337 -
    mean_absolute_error: 1.0475 - val_loss
    : 15.8474 - val_mean_absolute_error: 2.
    3294
584 Epoch 249/10000
     - 0s - loss: 2.3942 -
585 l
    mean_absolute_error: 1.0954 - val_loss
```

```
15.0135 - val_mean_absolute_error: 2.
585
    7257
586 Epoch 250/10000
    - 0s - loss: 2.4322 -
587
    mean_absolute_error: 1.1058 - val_loss
      14.9843 - val_mean_absolute_error: 2.
    3462
588
    Epoch 00250: val_mean_absolute_error
589
    improved from 2.35075 to 2.34617,
    saving model to ./model/model_Epoch0250
    -val_mean_absolute_error2.35.h5
590 Epoch 251/10000
    - 0s - loss: 2.4432 -
591
    mean_absolute_error: 1.0795 - val_loss
      15.1566 - val_mean_absolute_error: 2.
    3375
592 Epoch 252/10000
    - 0s - loss: 2.4293 -
593
    mean_absolute_error: 1.1008 - val_loss
      15.0765 - val_mean_absolute_error: 2.
    6591
594 Epoch 253/10000
    - 0s - loss: 2.6142
595
```

```
595 mean_absolute_error: 1.1886 - val_loss
      14.4562 - val_mean_absolute_error: 2.
    5125
596 Epoch 254/10000
597 - 0s - loss: 2.4505 -
    mean_absolute_error: 1.0981 - val_loss
      15.0649 - val_mean_absolute_error: 2.
    3752
598 Epoch 255/10000
599 - 0s - loss: 2.5812 -
    mean_absolute_error: 1.1018 - val_loss
     15.1408 - val_mean_absolute_error: 2.
    3436
600 Epoch 256/10000
    - 0s - loss: 2.2909 -
601 l
    mean_absolute_error: 1.0618 - val_loss
     15.7782 - val_mean_absolute_error: 2.
    4280
602 Epoch 257/10000
    - 0s - loss: 2.5267 -
603
    mean_absolute_error: 1.1237 - val_loss
     15.7746 - val_mean_absolute_error: 2.
    3268
604 Epoch 258/10000
```

```
- 0s - loss: 2.3111 -
605
    mean_absolute_error: 1.0357 - val_loss
      15.1759 - val_mean_absolute_error: 2.
    5407
606 Epoch 259/10000
607 - 0s - loss: 2.4841 -
    mean_absolute_error: 1.0939 - val_loss
    15.6691 - val_mean_absolute_error: 2.
    5940
608 Epoch 260/10000
    - 0s - loss: 2.5196 -
609 I
    mean_absolute_error: 1.0986 - val_loss
     14.4459 - val_mean_absolute_error: 2.
    5220
610
   Epoch 00260: val_mean_absolute_error
    did not improve from 2.34617
612 Epoch 261/10000
    - 0s - loss: 2.3573 -
613 l
    mean_absolute_error: 1.0628 - val_loss
      15.0700 - val_mean_absolute_error: 2.
    7376
614 Epoch 262/10000
    - 0s - loss: 2.3871
615
```

```
615 mean_absolute_error: 1.1054 - val_loss
      14.6402 - val_mean_absolute_error: 2.
    3826
616 Epoch 263/10000
    - 0s - loss: 2.3120 -
617 I
    mean_absolute_error: 1.0613 - val_loss
      15.3542 - val_mean_absolute_error: 2.
    3853
618 Epoch 264/10000
619 - 0s - loss: 2.2637 -
    mean_absolute_error: 1.0607 - val_loss
     14.9011 - val_mean_absolute_error: 2.
    3870
620 Epoch 265/10000
    - 0s - loss: 2.2324 -
621
    mean_absolute_error: 1.0240 - val_loss
     14.7012 - val_mean_absolute_error: 2.
    3817
622 Epoch 266/10000
623 - 0s - loss: 2.3545 -
    mean_absolute_error: 1.0780 - val_loss
      14.7826 - val_mean_absolute_error: 2.
    4492
624 Epoch 267/10000
```

```
- 0s - loss: 2.4608 -
625
    mean_absolute_error: 1.0838 - val_loss
      14.9630 - val_mean_absolute_error: 2.
    5956
626 Epoch 268/10000
627 - 0s - loss: 2.2883 -
    mean_absolute_error: 1.0278 - val_loss
     14.7649 - val_mean_absolute_error: 2.
    5545
628 Epoch 269/10000
    - Os - Loss: 2.1454 -
629
    mean_absolute_error: 1.0071 - val_loss
      14.0932 - val_mean_absolute_error: 2.
    5414
630 Epoch 270/10000
    - 0s - loss: 2.4364 -
631
    mean_absolute_error: 1.0835 - val_loss
      14.7341 - val_mean_absolute_error: 2.
    2787
632
   Epoch 00270: val_mean_absolute_error
633
    improved from 2.34617 to 2.27868,
    saving model to ./model/model_Epoch0270
    -val_mean_absolute_error2.28.h5
```

- : 14.4093 val_mean_absolute_error: 2. 3278
- 636 Epoch 272/10000
- 637 0s loss: 2.1714 mean_absolute_error: 1.0398 val_loss: 14.8482 val_mean_absolute_error: 2.6968
- 638 Epoch 273/10000
- 639 Os Loss: 2.4665 mean_absolute_error: 1.0828 val_loss : 14.4018 val_mean_absolute_error: 2.4534
- 640 Epoch 274/10000
- 641 0s loss: 2.1426 mean_absolute_error: 0.9815 val_loss
 : 15.1314 val_mean_absolute_error: 2.
 5856
- 642 Epoch 275/10000
- 0s loss: 2.3871 mean_absolute_error: 1.0624 val_loss: 15.1847 val_mean_absolute_error: 2.

```
15.8950 - val_mean_absolute_error: 2.
653
    3306
654
655 Epoch 00280: val_mean_absolute_error
    did not improve from 2.27868
656 Epoch 281/10000
657 - 0s - loss: 2.2105 -
    mean_absolute_error: 1.0388 - val_loss
      17.8994 - val_mean_absolute_error: 2.
    4921
658 Epoch 282/10000
    - 0s - loss: 2.0899 -
659
    mean_absolute_error: 1.0078 - val_loss
      17.7121 - val_mean_absolute_error: 2.
    7148
660 Epoch 283/10000
    - 0s - loss: 2.4057 -
661
    mean_absolute_error: 1.0730 - val_loss
     15.2407 - val_mean_absolute_error: 2.
    6461
662 Epoch 284/10000
    - 0s - loss: 2.1966 -
663
    mean_absolute_error: 1.0299 - val_loss
     15.8173 - val_mean_absolute_error: 2.
```

```
File - boston01
663 3053
664 Epoch 285/10000
     - 0s - Loss: 2.2464
665
    mean_absolute_error: 1.0205 - val_loss
     15.0818 - val_mean_absolute_error: 2.
    4386
666 Epoch 286/10000
667 - 0s - loss: 2.1356 -
    mean_absolute_error: 1.0381 - val_loss
      16.1439 - val_mean_absolute_error: 2.
    4709
668 Epoch 287/10000
669 - 0s - loss: 2.2523 -
    mean_absolute_error: 1.0469 - val_loss
     17.3776 - val_mean_absolute_error: 2.
    6685
670 Epoch 288/10000
671 - 0s - loss: 2.3984 -
    mean_absolute_error: 1.0609 - val_loss
    : 17.4644 - val_mean_absolute_error: 2.
    4816
672 Epoch 289/10000
673 - 0s - loss: 2.2076 -
    mean_absolute_error: 1.0211 - val_loss
```

```
14.8777 - val_mean_absolute_error: 2.
673
    4257
674 Epoch 290/10000
    - 0s - loss: 2.1017 -
675
    mean_absolute_error: 1.0165 - val_loss
      15.0907 - val_mean_absolute_error: 2.
    3026
676
    Epoch 00290: val_mean_absolute_error
677
    did not improve from 2.27868
678 Epoch 291/10000
    - 0s - loss: 2.1869 -
679
    mean_absolute_error: 1.0559 - val_loss
      14.0647 - val_mean_absolute_error: 2.
    4907
680 Epoch 292/10000
    - 0s - loss: 2.0737 -
681
    mean_absolute_error: 0.9896 - val_loss
     15.5242 - val_mean_absolute_error: 2.
    2783
682 Epoch 293/10000
    - 0s - loss: 2.3725 -
683
    mean_absolute_error: 1.0535 - val_loss
     15.0866 - val_mean_absolute_error: 2.
```

```
File - boston01
683 2942
684 Epoch 294/10000
     - 0s - loss: 2.0685
685 l
    mean_absolute_error: 0.9988 - val_loss
      14.8761 - val_mean_absolute_error: 2.
    3743
686 Epoch 295/10000
     - 0s - loss: 2.2338 -
687
    mean_absolute_error: 1.0566 - val_loss
     15.0451 - val_mean_absolute_error: 2.
    7630
688 Epoch 296/10000
689 - 0s - loss: 2.4116 -
    mean_absolute_error: 1.0665 - val_loss
     15.9036 - val_mean_absolute_error: 2.
    3368
690 Epoch 297/10000
     - 0s - loss: 2.0992 -
691 I
    mean_absolute_error: 0.9957 - val_loss
    : 14.5505 - val_mean_absolute_error: 2.
    3696
692 Epoch 298/10000
     - 0s - loss: 2.0936 -
693
    mean_absolute_error: 1.0134 - val_loss
```

```
15.2790 - val_mean_absolute_error: 2.
693
    2898
694 Epoch 299/10000
    - 0s - loss: 2.1483 -
695
    mean_absolute_error: 1.0230 - val_loss
     14.8111 - val_mean_absolute_error: 2.
    4009
696 Epoch 300/10000
697
    - 0s - loss: 2.1265 -
    mean_absolute_error: 1.0240 - val_loss
      14.7192 - val_mean_absolute_error: 2.
    2983
698
   Epoch 00300: val_mean_absolute_error
699
    did not improve from 2.27868
700 Epoch 301/10000
701 - 0s - loss: 2.2190 -
    mean_absolute_error: 1.0188 - val_loss
     14.4182 - val_mean_absolute_error: 2.
    3559
702 Epoch 302/10000
703 - 0s - loss: 2.1514 -
    mean_absolute_error: 0.9979 - val_loss
     14.3621 - val_mean_absolute_error: 2.
```

```
File - boston01
703 4411
704 Epoch 303/10000
     - 0s - loss: 2.0215 -
705
    mean_absolute_error: 1.0100 - val_loss
     14.2522 - val_mean_absolute_error: 2.
    4251
706 Epoch 304/10000
707 - 0s - loss: 1.9900 -
    mean_absolute_error: 0.9877 - val_loss
     14.7882 - val_mean_absolute_error: 2.
    3899
708 Epoch 305/10000
709 - 0s - loss: 2.0423 -
    mean_absolute_error: 1.0051 - val_loss
     14.9730 - val_mean_absolute_error: 2.
    5850
710 Epoch 306/10000
711 - 0s - loss: 2.2166 -
    mean_absolute_error: 1.0324 - val_loss
     14.2201 - val_mean_absolute_error: 2.
    4896
712 Epoch 307/10000
713 - 0s - loss: 2.0770 -
    mean_absolute_error: 0.9913 - val_loss
```

```
713 : 14.1805 - val_mean_absolute_error: 2.
    3132
714 Epoch 308/10000
715 - 0s - loss: 1.9095 -
    mean_absolute_error: 0.9435 - val_loss
      15.3983 - val_mean_absolute_error: 2.
    5432
716 Epoch 309/10000
717 - 0s - loss: 2.1437 -
    mean_absolute_error: 1.0149 - val_loss
     15.0632 - val_mean_absolute_error: 2.
    3842
718 Epoch 310/10000
719 - 0s - loss: 2.0585 -
    mean_absolute_error: 0.9797 - val_loss
      17.7830 - val_mean_absolute_error: 2.
    5849
720
   Epoch 00310: val_mean_absolute_error
721
    did not improve from 2.27868
722 Epoch 311/10000
723 - 0s - loss: 2.1<u>620</u> -
    mean_absolute_error: 1.0164 - val_loss
     18.3972 - val_mean_absolute_error: 2.
```

```
: 15.2359 - val_mean_absolute_error: 2.
733
    3019
734 Epoch 317/10000
    - 0s - loss: 1.9706 -
735 l
    mean_absolute_error: 1.0049 - val_loss
    : 17.0828 - val_mean_absolute_error: 2.
    6797
736 Epoch 318/10000
    - 0s - loss: 2.0393 -
737 |
    mean_absolute_error: 0.9737 - val_loss
     15.0948 - val_mean_absolute_error: 2.
    6181
738 Epoch 319/10000
739 - 0s - loss: 1.9211 -
    mean_absolute_error: 0.9437 - val_loss
      15. 2936 - val_mean_absolute_error: 2.
    3663
740 Epoch 320/10000
    - 0s - loss: 2.0960 -
741
    mean_absolute_error: 1.0314 - val_loss
      14.3546 - val_mean_absolute_error: 2.
    2714
742
    Epoch 00320: val_mean_absolute_error
743
```

```
743 improved from 2.27868 to 2.27144,
    saving model to ./model/model_Epoch0320
    -val_mean_absolute_error2.27.h5
744 Epoch 321/10000
745 l
    - 0s - loss: 1.9044 -
    mean_absolute_error: 0.9583 - val_loss
      16.3305 - val_mean_absolute_error: 2.
    4341
746 Epoch 322/10000
747 - 0s - loss: 2.1304 -
    mean_absolute_error: 1.0233 - val_loss
      14.6590 - val_mean_absolute_error: 2.
    5445
748 Epoch 323/10000
749 - 0s - loss: 1.9075 -
    mean_absolute_error: 0.9564 - val_loss
     15.1806 - val_mean_absolute_error: 2.
    2832
750 Epoch 324/10000
751 - 0s - loss: 2.0301 -
    mean_absolute_error: 0.9918 - val_loss
     13.9229 - val_mean_absolute_error: 2.
    5236
752 Epoch 325/10000
```

```
- 0s - loss: 1.9731 -
753
    mean_absolute_error: 0.9991 - val_loss
     14.6705 - val_mean_absolute_error: 2.
    3190
754 Epoch 326/10000
755 - 0s - loss: 1.9225 -
    mean_absolute_error: 0.9350 - val_loss
     14.5299 - val_mean_absolute_error: 2.
    4179
756 Epoch 327/10000
757 - 0s - loss: 1.9881 -
    mean_absolute_error: 0.9949 - val_loss
      14.5081 - val_mean_absolute_error: 2.
    2974
758 Epoch 328/10000
    - 0s - Loss: 1.7965 -
759
    mean_absolute_error: 0.9291 - val_loss
    13.3162 - val_mean_absolute_error: 2.
    3665
760 Epoch 329/10000
    - 0s - loss: 1.9571 -
761
    mean_absolute_error: 0.9876 - val_loss
      14.3532 - val_mean_absolute_error: 2.
```

9773

764

Fpoch 00330: val_mean_absolute_error did not improve from 2.27144

766 Epoch 331/10000

767 - 0s - loss: 2.1491 - mean_absolute_error: 1.0649 - val_loss: 14.2655 - val_mean_absolute_error: 2.4132

768 Epoch 332/10000

769 - Os - Loss: 1.8056 - mean_absolute_error: 0.9295 - val_loss : 15.8299 - val_mean_absolute_error: 2.3233

770 Epoch 333/10000

771 - 0s - loss: 1.8669 - mean_absolute_error: 0.9938 - val_loss : 14.6616 - val_mean_absolute_error: 2. 3220

772 Epoch 334/10000

```
- 0s - loss: 1.9868 -
773
    mean_absolute_error: 1.0057 - val_loss
      15.2658 - val_mean_absolute_error: 2.
    4762
774 Epoch 335/10000
775 - 0s - loss: 2.0014 -
    mean_absolute_error: 0.9835 - val_loss
     14.0339 - val_mean_absolute_error: 2.
    5222
776 Epoch 336/10000
777 - 0s - loss: 1.8816 -
    mean_absolute_error: 0.9597 - val_loss
     14.8914 - val_mean_absolute_error: 2.
    2979
778 Epoch 337/10000
    - 0s - loss: 1.8513 -
779 I
    mean_absolute_error: 0.9512 - val_loss
     13.9345 - val_mean_absolute_error: 2.
    5279
780 Epoch 338/10000
    - 0s - loss: 1.8177 -
781
    mean_absolute_error: 0.9484 - val_loss
     14.7740 - val_mean_absolute_error: 2.
    3942
```

```
782 Epoch 339/10000
    - 0s - loss: 1.8739 -
783
    mean_absolute_error: 0.9610 - val_loss
      14.3029 - val_mean_absolute_error: 2.
    4728
784 Epoch 340/10000
785 - 0s - loss: 1.9201 -
    mean_absolute_error: 0.9598 - val_loss
      15.3677 - val_mean_absolute_error: 2.
    3744
786
787 Epoch 00340: val_mean_absolute_error
    did not improve from 2.27144
788 Epoch 341/10000
    - 0s - loss: 1.8761 -
789
    mean_absolute_error: 0.9605 - val_loss
     14.2186 - val_mean_absolute_error: 2.
    3111
790 Epoch 342/10000
    - 0s - loss: 1.9512 -
791 l
    mean_absolute_error: 0.9631 - val_loss
     16.1321 - val_mean_absolute_error: 2.
    3997
792 Epoch 343/10000
```

```
- 0s - loss: 1.7205 -
793
    mean_absolute_error: 0.9050 - val_loss
      14.8216 - val_mean_absolute_error: 2.
    5433
794 Epoch 344/10000
    - 0s - loss: 1.8581 -
795
    mean_absolute_error: 0.9509 - val_loss
     14.5676 - val_mean_absolute_error: 2.
    3571
796 Epoch 345/10000
797 - 0s - loss: 1.8681 -
    mean_absolute_error: 0.9185 - val_loss
      14.2676 - val_mean_absolute_error: 2.
    2742
798 Epoch 346/10000
    - 0s - loss: 1.8569 -
799
    mean_absolute_error: 0.9499 - val_loss
      16.2703 - val_mean_absolute_error: 2.
    5774
800 Epoch 347/10000
    - 0s - loss: 1.8741 -
801
    mean_absolute_error: 0.9380 - val_loss
    16.2112 - val_mean_absolute_error: 2.
    7778
```

7119

812 Epoch 352/10000

17.4370 - val_mean_absolute_error: 2.

```
- 0s - loss: 1.7342 -
813
    mean_absolute_error: 0.9101 - val_loss
      15.1515 - val_mean_absolute_error: 2.
    3621
814 Epoch 353/10000
815 - 0s - loss: 1.9371 -
    mean_absolute_error: 0.9670 - val_loss
     15.0829 - val_mean_absolute_error: 2.
    5077
816 Epoch 354/10000
817 - 0s - loss: 1.7942 -
    mean_absolute_error: 0.9390 - val_loss
    : 14.3486 - val_mean_absolute_error: 2.
    3495
818 Epoch 355/10000
    - 0s - loss: 1.8253 -
819 l
    mean_absolute_error: 0.9500 - val_loss
    14.6962 - val_mean_absolute_error: 2.
    3001
820 Epoch 356/10000
    - 0s - loss: 1.8569 -
821
    mean_absolute_error: 0.9433 - val_loss
      14.6840 - val_mean_absolute_error: 2.
    5033
```

```
822 Epoch 357/10000
    - 0s - loss: 1.7482 -
823
    mean_absolute_error: 0.9157 - val_loss
      14.6225 - val_mean_absolute_error: 2.
    3770
824 Epoch 358/10000
825 - 0s - loss: 1.7876 -
    mean_absolute_error: 0.9358 - val_loss
      14.8173 - val_mean_absolute_error: 2.
    5308
826 Epoch 359/10000
    - 0s - loss: 1.7943 -
827
    mean_absolute_error: 0.9279 - val_loss
      14. 0924 - val_mean_absolute_error: 2.
    6262
828 Epoch 360/10000
829 - 0s <u>- loss: 1.7785 -</u>
    mean_absolute_error: 0.9279 - val_loss
      14.4884 - val_mean_absolute_error: 2.
    5050
830
831 Epoch 00360: val_mean_absolute_error
    did not improve from 2.27144
832 Epoch 361/10000
```

```
- 0s - loss: 1.7353 -
833
    mean_absolute_error: 0.9015 - val_loss
      18.0756 - val_mean_absolute_error: 2.
    5895
834 Epoch 362/10000
835
    - 0s - loss: 1.7430 -
    mean_absolute_error: 0.9032 - val_loss
     14.3251 - val_mean_absolute_error: 2.
    5982
836 Epoch 363/10000
837 - 0s - loss: 1.6605 -
    mean_absolute_error: 0.9196 - val_loss
      17.7063 - val_mean_absolute_error: 2.
    6277
838 Epoch 364/10000
    - 0s - loss: 1.7740 -
839
    mean_absolute_error: 0.9331 - val_loss
     13.8154 - val_mean_absolute_error: 2.
    2661
840 Epoch 365/10000
    - 0s - loss: 1.8541 -
841
    mean_absolute_error: 0.9747 - val_loss
     14.5495 - val_mean_absolute_error: 2.
    3410
```

```
842 Epoch 366/10000
    - 0s - loss: 1.9007 -
843
    mean_absolute_error: 0.9676 - val_loss
      13.7906 - val_mean_absolute_error: 2.
    5707
844 Epoch 367/10000
    - 0s - loss: 1.8400 -
845
    mean_absolute_error: 0.9361 - val_loss
      14.6852 - val_mean_absolute_error: 2.
    4288
846 Epoch 368/10000
    - 0s - loss: 1.6277 -
847 l
    mean_absolute_error: 0.8758 - val_loss
      16.4776 - val_mean_absolute_error: 2.
    7040
848 Epoch 369/10000
    - 0s - loss: 1.7803 -
849
    mean_absolute_error: 0.9472 - val_loss
     14.2399 - val_mean_absolute_error: 2.
    4672
850 Epoch 370/10000
    - 0s - loss: 1.7184
851
    mean_absolute_error: 0.9242 - val_loss
     17.0157 - val_mean_absolute_error: 2.
```

```
File - boston01
851 4219
852
853 Epoch 00370: val_mean_absolute_error
    did not improve from 2.27144
854 Epoch 371/10000
     - 0s - loss: 1.7668 -
855 I
    mean_absolute_error: 0.9466 - val_loss
     15.7616 - val_mean_absolute_error: 2.
    3674
856 Epoch 372/10000
857 - 0s - loss: 1.6920 -
    mean_absolute_error: 0.9014 - val_loss
    : 15.3433 - val_mean_absolute_error: 2.
    2932
858 Epoch 373/10000
     - 0s - loss: 1.7816 -
859
    mean_absolute_error: 0.9394 - val_loss
    : 16.3074 - val_mean_absolute_error: 2.
    7174
860 Epoch 374/10000
861
     - 0s - loss: 1.5983 -
    mean_absolute_error: 0.8789 - val_loss
     15.7665 - val_mean_absolute_error: 2.
    5116
```

```
862 Epoch 375/10000
    - 0s - loss: 1.8667 -
863
    mean_absolute_error: 0.9425 - val_loss
      14.5178 - val_mean_absolute_error: 2.
    4010
864 Epoch 376/10000
865 - 0s - loss: 1.6729 -
    mean_absolute_error: 0.8907 - val_loss
      14.0100 - val_mean_absolute_error: 2.
    5083
866 Epoch 377/10000
    - 0s - loss: 1.6877 -
867 l
    mean_absolute_error: 0.8787 - val_loss
      13.8046 - val_mean_absolute_error: 2.
    3509
868 Epoch 378/10000
    - 0s - loss: 1.6936 -
869
    mean_absolute_error: 0.9043 - val_loss
     15.7462 - val_mean_absolute_error: 2.
    4028
870 Epoch 379/10000
    - 0s - loss: 1.6934
871 l
    mean_absolute_error: 0.8995 - val_loss
     14.7212 - val_mean_absolute_error: 2.
```

```
File - boston01
871 3616
872 Epoch 380/10000
     - 0s - loss: 1.6327 -
873
    mean_absolute_error: 0.8894 - val_loss
      15.0645 - val_mean_absolute_error: 2.
    2954
874
875 Epoch 00380: val_mean_absolute_error
    did not improve from 2.27144
876 Epoch 381/10000
877 - Os - Loss: 1.6144 -
    mean_absolute_error: 0.9267 - val_loss
      16.6079 - val_mean_absolute_error: 2.
    3784
878 Epoch 382/10000
     - 0s - loss: 1.6437 -
879
    mean_absolute_error: 0.9075 - val_loss
     17.4873 - val_mean_absolute_error: 2.
    6080
880 Epoch 383/10000
     - 0s - loss: 1.7721 -
881
    mean_absolute_error: 0.9155 - val_loss
     14.6514 - val_mean_absolute_error: 2.
    2917
```

890 Epoch 388/10000

891 - Os - Loss: 1.6807 -
mean_absolute_error: 0.9031 - val_loss
: 15.8099 - val_mean_absolute_error: 2.

```
File - boston01
    4255
891
892 Epoch 389/10000
     - 0s - Loss: 1.6054
893
    mean_absolute_error: 0.8889 - val_loss
      14.4099 - val_mean_absolute_error: 2.
    4109
894 Epoch 390/10000
895
     - 0s - loss: 1.5804 -
    mean_absolute_error: 0.8707 - val_loss
     14.6813 - val_mean_absolute_error: 2.
    3511
896
    Epoch 00390: val_mean_absolute_error
    did not improve from 2.27144
898 Epoch 391/10000
     - 0s - loss: 1.5320 -
899
    mean_absolute_error: 0.8630 - val_loss
     14.8922 - val_mean_absolute_error: 2.
    5381
900 Epoch 392/10000
     - 0s - loss: 1.7256 -
901
    mean_absolute_error: 0.9332 - val_loss
     14.9890 - val_mean_absolute_error: 2.
    2921
```

```
902 Epoch 393/10000
    - 0s - loss: 1.5913 -
903
    mean_absolute_error: 0.8825 - val_loss
      13.7557 - val_mean_absolute_error: 2.
    4474
904 Epoch 394/10000
905 - 0s - loss: 1.5973 -
    mean_absolute_error: 0.8757 - val_loss
      17.4712 - val_mean_absolute_error: 2.
    8735
906 Epoch 395/10000
    - 0s - loss: 1.8653 -
907 l
    mean_absolute_error: 0.9697 - val_loss
      14.7767 - val_mean_absolute_error: 2.
    4940
908 Epoch 396/10000
    - 0s - loss: 1.6422 -
909
    mean_absolute_error: 0.8958 - val_loss
     14.6101 - val_mean_absolute_error: 2.
    3777
910 Epoch 397/10000
    - 0s - Loss: 1.5268
911
    mean_absolute_error: 0.8867 - val_loss
     14.0779 - val_mean_absolute_error: 2.
```

```
File - boston01
911 5638
912 Epoch 398/10000
913 - 0s - loss: 1.5572 -
    mean_absolute_error: 0.8839 - val_loss
      15.1277 - val_mean_absolute_error: 2.
    6321
914 Epoch 399/10000
915 - 0s - loss: 1.4570 -
    mean_absolute_error: 0.8564 - val_loss
     14.8208 - val_mean_absolute_error: 2.
    3968
916 Epoch 400/10000
917 - 0s - loss: 1.6204 -
    mean_absolute_error: 0.8787 - val_loss
      14.1910 - val_mean_absolute_error: 2.
    3837
918
919 Epoch 00400: val_mean_absolute_error
    did not improve from 2.27144
920 Epoch 401/10000
     - 0s - loss: 1.5270 -
921
    mean_absolute_error: 0.8488 - val_loss
      15.8006 - val_mean_absolute_error: 2.
    3809
```

```
922 Epoch 402/10000
    - 0s - loss: 1.5842 -
923
    mean_absolute_error: 0.8853 - val_loss
      14.8969 - val_mean_absolute_error: 2.
    4643
924 Epoch 403/10000
925 - 0s - loss: 1.5664 -
    mean_absolute_error: 0.8760 - val_loss
      16.1669 - val_mean_absolute_error: 2.
    6921
926 Epoch 404/10000
    - 0s - loss: 1.6772 -
927
    mean_absolute_error: 0.8792 - val_loss
      15.4799 - val_mean_absolute_error: 2.
    6875
928 Epoch 405/10000
929 - 0s - loss: 1.6364 -
    mean_absolute_error: 0.9033 - val_loss
     14.4138 - val_mean_absolute_error: 2.
    5625
930 Epoch 406/10000
    - 0s - loss: 1.6387
931
    mean_absolute_error: 0.9102 - val_loss
     14.7752 - val_mean_absolute_error: 2.
```

```
File - boston01
931 4425
932 Epoch 407/10000
    - 0s - Loss: 1.5653
933
    mean_absolute_error: 0.8960 - val_loss
     14.9045 - val_mean_absolute_error: 2.
    3585
934 Epoch 408/10000
935
    - 0s - loss: 1.4068 -
    14.4369 - val_mean_absolute_error: 2.
    6098
936 Epoch 409/10000
937 - 0s - loss: 1.6119 -
    mean_absolute_error: 0.9260 - val_loss
     14.0295 - val_mean_absolute_error: 2.
    5917
938 Epoch 410/10000
    - 0s - loss: 1.5634 -
939
    mean_absolute_error: 0.8716 - val_loss
     15.4314 - val_mean_absolute_error: 2.
    4701
940
    Epoch 00410: val_mean_absolute_error
941
    did not improve from 2.27144
```

```
942 Epoch 411/10000
    - 0s - loss: 1.5502 -
943
    mean_absolute_error: 0.8504 - val_loss
      16.2650 - val_mean_absolute_error: 2.
    4877
944 Epoch 412/10000
    - 0s - loss: 1.5782 -
945
    mean_absolute_error: 0.9070 - val_loss
      17.2417 - val_mean_absolute_error: 2.
    5166
946 Epoch 413/10000
    - 0s - loss: 1.5055 -
947
    mean_absolute_error: 0.8558 - val_loss
      17.6926 - val_mean_absolute_error: 2.
    6917
948 Epoch 414/10000
    - 0s - loss: 1.5368_-
949
    mean_absolute_error: 0.8530 - val_loss
     16.0439 - val_mean_absolute_error: 2.
    6625
950 Epoch 415/10000
    - 0s - loss: 1.5748
951
    mean_absolute_error: 0.8894 - val_loss
     14.7222 - val_mean_absolute_error: 2.
```

```
File - boston01
951 3720
952 Epoch 416/10000
     - 0s - loss: 1.5700
953
    mean_absolute_error: 0.8637 - val_loss
      17.1348 - val_mean_absolute_error: 2.
    4844
954 Epoch 417/10000
955
     - 0s - loss: 1.4599 -
    mean_absolute_error: 0.8223 - val_loss
      16.1108 - val_mean_absolute_error: 2.
    4365
956 Epoch 418/10000
957 - 0s - loss: 1.5189 -
    mean_absolute_error: 0.8623 - val_loss
     15.2316 - val_mean_absolute_error: 2.
    8354
958 Epoch 419/10000
     - 0s - loss: 1.6611 -
959
    mean_absolute_error: 0.8517 - val_loss
      14.8896 - val_mean_absolute_error: 2.
    4017
960 Epoch 420/10000
     - 0s - loss: 1.5410 -
961
    mean_absolute_error: 0.8776 - val_l<u>oss</u>
```

```
17.1800 - val_mean_absolute_error: 2.
961
    5526
962
963 Epoch 00420: val_mean_absolute_error
    did not improve from 2.27144
964 Epoch 421/10000
965
    - 0s - loss: 1.6255
    mean_absolute_error: 0.9147 - val_loss
      15.2094 - val_mean_absolute_error: 2.
    3383
966 Epoch 422/10000
    - 0s - loss: 1.4973 -
967
    mean_absolute_error: 0.8177 - val_loss
      17. 6861 - val_mean_absolute_error: 2.
    5329
968 Epoch 423/10000
    - 0s - loss: 1.4637 -
969
    mean_absolute_error: 0.8620 - val_loss
     14.6424 - val_mean_absolute_error: 2.
    3580
970 Epoch 424/10000
    - 0s - loss: 1.4664 -
971
    mean_absolute_error: 0.8610 - val_loss
     15.1302 - val_mean_absolute_error: 2.
```

```
File - boston01
971 3577
972 Epoch 425/10000
973 - 0s - loss: 1.4672 -
    mean_absolute_error: 0.8452 - val_loss
      15.6767 - val_mean_absolute_error: 2.
    4242
974 Epoch 426/10000
975 - 0s - loss: 1.4158 -
    mean_absolute_error: 0.8412 - val_loss
     17.2967 - val_mean_absolute_error: 2.
    6878
976 Epoch 427/10000
977 - 0s - loss: 1.5372 -
    mean_absolute_error: 0.8658 - val_loss
     16.6655 - val_mean_absolute_error: 2.
    5690
978 Epoch 428/10000
     - Os - loss: 1.4457 -
979
    mean_absolute_error: 0.8762 - val_loss
      15.9439 - val_mean_absolute_error: 2.
    6024
980 Epoch 429/10000
     - Os - Loss: 1.5492 -
981
    mean_absolute_error: 0.8565 - val_loss
```

```
19.1364 - val_mean_absolute_error: 2
981
     7487
982 Epoch 430/10000
    - 0s - loss: 1.6797 -
983
    mean_absolute_error: 0.8732 - val_loss
      15.3308 - val_mean_absolute_error: 2
    3330
984
985 Epoch 00430: val_mean_absolute_error
    did not improve from 2.27144
986 Epoch 431/10000
    - 0s - loss: 1.3127 -
987 |
    mean_absolute_error: 0.7755 - val_loss
      15.0591 - val_mean_absolute_error: 2
     3440
988 Epoch 432/10000
    - 0s - loss: 1.3813 -
989
    mean_absolute_error: 0.8247 - val_loss
      15.8284 - val_mean_absolute_error: 2
     4720
990 Epoch 433/10000
    - 0s - Loss: 1.6340
991
    mean_absolute_error: 0.8772 - val_loss
     15.0309 - val_mean_absolute_error: 2
```

```
File - boston01
      . 5306
 991
 992 Epoch 434/10000
      - 0s - loss: 1.4351
 993
     mean_absolute_error: 0.8290 - val_loss
       15.8105 - val_mean_absolute_error: 2
      5570
 994 Epoch 435/10000
 995 - 0s - loss: 1.4595
     mean_absolute_error: 0.8464 - val_loss
       20.0449 - val_mean_absolute_error:
      7847
 996 Epoch 436/10000
      - 0s - loss: 1.3921
 997 |
     mean_absolute_error: 0.8270 - val_loss
       15.1965 - val_mean_absolute_error:
      3940
 998 Epoch 437/10000
      - 0s - loss: 1.4550 -
 999
     mean_absolute_error: 0.8569 - val_loss
       18.6720 - val_mean_absolute_error:
      8522
1000 Epoch 438/10000
1001 - 0s - loss: 1.6239 -
     mean_absolute_error: 0.9091 - val_loss
```

```
15.2577 - val_mean_absolute_error: 2
1001
      3719
1002 Epoch 439/10000
     - 0s - loss: 1.3111 -
1003
     mean_absolute_error: 0.7871 - val_loss
       17.4640 - val_mean_absolute_error: 2
      6287
1004 Epoch 440/10000
1005
     - 0s - loss: 1.3243 -
     mean_absolute_error: 0.8325 - val_loss
       16.0116 - val_mean_absolute_error: 2
     4028
1006
    Epoch 00440: val_mean_absolute_error
1007
     did not improve from 2.27144
1008 Epoch 441/10000
     - 0s - loss: 1.3685 -
1009
     mean_absolute_error: 0.8233 - val_loss
       14.3668 - val_mean_absolute_error: 2
      4710
1010 Epoch 442/10000
1011 - 0s - loss: 1.3892
     mean_absolute_error: 0.8235 - val_loss
     14.5064 - val_mean_absolute_error: 2
```

```
File - boston01
     . 4099
1011
1012 Epoch 443/10000
1013 - 0s - loss: 1.4166
     mean_absolute_error: 0.8215 - val_loss
       14.9252 - val_mean_absolute_error: 2
      3662
1014 Epoch 444/10000
1015 - 0s - loss: 1.4678 -
     mean_absolute_error: 0.8663 - val_loss
       15.3650 - val_mean_absolute_error:
      4840
1016 Epoch 445/10000
1017 - 0s - loss: 1.4300 -
     15.6853 - val_mean_absolute_error:
      4239
1018 Epoch 446/10000
1019 - 0s - Loss: 1.4497 -
     mean_absolute_error: 0.8367 - val_loss
       15.7063 - val_mean_absolute_error:
      6232
1020 Epoch 447/10000
1021 - 0s - loss: 1.4990 -
     mean_absolute_error: 0.8996 - val_l<u>oss</u>
```

```
15.5788 - val_mean_absolute_error: 2
1021
      8463
1022 Epoch 448/10000
     - 0s - loss: 1.4814 -
1023
     mean_absolute_error: 0.8399 - val_loss
       14.4456 - val_mean_absolute_error: 2
     5660
1024 Epoch 449/10000
1025
     - 0s - loss: 1.3259 -
     mean_absolute_error: 0.7959 - val_loss
       14.4201 - val_mean_absolute_error: 2
      4000
1026 Epoch 450/10000
     - 0s - loss: 1.5449 -
1027
     mean_absolute_error: 0.8517 - val_l<u>oss</u>
      14.9426 - val_mean_absolute_error: 2
     . 4181
1028
1029 Epoch 00450: val_mean_absolute_error
     did not improve from 2.27144
1030 Epoch 451/10000
1031 - 0s - Loss: 1.4022
     mean_absolute_error: 0.8531 - val_loss
     15.1806 - val_mean_absolute_error: 2
```

```
File - boston01
     . 3518
1031
1032 Epoch 452/10000
1033 - 0s - loss: 1.2848
     mean_absolute_error: 0.7993 - val_loss
       15.2663 - val_mean_absolute_error: 2
      4277
1034 Epoch 453/10000
1035 - 0s - Loss: 1,4697
     mean_absolute_error: 0.8232 - val_loss
       19.0383 - val_mean_absolute_error:
      6928
1036 Epoch 454/10000
1037 - 0s - loss: 1.3968 -
     mean_absolute_error: 0.8349 - val_loss
       14.5463 - val_mean_absolute_error:
      3851
1038 Epoch 455/10000
1039 - 0s - loss: 1.2743 -
     mean_absolute_error: 0.8091 - val_loss
       18.8853 - val_mean_absolute_error:
      8567
1040 Epoch 456/10000
1041 - 0s - loss: 1.5086 -
     mean_absolute_error: 0.8377 - val_l<u>oss</u>
```

```
15.3994 - val_mean_absolute_error: 2
1041
      4230
1042 Epoch 457/10000
     - 0s - loss: 1.3167 -
1043
     mean_absolute_error: 0.8010 - val_loss
       19.9696 - val_mean_absolute_error: 2
     8065
1044 Epoch 458/10000
1045
     - 0s - loss: 1.4493 -
     mean_absolute_error: 0.8035 - val_loss
       15.7117 - val_mean_absolute_error: 2
      4015
1046 Epoch 459/10000
     - Os - Loss: 1.3997 -
1047
     mean_absolute_error: 0.8265 - val_loss
       17.3444 - val_mean_absolute_error: 2
      5906
1048 Epoch 460/10000
     - 0s - loss: 1.3032 -
1049
     mean_absolute_error: 0.7794 - val_loss
       14.6490 - val_mean_absolute_error: 2
     5962
1050
    Epoch 00460: val_mean_absolute_error
1051
```

```
File - boston01
1061 00010000000475.
1062 Epoch 465/10000
      - 0s - loss: 0.9995
1063
     mean_absolute_error: 0.6585 - val_loss
       14.9356 - val_mean_absolute_error: 2
      3494
1064 Epoch 466/10000
1065
     - 0s - Loss: 0.9302
     mean_absolute_error: 0.6279 - val_loss
       14.8179 - val_mean_absolute_error:
      3764
1066 Epoch 467/10000
1067 - 0s - loss: 0.9316 -
     mean_absolute_error: 0.6216 - val_loss
       14.9468 - val_mean_absolute_error:
      3592
1068 Epoch 468/10000
1069 - 0s - loss: 0.9230 -
     mean_absolute_error: 0.6186 - val_loss
       14.9497 - val_mean_absolute_error:
      3666
1070 Epoch 469/10000
1071 - 0s - loss: 0.9257 -
     mean_absolute_error: 0.6179 - val_l<u>oss</u>
```

```
15.0719 - val_mean_absolute_error: 2
1071
      3643
1072 Epoch 470/10000
     - 0s - loss: 0.9371 -
1073
     mean_absolute_error: 0.6247 - val_loss
       15.1085 - val_mean_absolute_error: 2
     . 3553
1074
1075 Epoch 00470: val_mean_absolute_error
     did not improve from 2.27144
1076 Epoch 471/10000
1077 - 0s - loss: 0.9137 -
     mean_absolute_error: 0.6128 - val_loss
       15.0209 - val_mean_absolute_error: 2
      3596
1078 Epoch 472/10000
     - 0s - loss: 0.9287 -
1079
     mean_absolute_error: 0.6111 - val_loss
       14.8410 - val_mean_absolute_error: 2
     3839
1080 Epoch 473/10000
     - Os - loss: 0.9242
1081
     mean_absolute_error: 0.6200 - val_loss
      15.0388 - val_mean_absolute_error: 2
```

```
File - boston01
      . 3554
1081
1082 Epoch 474/10000
      - 0s - loss: 0.9101
1083
     mean_absolute_error: 0.6134 - val_loss
       15.0800 - val_mean_absolute_error: 2
      3599
1084 Epoch 475/10000
1085
     - 0s - Loss: 0.9104
     mean_absolute_error: 0.6112 - val_loss
       15.1703 - val_mean_absolute_error:
      3542
1086 Epoch 476/10000
1087 - 0s - loss: 0.9149 -
     mean_absolute_error: 0.6125 - val_loss
       15.2366 - val_mean_absolute_error:
      3556
1088 Epoch 477/10000
1089 - 0s - loss: 0.9023 -
     mean_absolute_error: 0.6123 - val_loss
       14.9713 - val_mean_absolute_error:
      3725
1090 Epoch 478/10000
      - 0s - loss: <u>0</u>.9100 -
1091
     mean_absolute_error: 0.6095 - val_l<u>oss</u>
```

```
14.9899 - val_mean_absolute_error: 2
1091
      3666
1092 Epoch 479/10000
     - 0s - loss: 0.9088 -
1093
     mean_absolute_error: 0.6072 - val_loss
       14.9858 - val_mean_absolute_error: 2
      3651
1094 Epoch 480/10000
1095
     - 0s - loss: 0.9120 -
     mean_absolute_error: 0.6149 - val_loss
       15.0885 - val_mean_absolute_error: 2
     3565
1096
    Epoch 00480: val_mean_absolute_error
1097
     did not improve from 2.27144
1098 Epoch 481/10000
     - 0s - loss: 0.9084 -
1099
     mean_absolute_error: 0.6101 - val_loss
       14.9983 - val_mean_absolute_error: 2
     3661
1100 Epoch 482/10000
1101 - 0s - loss: 0.9184
     mean_absolute_error: 0.6139 - val_loss
     15.1026 - val_mean_absolute_error: 2
```

```
File - boston01
      . 3604
1101
1102 Epoch 483/10000
1103 - 0s - loss: 0.8940
     mean_absolute_error: 0.6059 - val_loss
       14.9657 - val_mean_absolute_error: 2
      3715
1104 Epoch 484/10000
1105 - 0s - loss: 0.8996 -
     mean_absolute_error: 0.6080 - val_loss
       15.0119 - val_mean_absolute_error:
      3642
1106 Epoch 485/10000
1107 - 0s - loss: 0.9041
     mean_absolute_error: 0.6071 - val_loss
       14.8839 - val_mean_absolute_error:
      3692
1108 Epoch 486/10000
1109 - 0s - loss: 0.9011 -
     mean_absolute_error: 0.6081 - val_loss
       15.0509 - val_mean_absolute_error:
      3609
1110 Epoch 487/10000
1111 - 0s - loss: 0.9027 -
     mean_absolute_error: 0.5994 - val_l<u>oss</u>
```

```
: 15.1396 - val_mean_absolute_error: 2
1111
     3677
1112 Epoch 488/10000
     - 0s - loss: 0.9111 -
1113
     mean_absolute_error: 0.6144 - val_loss
       15.0355 - val_mean_absolute_error: 2
      3690
1114 Epoch 489/10000
1115 - 0s - loss: 0.9056 -
     mean_absolute_error: 0.6028 - val_loss
       14.9065 - val_mean_absolute_error: 2
      3771
1116 Epoch 490/10000
     - 0s - loss: 0.8910 -
1117 |
     mean_absolute_error: 0.6103 - val_loss
      15.0505 - val_mean_absolute_error: 2
     . 3802
1118
1119 Epoch 00490: val_mean_absolute_error
     did not improve from 2.27144
1120 Epoch 491/10000
1121 - 0s - loss: 0.9030 -
     mean_absolute_error: 0.6158 - val_loss
      15.0727 - val_mean_absolute_error: 2
```

```
File - boston01
     . 3675
1121
1122 Epoch 492/10000
1123 - 0s - Loss: 0.8961
     mean_absolute_error: 0.5986 - val_loss
       14.9453 - val_mean_absolute_error: 2
      3913
1124 Epoch 493/10000
1125 - 0s - loss: 0.8968
     mean_absolute_error: 0.6141 - val_loss
       14.9783 - val_mean_absolute_error:
      3766
1126 Epoch 494/10000
1127 - 0s - loss: 0.8845 -
     mean_absolute_error: 0.5948 - val_loss
       14.8873 - val_mean_absolute_error:
      3902
1128 Epoch 495/10000
1129 - 0s - loss: 0.8986 -
     mean_absolute_error: 0.6060 - val_loss
       14.9193 - val_mean_absolute_error:
      3761
1130 Epoch 496/10000
1131 - 0s - loss: 0.8879 -
     mean_absolute_error: 0.6034 - val_loss
```

```
15.0311 - val_mean_absolute_error: 2
1131
     3631
1132 Epoch 497/10000
     - 0s - loss: 0.8962 -
1133
     mean_absolute_error: 0.6069 - val_loss
       15.0212 - val_mean_absolute_error: 2
      3804
1134 Epoch 498/10000
1135
     - 0s - loss: 0.8914 -
     mean_absolute_error: 0.5960 - val_loss
       14.9894 - val_mean_absolute_error: 2
      3955
1136 Epoch 499/10000
     - 0s - loss: 0.8934 -
1137
     mean_absolute_error: 0.6047 - val_loss
       15.0414 - val_mean_absolute_error: 2
      3715
1138 Epoch 500/10000
     - 0s - loss: 0.8879 -
1139 l
     mean_absolute_error: 0.6017 - val_loss
       15.1524 - val_mean_absolute_error: 2
     3776
1140
    Epoch 00500: val_mean_absolute_error
1141
```

mean_absolute_error: 0.6063 - val_loss

1151 - 0s - loss: 0.9058 -

```
15.0376 - val_mean_absolute_error: 2
1151
     3747
1152 Epoch 506/10000
     - Os - loss: 0.8889 -
1153
     mean_absolute_error: 0.6030 - val_loss
       15.1558 - val_mean_absolute_error: 2
      3645
1154 Epoch 507/10000
     - 0s - loss: 0.8889 -
1155
     mean_absolute_error: 0.6010 - val_loss
       15.1722 - val_mean_absolute_error: 2
      3692
1156 Epoch 508/10000
     - 0s - loss: 0.8881 -
1157
     mean_absolute_error: 0.5966 - val_loss
       15.2174 - val_mean_absolute_error: 2
      3591
1158 Epoch 509/10000
1159 - 0s - loss: 0.8814 -
     mean_absolute_error: 0.6021 - val_loss
       15.2282 - val_mean_absolute_error: 2
      3651
1160 Epoch 510/10000
1161 - 0s - loss: 0.8826 -
```

```
1161 mean_absolute_error: 0.6010 - val_loss
       15.1598 - val_mean_absolute_error: 2
     3744
1162
1163 Epoch 00510: val_mean_absolute_error
     did not improve from 2.27144
1164 Epoch 511/10000
    - 0s - loss: 0.8874
1165
     mean_absolute_error: 0.5993 - val_loss
       15.2843 - val_mean_absolute_error: 2
     3705
1166 Epoch 512/10000
1167 - 0s - loss: 0.8920 -
     mean_absolute_error: 0.6051 - val_loss
       15.0546 - val_mean_absolute_error: 2
     3767
1168 Epoch 513/10000
1169 - 0s - loss: 0.8866 -
     mean_absolute_error: 0.5982 - val_loss
       15.1409 - val_mean_absolute_error:
     3746
1170 Epoch 514/10000
1171 - 0s - loss: 0.8947 -
     mean_absolute_error: 0.6033 - val_loss
```

```
15.0443 - val_mean_absolute_error: 2
1171
     3768
1172 Epoch 515/10000
     - 0s - loss: 0.8810 -
1173
     mean_absolute_error: 0.5952 - val_loss
       15.0930 - val_mean_absolute_error: 2
      3619
1174 Epoch 516/10000
1175
    - 0s - loss: 0.8863 -
     mean_absolute_error: 0.5974 - val_loss
       14.9081 - val_mean_absolute_error: 2
      3775
1176 Epoch 517/10000
     - 0s - loss: 0.8826 -
1177 |
     mean_absolute_error: 0.5976 - val_loss
       15.0792 - val_mean_absolute_error: 2
      3706
1178 Epoch 518/10000
1179 - 0s - loss: 0.8911
     mean_absolute_error: 0.5976 - val_loss
       14.9489 - val_mean_absolute_error: 2
      3860
1180 Epoch 519/10000
1181 - 0s - loss: 0.8760 -
```

```
1181 mean_absolute_error: 0.5969 - val_loss
       15.1474 - val_mean_absolute_error: 2
      3624
1182 Epoch 520/10000
     - 0s - loss: 0.8844 -
1183
     mean_absolute_error: 0.5966 - val_loss
       15.0964 - val_mean_absolute_error: 2
     3744
1184
    Epoch 00520: val_mean_absolute_error
1185
     did not improve from 2.27144
1186 Epoch 521/10000
1187 - 0s - loss: 0.8826 -
     mean_absolute_error: 0.6025 - val_loss
       15.0641 - val_mean_absolute_error: 2
      3782
1188 Epoch 522/10000
1189 - 0s - loss: 0.8774 -
     mean_absolute_error: 0.5995 - val_loss
       15.1288 - val_mean_absolute_error:
     3798
1190 Epoch 523/10000
1191 - 0s - loss: 0.8777 -
     mean_absolute_error: 0.5925 - val_loss
```

```
15.3386 - val_mean_absolute_error: 2
1191
     3623
1192 Epoch 524/10000
     - 0s - loss: 0.8718 -
1193
     mean_absolute_error: 0.5893 - val_loss
       14.9228 - val_mean_absolute_error: 2
      3978
1194 Epoch 525/10000
1195
     - 0s - loss: 0.8787 -
     mean_absolute_error: 0.6028 - val_loss
       15.1345 - val_mean_absolute_error: 2
      3641
1196 Epoch 526/10000
     - 0s - loss: 0.8735 -
1197
     mean_absolute_error: 0.5972 - val_loss
       14.9964 - val_mean_absolute_error: 2
      3928
1198 Epoch 527/10000
1199 - 0s - loss: 0.8784
     mean_absolute_error: 0.5961 - val_loss
       15.0609 - val_mean_absolute_error: 2
      3748
1200 Epoch 528/10000
     - 0s - loss: 0.8744
1201 l
```

```
1201 mean_absolute_error: 0.5965 - val_loss
       15.1377 - val_mean_absolute_error: 2
      3627
1202 Epoch 529/10000
1203 - 0s - loss: 0.8787 -
     mean_absolute_error: 0.5972 - val_loss
       15.0672 - val_mean_absolute_error: 2
      3747
1204 Epoch 530/10000
1205 - 0s - loss: 0.8705 -
     mean_absolute_error: 0.5912 - val_loss
       15.1361 - val_mean_absolute_error: 2
     3804
1206
1207 Epoch 00530: val_mean_absolute_error
     did not improve from 2.27144
1208 Epoch 531/10000
1209 - 0s - loss: 0.8738 -
     mean_absolute_error: 0.5976 - val_loss
       14.8746 - val_mean_absolute_error:
     4105
1210 Epoch 532/10000
1211 - 0s - loss: 0.8858 -
     mean_absolute_error: 0.5963 - val_loss
```

```
15.0491 - val_mean_absolute_error: 2
1211
     3896
1212 Epoch 533/10000
     - 0s - loss: 0.8678 -
1213
    mean_absolute_error: 0.5974 - val_loss
      15.0500 - val_mean_absolute_error: 2
     3738
1214 Epoch 534/10000
     - 0s - loss: 0.8729 -
1215
    15.0269 - val_mean_absolute_error: 2
     3685
1216 Epoch 535/10000
     - 0s - loss: 0.8696 -
1217
    mean_absolute_error: 0.5989 - val_loss
      14.9482 - val_mean_absolute_error: 2
     3916
1218 Epoch 536/10000
1219 - 0s - loss: 0.8747 -
    mean_absolute_error: 0.5998 - val_loss
      15.1677 - val_mean_absolute_error: 2
     3883
1220 Epoch 537/10000
1221 - 0s - loss: 0.8842
```

```
1221 mean_absolute_error: 0.5950 - val_loss
       15.0914 - val_mean_absolute_error: 2
      3930
1222 Epoch 538/10000
     - 0s - loss: 0.8763 -
1223
     mean_absolute_error: 0.5931 - val_loss
       15.1257 - val_mean_absolute_error: 2
     3968
1224 Epoch 539/10000
1225 - 0s - loss: 0.8642 -
     mean_absolute_error: 0.5931 - val_loss
       15.2813 - val_mean_absolute_error: 2
     3718
1226 Epoch 540/10000
1227 - 0s - loss: 0.8598
     mean_absolute_error: 0.5906 - val_loss
     15.2021 - val_mean_absolute_error: 2
     . 3751
1228
1229 Epoch 00540: val_mean_absolute_error
     did not improve from 2.27144
1230 Epoch 541/10000
1231 - 0s - loss: 0.8697 -
     mean_absolute_error: 0.5920 - val_loss
```

```
14.9682 - val_mean_absolute_error: 2
1231
      3956
1232 Epoch 542/10000
     - 0s - loss: 0.8735 -
1233
     mean_absolute_error: 0.5935 - val_loss
       14.9677 - val_mean_absolute_error: 2
      4167
1234 Epoch 543/10000
1235
     - 0s - loss: 0.8747
     mean_absolute_error: 0.6059 - val_loss
       15.0620 - val_mean_absolute_error: 2
      3815
1236 Epoch 544/10000
     - 0s - loss: 0.8612 -
1237
     mean_absolute_error: 0.5911 - val_loss
       14.9845 - val_mean_absolute_error: 2
      3956
1238 Epoch 545/10000
     - 0s - loss: 0.8730 -
1239 l
     mean_absolute_error: 0.5942 - val_loss
       15.2307 - val_mean_absolute_error: 2
      3671
1240 Epoch 546/10000
     - 0s - loss: 0.8697
1241 l
```

```
1241 mean_absolute_error: 0.5927 - val_loss
       15.1324 - val_mean_absolute_error: 2
      3756
1242 Epoch 547/10000
     - 0s - loss: 0.8660 -
1243
     mean_absolute_error: 0.5915 - val_loss
       15.0551 - val_mean_absolute_error: 2
      3940
1244 Epoch 548/10000
1245 - 0s - loss: 0.8808 -
     mean_absolute_error: 0.5938 - val_loss
       15.2151 - val_mean_absolute_error: 2
     3677
1246 Epoch 549/10000
1247 - 0s - loss: 0.8656 -
     mean_absolute_error: 0.5916 - val_loss
       15.0795 - val_mean_absolute_error:
      3824
1248 Epoch 550/10000
     - 0s - loss: 0.8712 -
1249
     mean_absolute_error: 0.5945 - val_loss
       15.1247 - val_mean_absolute_error:
     . 3735
1250
```

```
1251 Epoch 00550: val_mean_absolute_error
     did not improve from 2.27144
1252 Epoch 551/10000
1253 - 0s - loss: 0.8600 -
     mean_absolute_error: 0.5929 - val_loss
       15.1558 - val_mean_absolute_error: 2
     3743
1254 Epoch 552/10000
     - 0s - loss: 0.8537 -
1255
     mean_absolute_error: 0.5832 - val_loss
       15.2080 - val_mean_absolute_error: 2
      3726
1256 Epoch 553/10000
     - 0s - loss: 0.8705 -
1257
     mean_absolute_error: 0.5913 - val_loss
      15.1761 - val_mean_absolute_error: 2
     . 3696
1258 Epoch 554/10000
1259 - 0s - loss: 0.8496 -
     mean_absolute_error: 0.5895 - val_loss
       15.2631 - val_mean_absolute_error: 2
      3729
1260 Epoch 555/10000
1261 - 0s - loss: 0.8658
```

```
1261 mean_absolute_error: 0.5852 - val_loss
      15.1642 - val_mean_absolute_error: 2
     3730
1262 Epoch 556/10000
1263 - 0s - loss: 0.8660 -
    mean_absolute_error: 0.5988 - val_loss
      15.3134 - val_mean_absolute_error: 2
     3705
1264 Epoch 557/10000
1265 - 0s - loss: 0.8578 -
    15.0200 - val_mean_absolute_error: 2
     3900
1266 Epoch 558/10000
1267 - 0s - Loss: 0.8661
    mean_absolute_error: 0.5904 - val_loss
      15.0645 - val_mean_absolute_error: 2
     3910
1268 Epoch 559/10000
1269 - 0s - loss: 0.8536 -
    mean_absolute_error: 0.5918 - val_loss
      15.4101 - val_mean_absolute_error:
     3826
1270 Epoch 560/10000
```

```
- 0s - loss: 0.8645 -
1271
     mean_absolute_error: 0.5891 - val_loss
       15.2656 - val_mean_absolute_error: 2
     . 3815
1272
1273 Epoch 00560: val_mean_absolute_error
     did not improve from 2.27144
1274 Epoch 561/10000
1275 - 0s - loss: 0.8648 -
     mean_absolute_error: 0.5906 - val_loss
       15.2862 - val_mean_absolute_error: 2
      3761
1276 Epoch 562/10000
     - 0s - loss: 0.8603 -
1277
     mean_absolute_error: 0.5895 - val_l<u>oss</u>
       15.2338 - val_mean_absolute_error: 2
      3849
1278 Epoch 563/10000
1279 - 0s - loss: 0.8569 -
     mean_absolute_error: 0.5827 - val_loss
       15.1688 - val_mean_absolute_error: 2
      3859
1280 Epoch 564/10000
1281 - 0s - loss: 0.8591
```

```
1281 mean_absolute_error: 0.5861 - val_loss
       15.2701 - val_mean_absolute_error: 2
     3772
1282
1283 Epoch 00564: ReduceLROnPlateau
     reducing learning rate to 1.
     0000000475e-05.
1284 Epoch 565/10000
     - 0s - loss: 0.8296 -
1285
     mean_absolute_error: 0.5753 - val_loss
       15.2353 - val_mean_absolute_error: 2
      3779
1286 Epoch 566/10000
     - 0s - loss: 0.8264 -
1287
     mean_absolute_error: 0.5726 - val_loss
       15.1958 - val_mean_absolute_error: 2
     3817
1288 Epoch 567/10000
     - 0s - loss: 0.8225 -
1289 l
     mean_absolute_error: 0.5696 - val_loss
       15.1795 - val_mean_absolute_error: 2
      3828
1290 Epoch 568/10000
     - 0s - loss: 0.8220 -
1291
```

```
1291 mean_absolute_error: 0.5689 - val_loss
       15.1649 - val_mean_absolute_error: 2
      3841
1292 Epoch 569/10000
     - 0s - loss: 0.8221
1293
     mean_absolute_error: 0.5695 - val_loss
       15.1578 - val_mean_absolute_error: 2
      3844
1294 Epoch 570/10000
1295 - 0s - loss: 0.8225 -
     mean_absolute_error: 0.5697 - val_loss
       15.1645 - val_mean_absolute_error: 2
     3829
1296
1297 Epoch 00570: val_mean_absolute_error
     did not improve from 2.27144
1298 Epoch 571/10000
1299 - 0s - loss: 0.8209 -
     mean_absolute_error: 0.5684 - val_loss
       15.1708 - val_mean_absolute_error:
     3818
1300 Epoch 572/10000
1301 - 0s - loss: 0.8206 -
     mean_absolute_error: 0.5687 - val_loss
```

```
15.1569 - val_mean_absolute_error: 2
1301
      3832
1302 Epoch 573/10000
     - 0s - loss: 0.8225 -
1303
     mean_absolute_error: 0.5696 - val_loss
       15.1555 - val_mean_absolute_error: 2
      3829
1304 Epoch 574/10000
     - 0s - loss: 0.8210 -
1305
     mean_absolute_error: 0.5681 - val_loss
       15.1601 - val_mean_absolute_error: 2
      3821
1306 Epoch 575/10000
     - 0s - loss: 0.8209 -
1307
     mean_absolute_error: 0.5684 - val_loss
       15.1487 - val_mean_absolute_error: 2
      3841
1308 Epoch 576/10000
     - 0s - loss: 0.8211
1309
     mean_absolute_error: 0.5691 - val_loss
       15.1636 - val_mean_absolute_error: 2
      3823
1310 Epoch 577/10000
     - 0s - loss: 0.8210 -
1311
```

```
1311 mean_absolute_error: 0.5688 - val_loss
       15.1560 - val_mean_absolute_error: 2
      3830
1312 Epoch 578/10000
     - 0s - loss: 0.8209 -
1313
     mean_absolute_error: 0.5691 - val_loss
       15.1606 - val_mean_absolute_error: 2
      3823
1314 Epoch 579/10000
1315
    - 0s - loss: 0.8209 -
     mean_absolute_error: 0.5674 - val_loss
       15.1711 - val_mean_absolute_error: 2
      3806
1316 Epoch 580/10000
1317 - 0s - Loss: 0.8201
     mean_absolute_error: 0.5683 - val_loss
     15.1660 - val_mean_absolute_error: 2
     . 3815
1318
    Epoch 00580: val_mean_absolute_error
1319
     did not improve from 2.27144
1320 Epoch 581/10000
1321 - 0s - loss: 0.8203 -
     mean_absolute_error: 0.5673 - val_loss
```

```
15.1800 - val_mean_absolute_error: 2
1321
     3801
1322 Epoch 582/10000
     - 0s - loss: 0.8213 -
1323
     mean_absolute_error: 0.5678 - val_loss
       15.1577 - val_mean_absolute_error: 2
     3822
1324 Epoch 583/10000
1325
     - 0s - loss: 0.8201
     mean_absolute_error: 0.5679 - val_loss
       15.1635 - val_mean_absolute_error: 2
      3808
1326 Epoch 584/10000
     - 0s - loss: 0.8201 -
1327
     mean_absolute_error: 0.5674 - val_loss
      15.1622 - val_mean_absolute_error: 2
     3819
1328 Epoch 585/10000
     - 0s - loss: 0.8209
1329
     mean_absolute_error: 0.5677 - val_loss
       15.1612 - val_mean_absolute_error: 2
      3814
1330 Epoch 586/10000
     - 0s - loss: 0.8202
1331
```

```
1331 mean_absolute_error: 0.5677 - val_loss
       15.1430 - val_mean_absolute_error: 2
      3830
1332 Epoch 587/10000
     - 0s - loss: 0.8200 -
1333
     mean_absolute_error: 0.5681 - val_loss
       15.1538 - val_mean_absolute_error: 2
     3812
1334 Epoch 588/10000
1335 - 0s - loss: 0.8207
     mean_absolute_error: 0.5688 - val_loss
       15.1544 - val_mean_absolute_error: 2
     3806
1336 Epoch 589/10000
1337 - 0s - loss: 0.8199
     mean_absolute_error: 0.5684 - val_loss
      15.1477 - val_mean_absolute_error:
      3820
1338 Epoch 590/10000
     - 0s - loss: 0.8202 -
1339
     mean_absolute_error: 0.5674 - val_loss
      15.1485 - val_mean_absolute_error:
     . 3816
1340
```

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```
1341 Epoch 00590: val_mean_absolute_error
     did not improve from 2.27144
1342 Epoch 591/10000
     - 0s - loss: 0.8205 -
1343
     mean_absolute_error: 0.5678 - val_loss
       15.1366 - val_mean_absolute_error: 2
      3829
1344 Epoch 592/10000
     - 0s - loss: 0.8186 -
1345
     mean_absolute_error: 0.5678 - val_loss
       15.1644 - val_mean_absolute_error: 2
      3799
1346 Epoch 593/10000
     - 0s - loss: 0.8191 -
1347
     mean_absolute_error: 0.5677 - val_loss
       15.1625 - val_mean_absolute_error: 2
      3799
1348 Epoch 594/10000
     - 0s - loss: 0.8201
1349
     mean_absolute_error: 0.5675 - val_loss
       15.1624 - val_mean_absolute_error: 2
      3794
1350 Epoch 595/10000
     - 0s - loss: 0.8201
1351
```

```
1351 mean_absolute_error: 0.5676 - val_loss
       15.1599 - val_mean_absolute_error: 2
      3795
1352 Epoch 596/10000
     - 0s - loss: 0.8198 -
1353
     mean_absolute_error: 0.5680 - val_loss
       15.1657 - val_mean_absolute_error: 2
      3793
1354 Epoch 597/10000
1355 - 0s - loss: 0.8189 -
     mean_absolute_error: 0.5671 - val_loss
       15.1625 - val_mean_absolute_error: 2
     3793
1356 Epoch 598/10000
1357 - 0s - Loss: 0.8198
     mean_absolute_error: 0.5671 - val_loss
       15.1532 - val_mean_absolute_error:
      3799
1358 Epoch 599/10000
     - 0s - loss: 0.8203 -
1359
     mean_absolute_error: 0.5678 - val_loss
       15.1549 - val_mean_absolute_error:
      3801
1360 Epoch 600/10000
```

```
- 0s - loss: 0.8200 -
1361
     mean_absolute_error: 0.5671 - val_loss
       15.1523 - val_mean_absolute_error: 2
     3803
1362
1363 Epoch 00600: val_mean_absolute_error
     did not improve from 2.27144
1364 Epoch 601/10000
     - 0s - loss: 0.8196 -
1365
     mean_absolute_error: 0.5678 - val_loss
       15.1619 - val_mean_absolute_error: 2
      3793
1366 Epoch 602/10000
     - 0s - loss: 0.8180 -
1367
     mean_absolute_error: 0.5667 - val_loss
       15.1667 - val_mean_absolute_error: 2
      3789
1368 Epoch 603/10000
1369
     - 0s - loss: 0.8190 -
     mean_absolute_error: 0.5674 - val_loss
       15.1652 - val_mean_absolute_error: 2
      3790
1370 Epoch 604/10000
     - 0s - loss: 0.8193
1371
```

```
1371 mean_absolute_error: 0.5673 - val_loss
       15.1590 - val_mean_absolute_error: 2
      3795
1372 Epoch 605/10000
1373 - 0s - loss: 0.8183 -
     mean_absolute_error: 0.5676 - val_loss
       15.1599 - val_mean_absolute_error: 2
      3796
1374 Epoch 606/10000
1375 - 0s - loss: 0.8206 -
     mean_absolute_error: 0.5675 - val_loss
       15.1566 - val_mean_absolute_error: 2
     3797
1376 Epoch 607/10000
1377 - 0s - loss: 0.8189 -
     mean_absolute_error: 0.5674 - val_loss
       15.1685 - val_mean_absolute_error:
     3785
1378 Epoch 608/10000
     - 0s - loss: 0.8186 -
1379
     mean_absolute_error: 0.5666 - val_loss
       15.1628 - val_mean_absolute_error:
      3795
1380 Epoch 609/10000
```

mean_absolute_error: 0.5673 - val_loss

15.<u>1544 - val_mean_absolute_error: 2</u>

3801

1390 Epoch 613/10000

1391 - 0s - loss: 0.8188 -

```
1391 mean_absolute_error: 0.5668 - val_loss
       15.1524 - val_mean_absolute_error: 2
      3803
1392 Epoch 614/10000
     - 0s - loss: 0.8189 -
1393
     mean_absolute_error: 0.5674 - val_loss
       15.1696 - val_mean_absolute_error: 2
      3782
1394 Epoch 615/10000
1395 - 0s - loss: 0.8181
     mean_absolute_error: 0.5662 - val_loss
       15.1668 - val_mean_absolute_error: 2
     3787
1396 Epoch 616/10000
1397 - 0s - loss: 0.8188
     mean_absolute_error: 0.5662 - val_loss
      15.1542 - val_mean_absolute_error:
     3803
1398 Epoch 617/10000
     - 0s - loss: 0.8179 -
1399
     mean_absolute_error: 0.5666 - val_loss
       15.1551 - val_mean_absolute_error:
      3794
1400 Epoch 618/10000
```

```
- 0s - loss: 0.8186 -
1401
     mean_absolute_error: 0.5671 - val_loss
       15.1593 - val_mean_absolute_error: 2
      3802
1402 Epoch 619/10000
     - 0s - loss: 0.8179 -
1403
     mean_absolute_error: 0.5670 - val_loss
       15.1364 - val_mean_absolute_error:
      3831
1404 Epoch 620/10000
1405 - 0s - loss: 0.8193 -
     mean_absolute_error: 0.5676 - val_loss
       15.1342 - val_mean_absolute_error:
     3826
1406
1407 Epoch 00620: val_mean_absolute_error
     did not improve from 2.27144
1408 Epoch 621/10000
1409 - 0s - loss: 0.8178 -
     mean_absolute_error: 0.5676 - val_l<u>oss</u>
       15.1452 - val_mean_absolute_error: 2
      3815
1410 Epoch 622/10000
     - 0s - loss: 0.8177
1411
```

```
1411 mean_absolute_error: 0.5670 - val_loss
       15.1536 - val_mean_absolute_error: 2
      3812
1412 Epoch 623/10000
1413 - 0s - loss: 0.8185 -
     mean_absolute_error: 0.5665 - val_loss
       15.1540 - val_mean_absolute_error: 2
      3819
1414 Epoch 624/10000
1415 - 0s - loss: 0.8176 -
     mean_absolute_error: 0.5661 - val_loss
       15.1609 - val_mean_absolute_error: 2
     3804
1416 Epoch 625/10000
1417 - 0s - loss: 0.8180 -
     mean_absolute_error: 0.5661 - val_loss
       15.1601 - val_mean_absolute_error: 2
      3796
1418 Epoch 626/10000
1419 - 0s - loss: 0.8185 -
     mean_absolute_error: 0.5660 - val_loss
       15.1572 - val_mean_absolute_error:
      3803
1420 Epoch 627/10000
```

```
- 0s - loss: 0.8180 -
1421
     mean_absolute_error: 0.5657 - val_loss
       15.1715 - val_mean_absolute_error: 2
      3790
1422 Epoch 628/10000
     - 0s - loss: 0.8174 -
1423
     mean_absolute_error: 0.5660 - val_loss
       15.1691 - val_mean_absolute_error: 2
      3796
1424 Epoch 629/10000
1425 - 0s - loss: 0.8179 -
     mean_absolute_error: 0.5660 - val_loss
       15.1629 - val_mean_absolute_error: 2
      3800
1426 Epoch 630/10000
     - 0s - loss: 0.8187 -
1427
     mean_absolute_error: 0.5665 - val_loss
       15.1666 - val_mean_absolute_error: 2
     . 3795
1428
1429 Epoch 00630: val_mean_absolute_error
     did not improve from 2.27144
1430 Epoch 631/10000
1431 <u>- 0s - loss: 0.8184</u>
```

```
1431 mean_absolute_error: 0.5661 - val_loss
       15.1631 - val_mean_absolute_error: 2
      3789
1432 Epoch 632/10000
     - 0s - loss: 0.8177 -
1433
     mean_absolute_error: 0.5659 - val_loss
       15.1693 - val_mean_absolute_error: 2
     3782
1434 Epoch 633/10000
1435 - 0s - loss: 0.8186 -
     mean_absolute_error: 0.5660 - val_loss
       15.1653 - val_mean_absolute_error: 2
     3782
1436 Epoch 634/10000
1437 - 0s - loss: 0.8174
     mean_absolute_error: 0.5652 - val_loss
      15.1711 - val_mean_absolute_error:
     3777
1438 Epoch 635/10000
     - 0s - loss: 0.8178 -
1439
     mean_absolute_error: 0.5657 - val_loss
       15.1723 - val_mean_absolute_error:
      3776
1440 Epoch 636/10000
```

```
- 0s - loss: 0.8168 -
1441
     mean_absolute_error: 0.5663 - val_loss
       15.1850 - val_mean_absolute_error: 2
      3767
1442 Epoch 637/10000
     - 0s - loss: 0.8170 -
1443
     mean_absolute_error: 0.5656 - val_loss
       15.1703 - val_mean_absolute_error: 2
      3793
1444 Epoch 638/10000
1445 - 0s - loss: 0.8164 -
     mean_absolute_error: 0.5652 - val_loss
       15.1778 - val_mean_absolute_error: 2
     3785
1446 Epoch 639/10000
     - 0s - loss: 0.8172 -
1447 |
     mean_absolute_error: 0.5658 - val_loss
       15.1630 - val_mean_absolute_error: 2
      3801
1448 Epoch 640/10000
     - 0s - loss: 0.8171 -
1449
     mean_absolute_error: 0.5667 - val_loss
       15.1631 - val_mean_absolute_error: 2
     3806
```

```
1450
    Epoch 00640: val_mean_absolute_error
1451
     did not improve from 2.27144
1452 Epoch 641/10000
1453 - 0s - loss: 0.8187 -
     mean_absolute_error: 0.5665 - val_loss
       15.1610 - val_mean_absolute_error: 2
      3799
1454 Epoch 642/10000
1455 - 0s - loss: 0.8167 -
     mean_absolute_error: 0.5660 - val_loss
       15.1575 - val_mean_absolute_error: 2
      3798
1456 Epoch 643/10000
1457 - 0s - Loss: 0.8171
     mean_absolute_error: 0.5672 - val_loss
       15.1633 - val_mean_absolute_error:
      3797
1458 Epoch 644/10000
     - 0s - loss: 0.8175 -
1459
     mean_absolute_error: 0.5661 - val_loss
       15.1593 - val_mean_absolute_error:
      3798
1460 Epoch 645/10000
```

```
- 0s - loss: 0.8164 -
1461
     mean_absolute_error: 0.5659 - val_loss
       15.1530 - val_mean_absolute_error: 2
      3812
1462 Epoch 646/10000
     - 0s - Loss: 0.8166 -
1463
     mean_absolute_error: 0.5663 - val_loss
       15.1580 - val_mean_absolute_error: 2
      3818
1464 Epoch 647/10000
1465 - 0s - loss: 0.8166 -
     mean_absolute_error: 0.5660 - val_loss
      15.1634 - val_mean_absolute_error: 2
      3813
1466 Epoch 648/10000
     - 0s - loss: 0.8174 -
1467
     mean_absolute_error: 0.5660 - val_loss
       15.1516 - val_mean_absolute_error: 2
      3820
1468 Epoch 649/10000
     - 0s - loss: 0.8167 -
1469
     mean_absolute_error: 0.5662 - val_loss
      15.1477 - val_mean_absolute_error: 2
     3827
```

15.1452 - val_mean_absolute_error:

3816

1480 Epoch 654/10000

```
- 0s - loss: 0.8170 -
1481
     mean_absolute_error: 0.5660 - val_loss
       15.1511 - val_mean_absolute_error: 2
      3807
1482 Epoch 655/10000
     - 0s - Loss: 0.8166 -
1483
     mean_absolute_error: 0.5663 - val_loss
       15.1692 - val_mean_absolute_error: 2
      3796
1484 Epoch 656/10000
1485 - 0s - loss: 0.8167 -
     mean_absolute_error: 0.5658 - val_loss
       15.1622 - val_mean_absolute_error: 2
      3801
1486 Epoch 657/10000
     - 0s - loss: 0.8157 -
1487
     mean_absolute_error: 0.5657 - val_loss
       15.1565 - val_mean_absolute_error: 2
      3808
1488 Epoch 658/10000
     - 0s - loss: 0.8163 -
1489
     mean_absolute_error: 0.5659 - val_loss
       15.1594 - val_mean_absolute_error: 2
     3804
```

1500 Epoch 663/10000

3808

1509 - 0s - loss: 0.8124 - mean_absolute_error: 0.5640 - val_loss : 15.1614 - val_mean_absolute_error: 2 .3815

1510 Epoch 667/10000

```
- 0s - loss: 0.8124 -
1511
     mean_absolute_error: 0.5640 - val_loss
       15.1621 - val_mean_absolute_error: 2
      3814
1512 Epoch 668/10000
     - 0s - loss: 0.8123 -
1513 l
     mean_absolute_error: 0.5639 - val_loss
       15.1626 - val_mean_absolute_error: 2
      3813
1514 Epoch 669/10000
1515 - 0s - loss: 0.8124 -
     mean_absolute_error: 0.5639 - val_loss
       15.1628 - val_mean_absolute_error:
      3813
1516 Epoch 670/10000
     - 0s - loss: 0.8123 -
1517 l
     mean_absolute_error: 0.5639 - val_loss
       15.1640 - val_mean_absolute_error: 2
     3811
1518
    Epoch 00670: val_mean_absolute_error
1519
     did not improve from 2.27144
1520 Epoch 671/10000
1521 - 0s - loss: 0.8122
```

```
1521 mean_absolute_error: 0.5639 - val_loss
       15.1639 - val_mean_absolute_error: 2
      3810
1522 Epoch 672/10000
1523 - 0s - Loss: 0.8121 -
     mean_absolute_error: 0.5639 - val_loss
       15.1632 - val_mean_absolute_error: 2
     3811
1524 Epoch 673/10000
1525 - 0s - loss: 0.8122 -
     mean_absolute_error: 0.5639 - val_loss
      15.1636 - val_mean_absolute_error: 2
     3811
1526 Epoch 674/10000
1527 - 0s - loss: 0.8122 -
     mean_absolute_error: 0.5637 - val_loss
     15.1648 - val_mean_absolute_error: 2
      3809
1528 Epoch 675/10000
1529 - 0s - loss: 0.8121 -
     mean_absolute_error: 0.5637 - val_loss
       15.1640 - val_mean_absolute_error:
      3809
1530 Epoch 676/10000
```

```
- 0s - loss: 0.8120 -
1531
     mean_absolute_error: 0.5638 - val_loss
       15.1647 - val_mean_absolute_error: 2
      3808
1532 Epoch 677/10000
     - 0s - loss: 0.8121 -
1533
     mean_absolute_error: 0.5638 - val_loss
       15.1650 - val_mean_absolute_error: 2
      3808
1534 Epoch 678/10000
1535 - Os - Loss: 0.8121 -
     mean_absolute_error: 0.5638 - val_loss
       15.1647 - val_mean_absolute_error:
      3807
1536 Epoch 679/10000
     - 0s - loss: 0.8121 -
1537
     mean_absolute_error: 0.5639 - val_loss
       15.1649 - val_mean_absolute_error: 2
      3807
1538 Epoch 680/10000
     - 0s - loss: 0.8120 -
1539
     mean_absolute_error: 0.5638 - val_loss
     : 15.1650 - val_mean_absolute_error: 2
     3807
```

```
1540
    Epoch 00680: val_mean_absolute_error
1541
     did not improve from 2.27144
1542 Epoch 681/10000
1543 - 0s - loss: 0.8121 -
     mean_absolute_error: 0.5638 - val_loss
       15.1652 - val_mean_absolute_error: 2
      3806
1544 Epoch 682/10000
1545 - 0s - Loss: 0.8121
     mean_absolute_error: 0.5638 - val_loss
       15.1647 - val_mean_absolute_error: 2
     3808
1546 Epoch 683/10000
1547 - 0s - loss: 0.8119 -
     mean_absolute_error: 0.5637 - val_loss
      15.1651 - val_mean_absolute_error:
     3807
1548 Epoch 684/10000
     - 0s - loss: 0.8120 -
1549
     mean_absolute_error: 0.5638 - val_loss
       15.1651 - val_mean_absolute_error:
      3807
1550 Epoch 685/10000
```

```
- 0s - loss: 0.8120 -
1551
    mean_absolute_error: 0.5637 - val_loss
      15.1656 - val_mean_absolute_error: 2
     3806
1552 Epoch 686/10000
     - 0s - loss: 0.8119 -
1553
    mean_absolute_error: 0.5637 - val_loss
      15.1648 - val_mean_absolute_error: 2
     3806
1554 Epoch 687/10000
1555 - 0s - loss: 0.8119 -
    mean_absolute_error: 0.5638 - val_loss
      15.1652 - val_mean_absolute_error: 2
     3805
1556 Epoch 688/10000
     - 0s - loss: 0.8118 -
1557 l
    15.1657 - val_mean_absolute_error: 2
     3805
1558 Epoch 689/10000
     - 0s - loss: 0.8119 -
1559
    mean_absolute_error: 0.5638 - val_loss
    : 15.1657 - val_mean_absolute_error: 2
     3805
```

```
- 0s - loss: 0.8118 -
1571
    15.1657 - val_mean_absolute_error: 2
     3806
1572 Epoch 695/10000
    - 0s - loss: 0.8117 -
1573 l
    mean_absolute_error: 0.5637 - val_loss
      15.1656 - val_mean_absolute_error: 2
     3806
1574 Epoch 696/10000
1575 - 0s - loss: 0.8118 -
    mean_absolute_error: 0.5637 - val_loss
      15.1651 - val_mean_absolute_error:
     3806
1576 Epoch 697/10000
1577 - 0s - Loss: 0.8118 -
    15. 1650 - val_mean_absolute_error: 2
     3807
1578 Epoch 698/10000
    - 0s - loss: 0.8117 -
1579
    mean_absolute_error: 0.5638 - val_loss
      15.1654 - val_mean_absolute_error: 2
     3806
```

1590 Epoch 703/10000

```
- 0s - loss: 0.8118 -
1591
    15.1658 - val_mean_absolute_error: 2
     3806
1592 Epoch 704/10000
     - 0s - loss: 0.8117 -
1593
    mean_absolute_error: 0.5638 - val_loss
      15.1668 - val_mean_absolute_error: 2
     3804
1594 Epoch 705/10000
1595 - 0s - loss: 0.8116 -
    mean_absolute_error: 0.5637 - val_loss
      15.1676 - val_mean_absolute_error:
     3803
1596 Epoch 706/10000
     - 0s - loss: 0.8118 -
1597
    mean_absolute_error: 0.5636 - val_loss
      15.1674 - val_mean_absolute_error: 2
     3803
1598 Epoch 707/10000
     - 0s - loss: 0.8117 -
1599
    mean_absolute_error: 0.5638 - val_loss
    : 15.1675 - val_mean_absolute_error: 2
     3803
```

1609 - Os - Loss: 0.8117
mean_absolute_error: 0.5636 - val_loss
: 15.1669 - val_mean_absolute_error: 2
.3803

1610 Epoch 712/10000

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```
- 0s - loss: 0.8116 -
1611
     mean_absolute_error: 0.5637 - val_loss
       15.1672 - val_mean_absolute_error: 2
      3803
1612 Epoch 713/10000
1613 - 0s - loss: 0.8116 -
     mean_absolute_error: 0.5637 - val_loss
       15.1668 - val_mean_absolute_error: 2
      3805
1614 Epoch 714/10000
1615 - 0s - loss: 0.8117 -
     mean_absolute_error: 0.5637 - val_loss
       15.1666 - val_mean_absolute_error: 2
      3805
1616 Epoch 715/10000
1617 - 0s - loss: 0.8117 -
     mean_absolute_error: 0.5637 - val_loss
       15.1657 - val_mean_absolute_error: 2
      3806
1618 Epoch 716/10000
     - 0s - loss: 0.8116 -
1619
     mean_absolute_error: 0.5637 - val_loss
     : 15.1660 - val_mean_absolute_error: 2
     3805
```

Epoch 00720: val_mean_absolute_error did not improve from 2.27144

1630 Epoch 721/10000

```
- 0s - loss: 0.8116 -
1631
     mean_absolute_error: 0.5637 - val_loss
       15.1671 - val_mean_absolute_error: 2
      3804
1632 Epoch 722/10000
1633 - 0s - loss: 0.8116 -
     mean_absolute_error: 0.5636 - val_loss
       15.1673 - val_mean_absolute_error: 2
      3804
1634 Epoch 723/10000
1635 - 0s - loss: 0.8115 -
     mean_absolute_error: 0.5637 - val_loss
       15.1674 - val_mean_absolute_error: 2
      3804
1636 Epoch 724/10000
     - 0s - loss: 0.8116 -
1637 l
     mean_absolute_error: 0.5637 - val_loss
       15.1676 - val_mean_absolute_error: 2
      3803
1638 Epoch 725/10000
     - 0s - loss: 0.8116 -
1639
     mean_absolute_error: 0.5638 - val_loss
       15.1671 - val_mean_absolute_error: 2
     3804
```

1642 Epoch 727/10000

3804

1643 - Os - Loss: 0.8115 - mean_absolute_error: 0.5637 - val_loss

: 15.1681 - val_mean_absolute_error: 2

3803

1644 Epoch 728/10000

1645 - Os - Loss: 0.8116 -

mean_absolute_error: 0.5636 - val_loss

: 15.1681 - val_mean_absolute_error: 2

3803

1646 Epoch 729/10000

1647 - 0s - Ioss: 0.8117 -

mean_absolute_error: 0.5637 - val_loss

: 15.1678 - val_mean_absolute_error: 2

3803

1648 Epoch 730/10000

1649 - 0s - loss: 0.8115 -

mean_absolute_error: 0.5636 - val_loss

15.1686 - val_mean_absolute_error: 2

```
File - boston01
1649 . 3802
1650
1651 Epoch 00730: val_mean_absolute_error
     did not improve from 2.27144
1652 Epoch 731/10000
1653 - 0s - loss: 0.8116 -
     mean_absolute_error: 0.5636 - val_loss
       15.1675 - val_mean_absolute_error: 2
      3803
1654 Epoch 732/10000
1655 - 0s - loss: 0.8115 -
     mean_absolute_error: 0.5636 - val_loss
       15.1690 - val_mean_absolute_error: 2
      3802
1656 Epoch 733/10000
1657 - 0s - loss: 0.8115 -
     mean_absolute_error: 0.5636 - val_loss
       15. 1684 - val_mean_absolute_error: 2
      3803
1658 Epoch 734/10000
      - 0s - loss: 0.8116 -
1659
     mean_absolute_error: 0.5637 - val_loss
     : 15.1681 - val_mean_absolute_error: 2
      3803
```

1668 Epoch 739/10000

1669 - Os - Loss: 0.8115 - mean_absolute_error: 0.5636 - val_loss

```
File - boston01
1669 . 3803
1670 Epoch 740/10000
1671 - 0s - loss: 0.8115 -
     mean_absolute_error: 0.5636 - val_loss
       15.1694 - val_mean_absolute_error: 2
      3802
1672
1673 Epoch 00740: val_mean_absolute_error
     did not improve from 2.27144
1674 Epoch 741/10000
1675 - 0s - loss: 0.8115 -
     mean_absolute_error: 0.5636 - val_loss
       15.1688 - val_mean_absolute_error:
      3802
1676 Epoch 742/10000
1677 - 0s - Loss: 0.8115 -
     mean_absolute_error: 0.5636 - val_loss
       15.1678 - val_mean_absolute_error: 2
      3803
1678 Epoch 743/10000
      - 0s - loss: 0.8114 -
1679
     mean_absolute_error: 0.5636 - val_loss
       15.1680 - val_mean_absolute_error: 2
      3803
```

1688 Epoch 748/10000

1689 - Os - Loss: 0.8114 - mean_absolute_error: 0.5636 - val_loss: 15.1677 - val_mean_absolute_error: 2

```
File - boston01
      . 3803
1689
1690 Epoch 749/10000
      - 0s - loss: 0.8113
1691
     mean_absolute_error: 0.5636 - val_loss
       15.1675 - val_mean_absolute_error: 2
      3803
1692 Epoch 750/10000
1693 - 0s - loss: 0.8115 -
     mean_absolute_error: 0.5636 - val_loss
      15.1668 - val_mean_absolute_error:
      . 3803
1694
1695 Epoch 00750: val_mean_absolute_error
     did not improve from 2.27144
1696 Epoch 751/10000
      - 0s - loss: 0.8115 -
1697
     mean_absolute_error: 0.5637 - val_loss
       15.1680 - val_mean_absolute_error: 2
      3802
1698 Epoch 752/10000
1699
      - 0s - loss: 0.8113 -
     mean_absolute_error: 0.5636 - val_loss
     : 15.1676 - val_mean_absolute_error: 2
      3803
```

1708 Epoch 757/10000

1709 - 0s - loss: 0.8113 - mean_absolute_error: 0.5636 - val_loss : 15.1695 - val_mean_absolute_error: 2

1730 Epoch 766/10000

```
- 0s - loss: 0.8113 -
1731
    15.1671 - val_mean_absolute_error: 2
     3804
1732 Epoch 767/10000
     - 0s - loss: 0.8113 -
1733 I
    mean_absolute_error: 0.5636 - val_loss
      15.1671 - val_mean_absolute_error: 2
     3804
1734 Epoch 768/10000
1735 - 0s - loss: 0.8113 -
    mean_absolute_error: 0.5635 - val_loss
      15.1676 - val_mean_absolute_error: 2
     3803
1736 Epoch 769/10000
     - 0s - loss: 0.8113 -
1737
    mean_absolute_error: 0.5635 - val_loss
      15.1674 - val_mean_absolute_error: 2
     3804
1738 Epoch 770/10000
     - 0s - loss: 0.8115 -
1739
    mean_absolute_error: 0.5636 - val_loss
    : 15.1678 - val_mean_absolute_error: 2
     3803
```

```
1740
    Epoch 00770: val_mean_absolute_error
1741
    did not improve from 2.27144
1742 Epoch 771/10000
1743 - 0s - loss: 0.8114 -
    mean_absolute_error: 0.5636 - val_loss
      15.1679 - val_mean_absolute_error: 2
     3803
1744 Epoch 772/10000
1745 - 0s - loss: 0.8113 -
    15.1689 - val_mean_absolute_error: 2
     3801
1746 Epoch 773/10000
1747 - Os - Loss: 0.8112 -
    mean_absolute_error: 0.5636 - val_loss
      15.1694 - val_mean_absolute_error:
     3801
1748 Epoch 774/10000
1749 - 0s - loss: 0.8112 -
    mean_absolute_error: 0.5635 - val_loss
      15.1703 - val_mean_absolute_error:
     3800
1750 Epoch 775/10000
```

```
- 0s - loss: 0.8112 -
1751
     mean_absolute_error: 0.5635 - val_loss
       15.1698 - val_mean_absolute_error: 2
      3799
1752 Epoch 776/10000
     - 0s - loss: 0.8113 -
1753
     mean_absolute_error: 0.5636 - val_loss
       15.1697 - val_mean_absolute_error: 2
      3799
1754 Epoch 777/10000
1755 - 0s - loss: 0.8113 -
     mean_absolute_error: 0.5636 - val_loss
       15.1703 - val_mean_absolute_error: 2
      3799
1756 Epoch 778/10000
1757 - 0s - Loss: 0.8113 -
     mean_absolute_error: 0.5635 - val_loss
       15.1703 - val_mean_absolute_error: 2
      3800
1758 Epoch 779/10000
     - 0s - loss: 0.8113 -
1759
     mean_absolute_error: 0.5635 - val_loss
     : 15.1692 - val_mean_absolute_error: 2
     3801
```

1770 Epoch 784/10000

```
- 0s - loss: 0.8113 -
1771
    15.1681 - val_mean_absolute_error: 2
     3803
1772 Epoch 785/10000
1773 - 0s - loss: 0.8112 -
    mean_absolute_error: 0.5636 - val_loss
      15.1686 - val_mean_absolute_error: 2
     3802
1774 Epoch 786/10000
1775 - 0s - loss: 0.8113 -
    mean_absolute_error: 0.5635 - val_loss
      15.1693 - val_mean_absolute_error: 2
     3802
1776 Epoch 787/10000
1777 - 0s - loss: 0.8112 -
    mean_absolute_error: 0.5635 - val_loss
      15.1687 - val_mean_absolute_error: 2
     3802
1778 Epoch 788/10000
1779 - Os - Loss: 0.8113 -
    mean_absolute_error: 0.5636 - val_loss
    : 15.1686 - val_mean_absolute_error: 2
     3803
```

1790 Epoch 793/10000

```
- 0s - loss: 0.8112 -
1791
     mean_absolute_error: 0.5635 - val_loss
       15.1666 - val_mean_absolute_error: 2
      3804
1792 Epoch 794/10000
     - 0s - loss: 0.8111 -
1793
     mean_absolute_error: 0.5636 - val_loss
       15.1668 - val_mean_absolute_error: 2
      3805
1794 Epoch 795/10000
1795 - 0s - loss: 0.8112 -
     mean_absolute_error: 0.5635 - val_loss
       15.1667 - val_mean_absolute_error: 2
      3805
1796 Epoch 796/10000
     - 0s - loss: 0.8112 -
1797
     mean_absolute_error: 0.5635 - val_loss
       15.1675 - val_mean_absolute_error: 2
      3803
1798 Epoch 797/10000
     - 0s - loss: 0.8112 -
1799
     mean_absolute_error: 0.5634 - val_loss
     : 15.1674 - val_mean_absolute_error: 2
     3804
```

1810 Epoch 802/10000

3806

```
- 0s - loss: 0.8112 -
1811
    15.1652 - val_mean_absolute_error: 2
     3807
1812 Epoch 803/10000
     - 0s - loss: 0.8112 -
1813 |
    mean_absolute_error: 0.5635 - val_loss
      15.1658 - val_mean_absolute_error: 2
     3806
1814 Epoch 804/10000
1815 - Os - Loss: 0.8111 -
    mean_absolute_error: 0.5635 - val_loss
      15.1658 - val_mean_absolute_error:
     3806
1816 Epoch 805/10000
1817 - 0s - Loss: 0.8111 -
    mean_absolute_error: 0.5635 - val_loss
      15.1657 - val_mean_absolute_error: 2
     3806
1818 Epoch 806/10000
     - 0s - loss: 0.8112 -
1819
    mean_absolute_error: 0.5635 - val_loss
    : 15.1654 - val_mean_absolute_error: 2
     3806
```

1829 Epoch 00810: val_mean_absolute_error did not improve from 2.27144

1830 Epoch 811/10000

```
- 0s - loss: 0.8111 -
1831
     mean_absolute_error: 0.5635 - val_loss
       15.1652 - val_mean_absolute_error: 2
      3805
1832 Epoch 812/10000
     - 0s - loss: 0.8110 -
1833
     mean_absolute_error: 0.5635 - val_loss
       15.1657 - val_mean_absolute_error:
      3805
1834 Epoch 813/10000
1835 - Os - Loss: 0.8111 -
     mean_absolute_error: 0.5636 - val_loss
       15.1658 - val_mean_absolute_error:
      3805
1836 Epoch 814/10000
     - 0s - loss: 0.8111 -
1837
     mean_absolute_error: 0.5635 - val_loss
       15.1660 - val_mean_absolute_error: 2
      3805
1838 Epoch 815/10000
     - 0s - loss: 0.8110 -
1839
     mean_absolute_error: 0.5634 - val_loss
       15.1659 - val_mean_absolute_error: 2
     3806
```

1848 Epoch 820/10000

1849 - 0s - loss: 0.8111 - mean_absolute_error: 0.5634 - val_loss : 15.1644 - val_mean_absolute_error: 2

```
File - boston01
      . 3806
1849
1850
1851 Epoch 00820: val_mean_absolute_error
     did not improve from 2.27144
1852 Epoch 821/10000
1853 - Os - Loss: 0.8110 -
     mean_absolute_error: 0.5634 - val_loss
       15.1647 - val_mean_absolute_error: 2
      3806
1854 Epoch 822/10000
1855 - Os - Loss: 0.8111 -
     mean_absolute_error: 0.5634 - val_loss
       15.1646 - val_mean_absolute_error: 2
      3806
1856 Epoch 823/10000
      - 0s - loss: 0.8110 -
1857 l
     mean_absolute_error: 0.5634 - val_loss
       15.1659 - val_mean_absolute_error: 2
      3805
1858 Epoch 824/10000
      - 0s - loss: 0.8110 -
1859
     mean_absolute_error: 0.5634 - val_loss
     : 15.1657 - val_mean_absolute_error: 2
      3805
```

1868 Epoch 829/10000 1869 - 0s - Loss: 0.8110 -

mean_absolute_error: 0.5634 - val_loss : 15.1661 - val_mean_absolute_error: 2

```
File - boston01
1869 . 3804
1870 Epoch 830/10000
      - 0s - loss: 0.8109 -
1871
     mean_absolute_error: 0.5635 - val_loss
       15.1655 - val_mean_absolute_error: 2
      3805
1872
1873 Epoch 00830: val_mean_absolute_error
     did not improve from 2.27144
1874 Epoch 831/10000
1875 - Os - Loss: 0.8109 -
     mean_absolute_error: 0.5634 - val_loss
       15.1657 - val_mean_absolute_error: 2
      3805
1876 Epoch 832/10000
1877 - 0s - loss: 0.8110 -
     mean_absolute_error: 0.5635 - val_loss
       15.1669 - val_mean_absolute_error: 2
      3803
1878 Epoch 833/10000
      - 0s - loss: 0.8109 -
1879
     mean_absolute_error: 0.5634 - val_loss
     : 15.1673 - val_mean_absolute_error: 2
      3803
```

1888 Epoch 838/10000

1889 - Os - Loss: 0.8110 - mean_absolute_error: 0.5634 - val_loss : 15.1652 - val_mean_absolute_error: 2

```
File - boston01
      . 3804
1889
1890 Epoch 839/10000
      - 0s - loss: 0.8109
1891
     mean_absolute_error: 0.5634 - val_loss
       15.1656 - val_mean_absolute_error: 2
      3804
1892 Epoch 840/10000
1893 - 0s - loss: 0.8110 -
     mean_absolute_error: 0.5633 - val_loss
       15.1655 - val_mean_absolute_error:
      . 3804
1894
1895 Epoch 00840: val_mean_absolute_error
     did not improve from 2.27144
1896 Epoch 841/10000
      - 0s - loss: 0.8109 -
1897 |
     mean_absolute_error: 0.5634 - val_loss
       15.1655 - val_mean_absolute_error: 2
      3804
1898 Epoch 842/10000
      - 0s - loss: 0.8110 -
1899
     mean_absolute_error: 0.5634 - val_loss
     : 15.1669 - val_mean_absolute_error: 2
      3802
```

. 3804 1908 Epoch 847/10000 1909 - Os - Loss: 0.8109 mean_absolute_error: 0.5634 - val_loss

15.1661 - val_mean_absolute_error: 2

1928 Epoch 856/10000 1929 - Os - Loss: 0.8109 mean_absolute_error: 0.5634 - val_loss

15.1666 - val_mean_absolute_error: 2

```
File - boston01
      . 3805
1929
1930 Epoch 857/10000
      - 0s - loss: 0.8108
1931
     mean_absolute_error: 0.5634 - val_loss
       15.1670 - val_mean_absolute_error: 2
      3805
1932 Epoch 858/10000
1933 - 0s - loss: 0.8110
     mean_absolute_error: 0.5633 - val_loss
       15.1666 - val_mean_absolute_error:
      3805
1934 Epoch 859/10000
1935
      - 0s - loss: 0.8109 -
     mean_absolute_error: 0.5633 - val_loss
       15.1667 - val_mean_absolute_error:
      3805
1936 Epoch 860/10000
      - 0s - loss: 0.8108 -
1937
     mean_absolute_error: 0.5633 - val_loss
       15.1666 - val_mean_absolute_error:
      3805
1938
     Epoch 00860: val_mean_absolute_error
1939
     did not improve from 2.27144
```

1948 Epoch 865/10000

1949 - Os - Loss: 0.8108 - mean_absolute_error: 0.5634 - val_loss

15.1659 - val_mean_absolute_error: 2

```
File - boston01
      . 3805
1949
1950 Epoch 866/10000
      - 0s - loss: 0.8108
1951
     mean_absolute_error: 0.5633 - val_loss
       15.1662 - val_mean_absolute_error: 2
      3805
1952 Epoch 867/10000
1953 - 0s - loss: 0.8108
     mean_absolute_error: 0.5634 - val_loss
       15.1664 - val_mean_absolute_error:
      3804
1954 Epoch 868/10000
      - 0s - loss: 0.8107
1955
     mean_absolute_error: 0.5633 - val_loss
       15.1656 - val_mean_absolute_error:
      3805
1956 Epoch 869/10000
1957 - 0s - loss: 0.8108 -
     mean_absolute_error: 0.5633 - val_loss
       15.1671 - val_mean_absolute_error:
      3803
1958 Epoch 870/10000
1959 - 0s - loss: 0.8107 -
     mean_absolute_error: 0.5633 - val_loss
```

```
15.1671 - val_mean_absolute_error:
1959
     3803
1960
    Epoch 00870: val_mean_absolute_error
1961
     did not improve from 2.27144
1962 Epoch 871/10000
     - 0s - loss: 0.8108 -
1963
     mean_absolute_error: 0.5633 - val_loss
       15.1682 - val_mean_absolute_error: 2
      3802
1964 Epoch 872/10000
     - 0s - loss: 0.8108 -
1965
     mean_absolute_error: 0.5633 - val_loss
       15.1679 - val_mean_absolute_error: 2
      3803
1966 Epoch 873/10000
     - 0s - loss: 0.8108 -
1967
     mean_absolute_error: 0.5633 - val_loss
       15.1676 - val_mean_absolute_error: 2
     3804
1968 Epoch 874/10000
1969 - 0s - Loss: 0.8107
     mean_absolute_error: 0.5632 - val_loss
      15.1678 - val_mean_absolute_error: 2
```

```
File - boston01
      . 3803
1969
1970 Epoch 875/10000
1971
      - 0s - loss: 0.8108
     mean_absolute_error: 0.5633 - val_loss
       15.1680 - val_mean_absolute_error: 2
      3804
1972 Epoch 876/10000
1973 - 0s - loss: 0.8108
     mean_absolute_error: 0.5632 - val_loss
       15.1682 - val_mean_absolute_error:
      3803
1974 Epoch 877/10000
1975
      - 0s - loss: 0.8108 -
     mean_absolute_error: 0.5632 - val_loss
       15.1677 - val_mean_absolute_error:
      3805
1976 Epoch 878/10000
1977 - 0s - loss: 0.8108 -
     mean_absolute_error: 0.5633 - val_loss
       15.1661 - val_mean_absolute_error:
      3806
1978 Epoch 879/10000
1979 - 0s - loss: 0.8108 -
     mean_absolute_error: 0.5632 - val_loss
```

```
15.1671 - val_mean_absolute_error: 2
1979
     3806
1980 Epoch 880/10000
     - 0s - loss: 0.8108 -
1981
     mean_absolute_error: 0.5633 - val_loss
       15.1665 - val_mean_absolute_error: 2
     3806
1982
1983 Epoch 00880: val_mean_absolute_error
     did not improve from 2.27144
1984 Epoch 881/10000
    - 0s - loss: 0.8107 -
1985
     mean_absolute_error: 0.5633 - val_loss
       15.1671 - val_mean_absolute_error: 2
     3806
1986 Epoch 882/10000
     - 0s - loss: 0.8108 -
1987
     mean_absolute_error: 0.5632 - val_loss
       15.1671 - val_mean_absolute_error: 2
     3805
1988 Epoch 883/10000
1989 - 0s - Loss: 0.8109
     mean_absolute_error: 0.5632 - val_loss
      15.1668 - val_mean_absolute_error: 2
```

```
File - boston01
      . 3805
1989
1990 Epoch 884/10000
      - 0s - loss: 0.8108
1991
     mean_absolute_error: 0.5632 - val_loss
       15.1664 - val_mean_absolute_error: 2
      3806
1992 Epoch 885/10000
1993 - 0s - loss: 0.8108
     mean_absolute_error: 0.5632 - val_loss
       15.1665 - val_mean_absolute_error:
      3806
1994 Epoch 886/10000
      - 0s - loss: 0.8107
1995
     mean_absolute_error: 0.5632 - val_loss
       15.1676 - val_mean_absolute_error:
      3805
1996 Epoch 887/10000
      - 0s - loss: 0.8107 -
1997
     mean_absolute_error: 0.5632 - val_loss
       15.1676 - val_mean_absolute_error:
      3805
1998 Epoch 888/10000
      - 0s - loss: 0.8107 -
1999
     mean_absolute_error: 0.5631 - val_l<u>oss</u>
```

```
15.1671 - val_mean_absolute_error: 2
1999
      3806
2000 Epoch 889/10000
     - 0s - loss: 0.8107 -
2001
     mean_absolute_error: 0.5632 - val_loss
       15.1665 - val_mean_absolute_error: 2
      3807
2002 Epoch 890/10000
2003
     - 0s - loss: 0.8107 -
     mean_absolute_error: 0.5633 - val_loss
       15.1657 - val_mean_absolute_error: 2
     3807
2004
2005 Epoch 00890: val_mean_absolute_error
     did not improve from 2.27144
2006 Epoch 891/10000
     - 0s - loss: 0.8107 -
2007 l
     mean_absolute_error: 0.5633 - val_loss
       15.1661 - val_mean_absolute_error: 2
     3808
2008 Epoch 892/10000
2009 - 0s - loss: 0.8107
     mean_absolute_error: 0.5633 - val_loss
     15.1662 - val_mean_absolute_error: 2
```

```
File - boston01
      . 3808
2009 l
2010 Epoch 893/10000
2011 - 0s - loss: 0.8107
     mean_absolute_error: 0.5634 - val_loss
       15.1657 - val_mean_absolute_error: 2
      3808
2012 Epoch 894/10000
2013 - 0s - Loss: 0.8107
     mean_absolute_error: 0.5633 - val_loss
       15.1660 - val_mean_absolute_error:
      3808
2014 Epoch 895/10000
2015 - 0s - loss: 0.8106 -
     mean_absolute_error: 0.5633 - val_loss
       15.1659 - val_mean_absolute_error: 2
      3808
2016 Epoch 896/10000
2017 - 0s - loss: 0.8106 -
     mean_absolute_error: 0.5633 - val_loss
       15.1662 - val_mean_absolute_error:
      3808
2018 Epoch 897/10000
2019 - 0s - loss: 0.8107 -
     mean_absolute_error: 0.5634 - val_loss
```

```
15.1667 - val_mean_absolute_error: 2
2019 I
      3808
2020 Epoch 898/10000
     - 0s - loss: 0.8108 -
2021
     mean_absolute_error: 0.5633 - val_loss
       15.1666 - val_mean_absolute_error: 2
      3807
2022 Epoch 899/10000
2023
     - 0s - loss: 0.8106 -
     mean_absolute_error: 0.5633 - val_loss
       15.1667 - val_mean_absolute_error: 2
      3807
2024 Epoch 900/10000
     - 0s - loss: 0.8107 -
2025
     mean_absolute_error: 0.5633 - val_loss
       15.1669 - val_mean_absolute_error: 2
     . 3807
2026
2027 Epoch 00900: val_mean_absolute_error
     did not improve from 2.27144
2028 Epoch 901/10000
2029 - 0s - loss: 0.8107
     mean_absolute_error: 0.5632 - val_loss
      15.1673 - val_mean_absolute_error: 2
```

```
File - boston01
      . 3807
2029
2030 Epoch 902/10000
      - 0s - loss: 0.8106
2031
     mean_absolute_error: 0.5631 - val_loss
       15.1674 - val_mean_absolute_error: 2
      3807
2032 Epoch 903/10000
2033 - 0s - Loss: 0.8106 -
     mean_absolute_error: 0.5632 - val_loss
       15.1679 - val_mean_absolute_error:
      3806
2034 Epoch 904/10000
2035
      - 0s - loss: 0.8106 -
     mean_absolute_error: 0.5632 - val_loss
       15.1669 - val_mean_absolute_error:
      3807
2036 Epoch 905/10000
2037 - 0s - loss: 0.8106 -
     mean_absolute_error: 0.5633 - val_loss
       15.1673 - val_mean_absolute_error:
      3807
2038 Epoch 906/10000
2039 - 0s - loss: 0.8106 -
     mean_absolute_error: 0.5633 - val_loss
```

```
15.1679 - val_mean_absolute_error: 2
2039
      3805
2040 Epoch 907/10000
     - 0s - loss: 0.8106 -
2041
     mean_absolute_error: 0.5632 - val_loss
       15.1676 - val_mean_absolute_error: 2
      3806
2042 Epoch 908/10000
2043
     - 0s - loss: 0.8106 -
     mean_absolute_error: 0.5631 - val_loss
       15.1676 - val_mean_absolute_error: 2
      3806
2044 Epoch 909/10000
     - 0s - loss: 0.8106 -
2045
     mean_absolute_error: 0.5632 - val_loss
       15.1679 - val_mean_absolute_error: 2
      3805
2046 Epoch 910/10000
     - 0s - loss: 0.8106 -
2047
     mean_absolute_error: 0.5632 - val_loss
       15.1677 - val_mean_absolute_error: 2
     3805
2048
     Epoch 00910: val_mean_absolute_error
2049
```

```
File - boston01
2049 did not improve from 2.27144
2050 Epoch 911/10000
      - 0s - loss: 0.8105
2051
     mean_absolute_error: 0.5631 - val_loss
       15.1675 - val_mean_absolute_error: 2
      3805
2052 Epoch 912/10000
2053 - 0s - loss: 0.8106 -
     mean_absolute_error: 0.5632 - val_loss
       15.1679 - val_mean_absolute_error: 2
      3805
2054 Epoch 913/10000
     - 0s - loss: 0.8106 -
2055
     mean_absolute_error: 0.5632 - val_loss
       15.1684 - val_mean_absolute_error: 2
      3805
2056 Epoch 914/10000
2057 - 0s - loss: 0.8106 -
     mean_absolute_error: 0.5632 - val_loss
       15.1671 - val_mean_absolute_error:
      3806
2058 Epoch 915/10000
2059 - 0s - loss: 0.8105 -
     mean_absolute_error: 0.5632 - val_loss
```

```
15.1661 - val_mean_absolute_error: 2
2059
      3807
2060 Epoch 916/10000
     - 0s - loss: 0.8105 -
2061
     mean_absolute_error: 0.5632 - val_loss
       15.1664 - val_mean_absolute_error: 2
      3806
2062 Epoch 917/10000
2063
     - 0s - loss: 0.8105 -
     mean_absolute_error: 0.5632 - val_loss
       15.1665 - val_mean_absolute_error: 2
      3807
2064 Epoch 918/10000
     - 0s - loss: 0.8105 -
2065
     mean_absolute_error: 0.5632 - val_loss
       15.1668 - val_mean_absolute_error: 2
      3807
2066 Epoch 919/10000
     - 0s - loss: 0.8105 -
2067
     mean_absolute_error: 0.5633 - val_loss
       15.1672 - val_mean_absolute_error: 2
      3806
2068 Epoch 920/10000
2069 - 0s - loss: 0.8105
```

```
2069 mean_absolute_error: 0.5632 - val_loss
       15.1671 - val_mean_absolute_error: 2
      3807
2070
2071 Epoch 00920: val_mean_absolute_error
     did not improve from 2.27144
2072 Epoch 921/10000
2073 - 0s - loss: 0.8105 -
     mean_absolute_error: 0.5632 - val_loss
       15.1677 - val_mean_absolute_error: 2
      3807
2074 Epoch 922/10000
2075 - 0s - loss: 0.8105 -
     mean_absolute_error: 0.5632 - val_loss
       15.1670 - val_mean_absolute_error: 2
      3807
2076 Epoch 923/10000
2077 - 0s - loss: 0.8105 -
     mean_absolute_error: 0.5632 - val_loss
       15.1668 - val_mean_absolute_error:
      3808
2078 Epoch 924/10000
2079 - 0s - loss: 0.8106 -
     mean_absolute_error: 0.5632 - val_loss
```

```
15.1671 - val_mean_absolute_error: 2
2079
      3808
2080 Epoch 925/10000
     - 0s - loss: 0.8106 -
2081
     mean_absolute_error: 0.5633 - val_loss
       15.1665 - val_mean_absolute_error: 2
      3808
2082 Epoch 926/10000
2083
     - 0s - loss: 0.8105 -
     mean_absolute_error: 0.5632 - val_loss
       15.1674 - val_mean_absolute_error: 2
      3807
2084 Epoch 927/10000
     - 0s - loss: 0.8105 -
2085
     mean_absolute_error: 0.5631 - val_loss
       15.1678 - val_mean_absolute_error: 2
      3806
2086 Epoch 928/10000
     - 0s - loss: 0.8105 -
2087
     mean_absolute_error: 0.5632 - val_loss
       15.1683 - val_mean_absolute_error: 2
      3806
2088 Epoch 929/10000
2089 - 0s - loss: 0.8106 -
```

```
2089 mean_absolute_error: 0.5633 - val_loss
       15.1682 - val_mean_absolute_error: 2
      3807
2090 Epoch 930/10000
     - 0s - Loss: 0.8104 -
2091
     mean_absolute_error: 0.5631 - val_loss
       15.1682 - val_mean_absolute_error: 2
     3808
2092
2093 Epoch 00930: val_mean_absolute_error
     did not improve from 2.27144
2094 Epoch 931/10000
2095 - 0s - loss: 0.8106 -
     mean_absolute_error: 0.5631 - val_loss
       15.1680 - val_mean_absolute_error: 2
      3808
2096 Epoch 932/10000
2097 - 0s - loss: 0.8106 -
     mean_absolute_error: 0.5631 - val_loss
       15.1673 - val_mean_absolute_error:
     . 3808
2098 Epoch 933/10000
2099 - 0s - loss: 0.8105 -
     mean_absolute_error: 0.5631 - val_loss
```

```
15.1669 - val_mean_absolute_error: 2
2099
      3808
2100 Epoch 934/10000
     - 0s - loss: 0.8104 -
2101
     mean_absolute_error: 0.5632 - val_loss
       15.1669 - val_mean_absolute_error: 2
      3808
2102 Epoch 935/10000
     - 0s - loss: 0.8106 -
2103
     mean_absolute_error: 0.5632 - val_loss
       15.1670 - val_mean_absolute_error: 2
      3808
2104 Epoch 936/10000
     - 0s - loss: 0.8104 -
2105
     mean_absolute_error: 0.5632 - val_loss
       15.1676 - val_mean_absolute_error: 2
      3807
2106 Epoch 937/10000
     - 0s - loss: 0.8104 -
2107 l
     mean_absolute_error: 0.5631 - val_loss
       15.1674 - val_mean_absolute_error: 2
      3809
2108 Epoch 938/10000
2109 - 0s - loss: 0.8105 -
```

```
2109 mean_absolute_error: 0.5633 - val_loss
       15.1675 - val_mean_absolute_error: 2
      3809
2110 Epoch 939/10000
     - 0s - loss: 0.8104 -
2111 l
     mean_absolute_error: 0.5632 - val_loss
       15.1682 - val_mean_absolute_error: 2
      3808
2112 Epoch 940/10000
2113 - 0s - loss: 0.8104 -
     mean_absolute_error: 0.5631 - val_loss
       15.1674 - val_mean_absolute_error: 2
     3810
2114
2115 Epoch 00940: val_mean_absolute_error
     did not improve from 2.27144
2116 Epoch 941/10000
2117 - 0s - loss: 0.8105 -
     mean_absolute_error: 0.5633 - val_loss
       15.1676 - val_mean_absolute_error: 2
      3809
2118 Epoch 942/10000
2119 - 0s - loss: 0.8104 -
     mean_absolute_error: 0.5632 - val_loss
```

```
15.1680 - val_mean_absolute_error: 2
2119
      3808
2120 Epoch 943/10000
     - 0s - loss: 0.8105 -
2121
     mean_absolute_error: 0.5631 - val_loss
       15.1675 - val_mean_absolute_error: 2
      3809
2122 Epoch 944/10000
     - 0s - loss: 0.8104 -
2123
     mean_absolute_error: 0.5631 - val_loss
       15.1688 - val_mean_absolute_error: 2
      3807
2124 Epoch 945/10000
     - 0s - loss: 0.8104 -
2125
     mean_absolute_error: 0.5631 - val_loss
       15.1672 - val_mean_absolute_error: 2
      3809
2126 Epoch 946/10000
2127 - 0s - loss: 0.8104 -
     mean_absolute_error: 0.5631 - val_loss
       15.1672 - val_mean_absolute_error: 2
      3810
2128 Epoch 947/10000
2129 - 0s - loss: 0.8104
```

```
2129 mean_absolute_error: 0.5631 - val_loss
       15.1686 - val_mean_absolute_error: 2
      3809
2130 Epoch 948/10000
     - 0s - loss: 0.8104 -
2131
     mean_absolute_error: 0.5631 - val_loss
       15.1686 - val_mean_absolute_error: 2
      3808
2132 Epoch 949/10000
2133 - 0s - loss: 0.8104 -
     mean_absolute_error: 0.5631 - val_loss
       15.1681 - val_mean_absolute_error: 2
     3808
2134 Epoch 950/10000
    - 0s - loss: 0.8104
2135
     mean_absolute_error: 0.5631 - val_loss
     15.1672 - val_mean_absolute_error: 2
     . 3810
2136
    Epoch 00950: val_mean_absolute_error
2137
     did not improve from 2.27144
2138 Epoch 951/10000
2139 - 0s - loss: 0.8104 -
     mean_absolute_error: 0.5632 - val_loss
```

```
15.1674 - val_mean_absolute_error: 2
2139 I
      3809
2140 Epoch 952/10000
     - 0s - loss: 0.8105 -
2141
     mean_absolute_error: 0.5631 - val_loss
       15.1678 - val_mean_absolute_error: 2
      3809
2142 Epoch 953/10000
     - 0s - loss: 0.8104 -
2143
     mean_absolute_error: 0.5632 - val_loss
       15.1674 - val_mean_absolute_error: 2
      3809
2144 Epoch 954/10000
     - 0s - loss: 0.8104 -
2145 l
     mean_absolute_error: 0.5632 - val_loss
       15.1675 - val_mean_absolute_error: 2
      3809
2146 Epoch 955/10000
     - 0s - loss: 0.8104 -
2147
     mean_absolute_error: 0.5631 - val_loss
       15.1674 - val_mean_absolute_error: 2
      3809
2148 Epoch 956/10000
     - 0s - loss: 0.8103
2149 l
```

```
2149 mean_absolute_error: 0.5631 - val_loss
       15.1676 - val_mean_absolute_error: 2
      3809
2150 Epoch 957/10000
     - 0s - loss: 0.8104 -
2151
     mean_absolute_error: 0.5631 - val_loss
       15.1693 - val_mean_absolute_error: 2
      3808
2152 Epoch 958/10000
2153 - 0s - loss: 0.8104 -
     mean_absolute_error: 0.5631 - val_loss
       15.1701 - val_mean_absolute_error: 2
     3806
2154 Epoch 959/10000
    - 0s - loss: 0.8103
2155
     mean_absolute_error: 0.5631 - val_loss
       15.1705 - val_mean_absolute_error:
      3805
2156 Epoch 960/10000
2157 - 0s - loss: 0.8103 -
     mean_absolute_error: 0.5631 - val_loss
       15.1692 - val_mean_absolute_error:
     . 3808
```

2158

```
2159 Epoch 00960: val_mean_absolute_error
     did not improve from 2.27144
2160 Epoch 961/10000
     - 0s - loss: 0.8104 -
2161
     mean_absolute_error: 0.5631 - val_loss
       15.1681 - val_mean_absolute_error: 2
      3809
2162 Epoch 962/10000
     - 0s - loss: 0.8104 -
2163
     mean_absolute_error: 0.5631 - val_loss
       15.1680 - val_mean_absolute_error: 2
      3809
2164 Epoch 963/10000
     - 0s - loss: 0.8103 -
2165
     mean_absolute_error: 0.5631 - val_loss
       15.1682 - val_mean_absolute_error: 2
      3808
2166 Epoch 964/10000
     - 0s - loss: 0.8104 -
2167 l
     mean_absolute_error: 0.5630 - val_loss
       15.1679 - val_mean_absolute_error: 2
      3809
2168 Epoch 965/10000
2169 - 0s - loss: 0.8103 -
```

```
2169 mean_absolute_error: 0.5631 - val_loss
       15.1684 - val_mean_absolute_error: 2
      3808
2170 Epoch 966/10000
2171 - 0s - loss: 0.8103 -
     mean_absolute_error: 0.5630 - val_loss
       15.1677 - val_mean_absolute_error: 2
      3809
2172 Epoch 967/10000
2173 - 0s - loss: 0.8104 -
     mean_absolute_error: 0.5630 - val_loss
       15.1680 - val_mean_absolute_error: 2
     3809
2174 Epoch 968/10000
2175 - 0s - loss: 0.8102 -
     mean_absolute_error: 0.5630 - val_loss
     15.1678 - val_mean_absolute_error: 2
      3809
2176 Epoch 969/10000
2177 - 0s - loss: 0.8104 -
     mean_absolute_error: 0.5632 - val_loss
       15.1695 - val_mean_absolute_error:
      3808
2178 Epoch 970/10000
```

```
- 0s - loss: 0.8103 -
2179
    15.1691 - val_mean_absolute_error: 2
     3808
2180
    Epoch 00970: val_mean_absolute_error
2181
    did not improve from 2.27144
2182 Epoch 971/10000
     - 0s - loss: 0.8103 -
2183
    mean_absolute_error: 0.5630 - val_loss
      15.1697 - val_mean_absolute_error: 2
     3808
2184 Epoch 972/10000
     - 0s - loss: 0.8103 -
2185
    mean_absolute_error: 0.5630 - val_loss
      15.1697 - val_mean_absolute_error: 2
     3807
2186 Epoch 973/10000
     - 0s - loss: 0.8102 -
2187
    mean_absolute_error: 0.5630 - val_loss
      15.1693 - val_mean_absolute_error: 2
     3808
2188 Epoch 974/10000
2189 - 0s - loss: 0.8103
```

```
2189 mean_absolute_error: 0.5631 - val_loss
       15.1693 - val_mean_absolute_error: 2
      3808
2190 Epoch 975/10000
     - 0s - loss: 0.8103 -
2191
     mean_absolute_error: 0.5630 - val_loss
       15.1687 - val_mean_absolute_error: 2
      3809
2192 Epoch 976/10000
2193 - 0s - loss: 0.8102 -
     mean_absolute_error: 0.5631 - val_loss
       15.1674 - val_mean_absolute_error: 2
     3810
2194 Epoch 977/10000
2195 - 0s - loss: 0.8102 ·
     mean_absolute_error: 0.5630 - val_loss
      15.1678 - val_mean_absolute_error: 2
      3810
2196 Epoch 978/10000
2197 - 0s - loss: 0.8103 -
     mean_absolute_error: 0.5630 - val_loss
       15.1677 - val_mean_absolute_error:
      3810
2198 Epoch 979/10000
```

2206 Epoch 982/10000

- 0s - loss: 0.8102 -2207 I

> mean_absolute_error: 0.5630 - val_loss 15.1681 - val_mean_absolute_error: 2

3811

2208 Epoch 983/10000

2209 - 0s - loss: 0.8103 -

```
2209 mean_absolute_error: 0.5630 - val_loss
       15.1685 - val_mean_absolute_error: 2
      3810
2210 Epoch 984/10000
2211 - 0s - loss: 0.8103 -
     mean_absolute_error: 0.5630 - val_loss
       15.1684 - val_mean_absolute_error: 2
      3810
2212 Epoch 985/10000
2213 - 0s - loss: 0.8102 -
     mean_absolute_error: 0.5630 - val_loss
       15.1687 - val_mean_absolute_error: 2
     3810
2214 Epoch 986/10000
2215 - 0s - loss: 0.8101
     mean_absolute_error: 0.5630 - val_loss
     : 15.168<mark>5 - val_mean_absolute_error: 2</mark>
      3810
2216 Epoch 987/10000
2217 - 0s - loss: 0.8103 -
     mean_absolute_error: 0.5631 - val_loss
       15.1694 - val_mean_absolute_error:
      3809
2218 Epoch 988/10000
```

```
- 0s - loss: 0.8103 -
2219
     mean_absolute_error: 0.5631 - val_loss
       15.1710 - val_mean_absolute_error: 2
      3808
2220 Epoch 989/10000
     - 0s - loss: 0.8101 -
2221 |
     mean_absolute_error: 0.5630 - val_loss
       15.1700 - val_mean_absolute_error: 2
      3810
2222 Epoch 990/10000
2223 - 0s - loss: 0.8101 -
     mean_absolute_error: 0.5629 - val_loss
       15.1697 - val_mean_absolute_error: 2
     . 3810
2224
2225 Epoch 00990: val_mean_absolute_error
     did not improve from 2.27144
2226 Epoch 991/10000
     - 0s - loss: 0.8102 -
2227
     mean_absolute_error: 0.5631 - val_loss
       15.1699 - val_mean_absolute_error: 2
      3810
2228 Epoch 992/10000
2229 - 0s - loss: 0.8102 -
```

```
2229 mean_absolute_error: 0.5630 - val_loss
       15.1690 - val_mean_absolute_error: 2
      3811
2230 Epoch 993/10000
2231 - 0s - loss: 0.8102 -
     mean_absolute_error: 0.5631 - val_loss
       15.1687 - val_mean_absolute_error: 2
      3812
2232 Epoch 994/10000
2233 - 0s - loss: 0.8103 -
     mean_absolute_error: 0.5630 - val_loss
       15.1688 - val_mean_absolute_error: 2
     3812
2234 Epoch 995/10000
2235 - 0s - loss: 0.8102 -
     mean_absolute_error: 0.5630 - val_loss
     : 15.1697 - val_mean_absolute_error: 2
     . 3811
2236 Epoch 996/10000
2237 - 0s - loss: 0.8101 -
     mean_absolute_error: 0.5629 - val_loss
       15.1697 - val_mean_absolute_error:
      3811
2238 Epoch 997/10000
```

```
- 0s - loss: 0.8102 -
2239
     mean_absolute_error: 0.5630 - val_loss
       15.1710 - val_mean_absolute_error: 2
      3810
2240 Epoch 998/10000
     - 0s - loss: 0.8101 -
2241
     mean_absolute_error: 0.5630 - val_loss
       15.1706 - val_mean_absolute_error: 2
      3810
2242 Epoch 999/10000
     - 0s - loss: 0.8102 -
2243
     mean_absolute_error: 0.5631 - val_loss
       15.1692 - val_mean_absolute_error: 2
     3812
2244 Epoch 1000/10000
     - 0s - loss: 0.8101 -
2245
     mean_absolute_error: 0.5631 - val_loss
       15.1713 - val_mean_absolute_error: 2
     3810
2246
    Epoch 01000: val_mean_absolute_error
2247
     did not improve from 2.27144
2248 Epoch 1001/10000
2249 - 0s - loss: 0.8101
```

```
2249 mean_absolute_error: 0.5630 - val_loss
       15.1718 - val_mean_absolute_error: 2
      3809
2250 Epoch 1002/10000
     - 0s - loss: 0.8102 -
2251
     mean_absolute_error: 0.5630 - val_loss
       15.1717 - val_mean_absolute_error: 2
      3809
2252 Epoch 1003/10000
2253 - 0s - loss: 0.8101 -
     mean_absolute_error: 0.5630 - val_loss
       15.1718 - val_mean_absolute_error: 2
     3809
2254 Epoch 1004/10000
2255 - 0s - loss: 0.8102 -
     mean_absolute_error: 0.5629 - val_loss
       15.1719 - val_mean_absolute_error: 2
      3809
2256 Epoch 1005/10000
2257 - 0s - loss: 0.8101 -
     mean_absolute_error: 0.5629 - val_loss
       15.1729 - val_mean_absolute_error:
      3808
2258 Epoch 1006/10000
```

```
- 0s - loss: 0.8101 -
2259
     mean_absolute_error: 0.5629 - val_loss
       15.1733 - val_mean_absolute_error: 2
      3808
2260 Epoch 1007/10000
     - 0s - loss: 0.8100 -
2261
     mean_absolute_error: 0.5629 - val_loss
       15.1733 - val_mean_absolute_error: 2
      3808
2262 Epoch 1008/10000
2263 - 0s - loss: 0.8101 -
     mean_absolute_error: 0.5629 - val_loss
       15.1736 - val_mean_absolute_error: 2
     3808
2264 Epoch 1009/10000
     - 0s - loss: 0.8101 -
2265
     mean_absolute_error: 0.5629 - val_loss
       15.1731 - val_mean_absolute_error: 2
      3808
2266 Epoch 1010/10000
     - 0s - loss: 0.8101 -
2267
     mean_absolute_error: 0.5629 - val_loss
     : 15.1735 - val_mean_absolute_error: 2
     3807
```

```
2268
2269 Epoch 01010: val_mean_absolute_error
     did not improve from 2.27144
2270 Epoch 1011/10000
2271 - 0s - loss: 0.8101 -
     mean_absolute_error: 0.5629 - val_loss
       15.1746 - val_mean_absolute_error: 2
      3806
2272 Epoch 1012/10000
2273 - 0s - loss: 0.8101
     mean_absolute_error: 0.5629 - val_loss
       15.1743 - val_mean_absolute_error: 2
     3807
2274 Epoch 1013/10000
    - 0s - loss: 0.8101
2275
     mean_absolute_error: 0.5628 - val_loss
       15.1743 - val_mean_absolute_error:
     3807
2276 Epoch 1014/10000
2277 - 0s - loss: 0.8102 -
     mean_absolute_error: 0.5629 - val_loss
       15.1740 - val_mean_absolute_error:
      3807
2278 Epoch 1015/10000
```

```
- 0s - loss: 0.8100 -
2279
     mean_absolute_error: 0.5629 - val_loss
       15.1746 - val_mean_absolute_error: 2
      3807
2280 Epoch 1016/10000
     - 0s - loss: 0.8100 -
2281
     mean_absolute_error: 0.5628 - val_loss
       15.1747 - val_mean_absolute_error: 2
      3808
2282 Epoch 1017/10000
     - 0s - loss: 0.8101 -
2283 l
     mean_absolute_error: 0.5627 - val_loss
       15.1741 - val_mean_absolute_error: 2
     3808
2284 Epoch 1018/10000
     - 0s - loss: 0.8101 -
2285
     mean_absolute_error: 0.5628 - val_loss
       15.1743 - val_mean_absolute_error: 2
      3808
2286 Epoch 1019/10000
     - 0s - loss: 0.8100 -
2287
     mean_absolute_error: 0.5628 - val_loss
       15.1743 - val_mean_absolute_error: 2
     3808
```

```
File - boston01
2288 Epoch 1020/10000
      - 0s - Loss: 0.8100 -
2289
     mean_absolute_error: 0.5628 - val_loss
       15.1728 - val_mean_absolute_error: 2
      . 3809
2290
     Epoch 01020: val_mean_absolute_error
2291
     did not improve from 2.27144
2292 Epoch 1021/10000
2293 - 0s - loss: 0.8101
     mean_absolute_error: 0.5628 - val_loss
       15.1731 - val_mean_absolute_error: 2
      3810
2294 Epoch 1022/10000
     - 0s - loss: 0.8100 -
2295
     mean_absolute_error: 0.5629 - val_loss
       15.1739 - val_mean_absolute_error: 2
      3809
2296 Epoch 1023/10000
      - 0s - loss: 0.8101 -
2297
     mean_absolute_error: 0.5628 - val_loss
       15.1736 - val_mean_absolute_error:
      3809
2298 Epoch 1024/10000
```

```
- 0s - loss: 0.8100 -
2299
     mean_absolute_error: 0.5628 - val_loss
       15.1740 - val_mean_absolute_error: 2
      3809
2300 Epoch 1025/10000
     - 0s - loss: 0.8100 -
2301
     mean_absolute_error: 0.5628 - val_loss
       15.1733 - val_mean_absolute_error: 2
      3809
2302 Epoch 1026/10000
     - 0s - loss: 0.8100 -
2303 l
     mean_absolute_error: 0.5628 - val_loss
       15.1733 - val_mean_absolute_error: 2
      3809
2304 Epoch 1027/10000
     - 0s - Loss: 0.8100 -
2305
     mean_absolute_error: 0.5628 - val loss
       15.1723 - val_mean_absolute_error: 2
      3810
2306 Epoch 1028/10000
     - 0s - loss: 0.8099 -
2307
     mean_absolute_error: 0.5628 - val_loss
       15.1727 - val_mean_absolute_error: 2
     3809
```

2318 Epoch 1033/10000

```
- 0s - loss: 0.8100 -
2319
     mean_absolute_error: 0.5629 - val_loss
       15.1739 - val_mean_absolute_error: 2
      3807
2320 Epoch 1034/10000
2321 - 0s - loss: 0.8099 -
     mean_absolute_error: 0.5627 - val_loss
       15.1735 - val_mean_absolute_error: 2
     3808
2322 Epoch 1035/10000
2323 - 0s - loss: 0.8101 -
     mean_absolute_error: 0.5629 - val_loss
       15.1729 - val_mean_absolute_error: 2
      3809
2324 Epoch 1036/10000
     - 0s - Loss: 0.8099 -
2325
     mean_absolute_error: 0.5628 - val_loss
       15.1737 - val_mean_absolute_error: 2
      3808
2326 Epoch 1037/10000
     - 0s - loss: 0.8100 -
2327
     mean_absolute_error: 0.5628 - val_loss
     : 15.1736 - val_mean_absolute_error: 2
     3808
```

```
File - boston01
2328 Epoch 1038/10000
      - 0s - Loss: 0.8100 -
2329
     mean_absolute_error: 0.5628 - val_loss
       15.1737 - val_mean_absolute_error: 2
      3808
2330 Epoch 1039/10000
      - 0s - loss: 0.8100 -
2331
     mean_absolute_error: 0.5628 - val_loss
       15.1722 - val_mean_absolute_error: 2
      3809
2332 Epoch 1040/10000
2333 - 0s - loss: 0.8099 -
     mean_absolute_error: 0.5628 - val_loss
       15.1719 - val_mean_absolute_error: 2
      . 3810
2334
2335 Epoch 01040: val_mean_absolute_error
     did not improve from 2.27144
2336 Epoch 1041/10000
2337 - 0s - loss: 0.8099 -
     mean_absolute_error: 0.5627 - val_loss
       15.1720 - val_mean_absolute_error:
      3810
2338 Epoch 1042/10000
```

2341

```
- 0s - loss: 0.8099 -
     mean_absolute_error: 0.5628 - val_loss
       15.1717 - val_mean_absolute_error: 2
      3811
2340 Epoch 1043/10000
     - 0s - loss: 0.8099 -
     mean_absolute_error: 0.5628 - val_loss
       15.1733 - val_mean_absolute_error: 2
      3809
2342 Epoch 1044/10000
     - 0s - loss: 0.8099 -
2343
     mean_absolute_error: 0.5627 - val_loss
       15.1726 - val_mean_absolute_error: 2
     3810
```

2344 Epoch 1045/10000

- 0s - loss: 0.8099 -2345 mean_absolute_error: 0.5627 - val_loss 15.1726 - val_mean_absolute_error: 2 3810

2346 Epoch 1046/10000

- 0s - loss: 0.8099 -2347 mean_absolute_error: 0.5628 - val_loss : 15.1727 - val_mean_absolute_error: 2 3810

2366 Epoch 1055/10000
2367 - 0s - loss: 0.8099 mean_absolute_error: 0.5628 - val_loss
: 15.1701 - val_mean_absolute_error: 2
.3812

15.1709 - val_mean_absolute_error: 2

```
File - boston01
     . 3811
2377
2378
2379 Epoch 01060: val_mean_absolute_error
     did not improve from 2.27144
2380 Epoch 1061/10000
     - 0s - loss: 0.8100 -
2381
     mean_absolute_error: 0.5627 - val_loss
       15.1713 - val_mean_absolute_error: 2
      3810
2382 Epoch 1062/10000
      - 0s - loss: 0.8099 -
2383
     mean_absolute_error: 0.5627 - val_loss
       15.1718 - val_mean_absolute_error: 2
      3810
2384 Epoch 1063/10000
      - 0s - loss: 0.8099 -
2385
     mean_absolute_error: 0.5628 - val_loss
       15. 1707 - val_mean_absolute_error: 2
      3811
2386 Epoch 1064/10000
      - 0s - loss: 0.8097 -
2387
     mean_absolute_error: 0.5627 - val_loss
       15.1718 - val_mean_absolute_error: 2
      3810
```

```
File - boston01
      . 3809
2397
2398 Epoch 1070/10000
      - 0s - loss: 0.8097
2399
     mean_absolute_error: 0.5628 - val_loss
       15.1726 - val_mean_absolute_error: 2
      3810
2400
2401 Epoch 01070: val_mean_absolute_error
     did not improve from 2.27144
2402 Epoch 1071/10000
2403 - 0s - loss: 0.8098 -
     mean_absolute_error: 0.5626 - val_loss
       15.1721 - val_mean_absolute_error: 2
      3811
2404 Epoch 1072/10000
      - 0s - loss: 0.8098 -
2405
     mean_absolute_error: 0.5628 - val_loss
       15.1733 - val_mean_absolute_error: 2
      3810
2406 Epoch 1073/10000
      - 0s - loss: 0.8096 -
2407
     mean_absolute_error: 0.5627 - val_loss
       15.1735 - val_mean_absolute_error: 2
      3809
```

2417 - 0s - loss: 0.8097 - mean_absolute_error: 0.5627 - val_loss : 15.1761 - val_mean_absolute_error: 2

```
File - boston01
      . 3807
2417
2418 Epoch 1079/10000
      - 0s - loss: 0.8097
2419 l
     mean_absolute_error: 0.5627 - val_loss
       15.1760 - val_mean_absolute_error: 2
      3808
2420 Epoch 1080/10000
      - 0s - loss: 0.8097
2421
     mean_absolute_error: 0.5627 - val_loss
      15.1754 - val_mean_absolute_error:
      . 3808
2422
2423 Epoch 01080: val_mean_absolute_error
     did not improve from 2.27144
2424 Epoch 1081/10000
      - 0s - Loss: 0.8097 -
2425
     mean_absolute_error: 0.5627 - val_loss
       15.1757 - val_mean_absolute_error: 2
      3808
2426 Epoch 1082/10000
      - 0s - loss: 0.8097 -
2427
     mean_absolute_error: 0.5627 - val_loss
       15.1756 - val_mean_absolute_error: 2
      3808
```

```
File - boston01
      . 3809
2437
2438 Epoch 1088/10000
      - 0s - loss: 0.8097
2439
     mean_absolute_error: 0.5627 - val_loss
       15.1741 - val_mean_absolute_error: 2
      3809
2440 Epoch 1089/10000
      - 0s - loss: 0.8097
2441
     mean_absolute_error: 0.5626 - val_loss
       15.1741 - val_mean_absolute_error:
      3809
2442 Epoch 1090/10000
      - 0s - loss: 0.8097 -
2443
     mean_absolute_error: 0.5627 - val_loss
       15.1749 - val_mean_absolute_error:
      . 3808
2444
2445 Epoch 01090: val_mean_absolute_error
     did not improve from 2.27144
2446 Epoch 1091/10000
      - 0s - loss: 0.8097 -
2447
     mean_absolute_error: 0.5626 - val_loss
      15.1746 - val_mean_absolute_error: 2
      3808
```

15.1745 - val_mean_absolute_error: 2

```
File - boston01
     . 3810
2457
2458 Epoch 1097/10000
      - 0s - loss: 0.8096
2459
     mean_absolute_error: 0.5626 - val_loss
       15.1745 - val_mean_absolute_error: 2
      3810
2460 Epoch 1098/10000
      - 0s - loss: 0.8097
2461
     mean_absolute_error: 0.5627 - val_loss
       15.1747 - val_mean_absolute_error:
      3810
2462 Epoch 1099/10000
2463
      - 0s - loss: 0.8096 -
     mean_absolute_error: 0.5626 - val_loss
       15.1750 - val_mean_absolute_error:
      3810
2464 Epoch 1100/10000
      - 0s - loss: 0.8095 -
2465
     mean_absolute_error: 0.5626 - val_loss
       15.1740 - val_mean_absolute_error:
      3812
2466
     Epoch 01100: val_mean_absolute_error
2467
     did not improve from 2.27144
```

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mean_absolute_error: 0.5626 - val_loss

15.1751 - val_mean_absolute_error: 2

```
File - boston01
      . 3810
2477
2478 Epoch 1106/10000
      - 0s - loss: 0.8096
2479
     mean_absolute_error: 0.5626 - val_loss
       15.1741 - val_mean_absolute_error: 2
      3811
2480 Epoch 1107/10000
      - 0s - loss: 0.8095
2481
     mean_absolute_error: 0.5626 - val_loss
       15.1737 - val_mean_absolute_error:
      3812
2482 Epoch 1108/10000
2483
      - 0s - loss: 0.8096 -
     mean_absolute_error: 0.5627 - val_loss
       15.1740 - val_mean_absolute_error:
      3812
2484 Epoch 1109/10000
      - 0s - loss: 0.8095 -
2485
     mean_absolute_error: 0.5627 - val_loss
       15.1727 - val_mean_absolute_error:
      3814
2486 Epoch 1110/10000
2487 - 0s - loss: 0.8096 -
     mean_absolute_error: 0.5627 - val_l<u>oss</u>
```

```
15.1735 - val_mean_absolute_error:
2487
     3813
2488
2489 Epoch 01110: val_mean_absolute_error
     did not improve from 2.27144
2490 Epoch 1111/10000
     - 0s - loss: 0.8096 -
2491
     mean_absolute_error: 0.5627 - val_loss
       15.1729 - val_mean_absolute_error: 2
      3814
2492 Epoch 1112/10000
     - 0s - loss: 0.8096 -
2493
     mean_absolute_error: 0.5629 - val_loss
       15.1730 - val_mean_absolute_error: 2
      3814
2494 Epoch 1113/10000
     - 0s - loss: 0.8094 -
2495
     mean_absolute_error: 0.5626 - val_loss
       15.1737 - val_mean_absolute_error: 2
     3814
2496 Epoch 1114/10000
2497 - 0s - loss: 0.8096
     mean_absolute_error: 0.5627 - val_loss
      15.1738 - val_mean_absolute_error: 2
```

```
File - boston01
      . 3814
2497
2498 Epoch 1115/10000
      - 0s - loss: 0.8095
2499
     mean_absolute_error: 0.5627 - val_loss
       15.1742 - val_mean_absolute_error: 2
      3813
2500 Epoch 1116/10000
     - 0s - loss: 0.8096 -
2501
     mean_absolute_error: 0.5626 - val_loss
       15.1732 - val_mean_absolute_error:
      3814
2502 Epoch 1117/10000
2503
      - 0s - loss: 0.8095 -
     mean_absolute_error: 0.5626 - val_loss
       15.1732 - val_mean_absolute_error:
      3813
2504 Epoch 1118/10000
      - 0s - loss: 0.8095 -
2505
     mean_absolute_error: 0.5627 - val_loss
       15.1735 - val_mean_absolute_error:
      3813
2506 Epoch 1119/10000
2507 - 0s - loss: 0.8095 -
     mean_absolute_error: 0.5627 - val_l<u>oss</u>
```

```
15.1732 - val_mean_absolute_error: 2
2507
      3813
2508 Epoch 1120/10000
     - 0s - loss: 0.8096 -
2509
     mean_absolute_error: 0.5627 - val_loss
       15.1734 - val_mean_absolute_error: 2
     . 3813
2510
     Epoch 01120: val_mean_absolute_error
2511
     did not improve from 2.27144
2512 Epoch 1121/10000
2513 - 0s - loss: 0.8096 -
     mean_absolute_error: 0.5627 - val_loss
       15.1732 - val_mean_absolute_error: 2
      3814
2514 Epoch 1122/10000
     - 0s - loss: 0.8095 -
2515
     mean_absolute_error: 0.5626 - val_loss
       15.1737 - val_mean_absolute_error: 2
      3813
2516 Epoch 1123/10000
2517 - 0s - loss: 0.8096
     mean_absolute_error: 0.5626 - val_loss
      15.1744 - val_mean_absolute_error: 2
```

```
File - boston01
     . 3813
2517
2518 Epoch 1124/10000
2519 - 0s - Loss: 0.8096
     mean_absolute_error: 0.5626 - val_loss
       15.1741 - val_mean_absolute_error: 2
      3814
2520 Epoch 1125/10000
      - 0s - loss: 0.8095
2521
     mean_absolute_error: 0.5627 - val_loss
       15.1750 - val_mean_absolute_error:
      3812
2522 Epoch 1126/10000
2523
      - 0s - loss: 0.8095 -
     mean_absolute_error: 0.5626 - val_loss
       15.1750 - val_mean_absolute_error:
      3812
2524 Epoch 1127/10000
      - 0s - loss: 0.8095 -
2525
     mean_absolute_error: 0.5626 - val_loss
       15.1748 - val_mean_absolute_error:
      3813
2526 Epoch 1128/10000
2527 - 0s - loss: 0.8095 -
     mean_absolute_error: 0.5627 - val_l<u>oss</u>
```

```
15.1752 - val_mean_absolute_error: 2
2527
      3812
2528 Epoch 1129/10000
     - 0s - loss: 0.8095 -
2529
     mean_absolute_error: 0.5626 - val_loss
       15.1753 - val_mean_absolute_error: 2
      3813
2530 Epoch 1130/10000
2531
     - 0s - loss: 0.8095 -
     mean_absolute_error: 0.5626 - val_loss
       15.1756 - val_mean_absolute_error: 2
     3813
2532
    Epoch 01130: val_mean_absolute_error
2533
     did not improve from 2.27144
2534 Epoch 1131/10000
     - 0s - loss: 0.8095 -
2535
     mean_absolute_error: 0.5626 - val_loss
       15.1758 - val_mean_absolute_error: 2
      3812
2536 Epoch 1132/10000
2537 - 0s - loss: 0.8095
     mean_absolute_error: 0.5627 - val_loss
      15.1755 - val_mean_absolute_error: 2
```

```
File - boston01
      . 3813
2537
2538 Epoch 1133/10000
      - 0s - loss: 0.8095
2539
     mean_absolute_error: 0.5627 - val_loss
       15.1760 - val_mean_absolute_error: 2
      3812
2540 Epoch 1134/10000
      - 0s - loss: 0.8095
2541
     mean_absolute_error: 0.5627 - val_loss
       15.1760 - val_mean_absolute_error:
      3812
2542 Epoch 1135/10000
2543
      - 0s - loss: 0.8095 -
     mean_absolute_error: 0.5626 - val_loss
       15.1760 - val_mean_absolute_error:
      3811
2544 Epoch 1136/10000
      - 0s - loss: 0.8094 -
2545
     mean_absolute_error: 0.5626 - val_loss
       15.1758 - val_mean_absolute_error:
      3812
2546 Epoch 1137/10000
2547 - 0s - loss: 0.8095 -
     mean_absolute_error: 0.5627 - val_l<u>oss</u>
```

```
15.1750 - val_mean_absolute_error: 2
2547
      3813
2548 Epoch 1138/10000
     - 0s - loss: 0.8095 -
2549
     mean_absolute_error: 0.5627 - val_l<u>oss</u>
       15.1749 - val_mean_absolute_error: 2
      3813
2550 Epoch 1139/10000
2551
     - 0s - loss: 0.8094 -
     mean_absolute_error: 0.5626 - val_loss
       15.1759 - val_mean_absolute_error: 2
      3812
2552 Epoch 1140/10000
     - 0s - loss: 0.8093 -
2553
     mean_absolute_error: 0.5626 - val_loss
       15.1757 - val_mean_absolute_error: 2
     . 3812
2554
2555 Epoch 01140: val_mean_absolute_error
     did not improve from 2.27144
2556 Epoch 1141/10000
2557 - 0s - loss: 0.8093
     mean_absolute_error: 0.5627 - val_loss
      15.1746 - val_mean_absolute_error: 2
```

```
File - boston01
      . 3814
2557
2558 Epoch 1142/10000
      - 0s - loss: 0.8095
2559
     mean_absolute_error: 0.5626 - val_loss
       15.1733 - val_mean_absolute_error: 2
      3815
2560 Epoch 1143/10000
      - 0s - loss: 0.8094
2561
     mean_absolute_error: 0.5626 - val_loss
       15.1739 - val_mean_absolute_error:
      3815
2562 Epoch 1144/10000
2563
      - 0s - loss: 0.8094 -
     mean_absolute_error: 0.5626 - val_loss
       15.1745 - val_mean_absolute_error:
      3814
2564 Epoch 1145/10000
      - 0s - loss: 0.8094 -
2565
     mean_absolute_error: 0.5627 - val_loss
       15.1744 - val_mean_absolute_error:
      3814
2566 Epoch 1146/10000
2567 - 0s - loss: 0.8093 -
     mean_absolute_error: 0.5627 - val_l<u>oss</u>
```

```
15.1751 - val_mean_absolute_error:
2567
      3813
2568 Epoch 1147/10000
     - 0s - loss: 0.8094 -
2569
     mean_absolute_error: 0.5626 - val_loss
       15.1747 - val_mean_absolute_error: 2
      3814
2570 Epoch 1148/10000
     - 0s - loss: 0.8095 -
2571
     mean_absolute_error: 0.5627 - val_loss
       15.1746 - val_mean_absolute_error: 2
      3814
2572 Epoch 1149/10000
     - 0s - loss: 0.8093 -
2573
     mean_absolute_error: 0.5626 - val_loss
       15.1744 - val_mean_absolute_error: 2
      3814
2574 Epoch 1150/10000
     - 0s - loss: 0.8093
2575
     mean_absolute_error: 0.5626 - val_loss
       15.1749 - val_mean_absolute_error: 2
     3813
2576
     Epoch 01150: val_mean_absolute_error
2577
```

```
File - boston01
2577 did not improve from 2.27144
2578 Epoch 1151/10000
2579 - 0s - loss: 0.8094
     mean_absolute_error: 0.5626 - val_loss
       15.1752 - val_mean_absolute_error: 2
      3813
2580 Epoch 1152/10000
      - 0s - loss: 0.8094
2581
     mean_absolute_error: 0.5625 - val_loss
       15.1754 - val_mean_absolute_error:
      3813
2582 Epoch 1153/10000
2583
      - 0s - loss: 0.8093 -
     mean_absolute_error: 0.5625 - val_loss
       15.1754 - val_mean_absolute_error: 2
      3813
2584 Epoch 1154/10000
      - 0s - loss: 0.8095 -
2585
     mean_absolute_error: 0.5627 - val_loss
       15.1750 - val_mean_absolute_error:
      3814
2586 Epoch 1155/10000
2587 - 0s - loss: 0.8093 -
     mean_absolute_error: 0.5625 - val_loss
```

```
15.1758 - val_mean_absolute_error: 2
2587
      3812
2588 Epoch 1156/10000
     - 0s - loss: 0.8093 -
2589
     mean_absolute_error: 0.5625 - val_loss
       15.1766 - val_mean_absolute_error: 2
      3812
2590 Epoch 1157/10000
     - 0s - loss: 0.8093 -
2591
     mean_absolute_error: 0.5625 - val_loss
       15.1761 - val_mean_absolute_error: 2
      3812
2592 Epoch 1158/10000
     - 0s - loss: 0.8093 -
2593
     mean_absolute_error: 0.5625 - val_loss
       15.1763 - val_mean_absolute_error: 2
      3812
2594 Epoch 1159/10000
     - 0s - loss: 0.8093
2595
     mean_absolute_error: 0.5624 - val_loss
       15.1768 - val_mean_absolute_error: 2
      3812
2596 Epoch 1160/10000
     - 0s - loss: 0.8094
2597
```

```
2597 mean_absolute_error: 0.5625 - val_loss
       15.1762 - val_mean_absolute_error: 2
     3813
2598
2599 Epoch 01160: val_mean_absolute_error
     did not improve from 2.27144
2600 Epoch 1161/10000
    - 0s - loss: 0.8093
2601
     mean_absolute_error: 0.5625 - val_loss
       15.1752 - val_mean_absolute_error:
      3814
2602 Epoch 1162/10000
2603 - 0s - loss: 0.8093 -
     mean_absolute_error: 0.5625 - val_loss
       15.1761 - val_mean_absolute_error: 2
      3813
2604 Epoch 1163/10000
    - 0s - loss: 0.8094 -
2605
     mean_absolute_error: 0.5624 - val_loss
       15.1764 - val_mean_absolute_error:
      3812
2606 Epoch 1164/10000
2607 - 0s - loss: 0.8094 -
     mean_absolute_error: 0.5625 - val_loss
```

```
15.1757 - val_mean_absolute_error: 2
2607
      3812
2608 Epoch 1165/10000
2609 - 0s - loss: 0.8093 -
     mean_absolute_error: 0.5625 - val_loss
       15.1756 - val_mean_absolute_error: 2
      3813
2610 Epoch 1166/10000
     - 0s - loss: 0.8093 -
2611
     mean_absolute_error: 0.5625 - val_loss
       15.1755 - val_mean_absolute_error: 2
      3812
2612 Epoch 1167/10000
     - 0s - loss: 0.8093 -
2613
     mean_absolute_error: 0.5625 - val_loss
       15.1744 - val_mean_absolute_error: 2
      3814
2614 Epoch 1168/10000
     - 0s - loss: 0.8093 -
2615
     mean_absolute_error: 0.5625 - val_loss
       15.1747 - val_mean_absolute_error: 2
      3813
2616 Epoch 1169/10000
2617 - 0s - loss: 0.8093
```

```
2617 mean_absolute_error: 0.5624 - val_loss
       15.1750 - val_mean_absolute_error: 2
      3813
2618 Epoch 1170/10000
     - 0s - loss: 0.8094 -
2619 l
     mean_absolute_error: 0.5626 - val_loss
       15.1755 - val_mean_absolute_error: 2
     3812
2620
2621 Epoch 01170: val_mean_absolute_error
     did not improve from 2.27144
2622 Epoch 1171/10000
2623 - 0s - loss: 0.8092 -
     mean_absolute_error: 0.5624 - val_loss
       15.1749 - val_mean_absolute_error: 2
      3813
2624 Epoch 1172/10000
     - 0s - loss: 0.8092 -
2625
     mean_absolute_error: 0.5626 - val_loss
       15.1751 - val_mean_absolute_error:
      3813
2626 Epoch 1173/10000
2627 - 0s - loss: 0.8093 -
     mean_absolute_error: 0.5625 - val_loss
```

```
15.1748 - val_mean_absolute_error: 2
2627
      3813
2628 Epoch 1174/10000
     - 0s - loss: 0.8093 -
2629
     mean_absolute_error: 0.5624 - val_loss
       15.1763 - val_mean_absolute_error: 2
      3811
2630 Epoch 1175/10000
2631
     - 0s - loss: 0.8092 -
     mean_absolute_error: 0.5625 - val_loss
       15.1762 - val_mean_absolute_error: 2
      3812
2632 Epoch 1176/10000
     - 0s - loss: 0.8093 -
2633
     mean_absolute_error: 0.5625 - val_loss
       15.1761 - val_mean_absolute_error: 2
      3812
2634 Epoch 1177/10000
     - 0s - loss: 0.8093
2635
     mean_absolute_error: 0.5625 - val_loss
       15.1764 - val_mean_absolute_error: 2
      3811
2636 Epoch 1178/10000
     - 0s - loss: 0.8092
2637 l
```

```
2637 mean_absolute_error: 0.5625 - val_loss
       15.1765 - val_mean_absolute_error: 2
      3811
2638 Epoch 1179/10000
2639 - 0s - Loss: 0.8092 -
     mean_absolute_error: 0.5625 - val_loss
       15.1764 - val_mean_absolute_error: 2
      3811
2640 Epoch 1180/10000
2641 - 0s - loss: 0.8091
     mean_absolute_error: 0.5625 - val_loss
       15.1752 - val_mean_absolute_error: 2
     3813
2642
2643 Epoch 01180: val_mean_absolute_error
     did not improve from 2.27144
2644 Epoch 1181/10000
    - 0s - loss: 0.8092 -
2645
     mean_absolute_error: 0.5625 - val_loss
       15.1762 - val_mean_absolute_error:
     3812
2646 Epoch 1182/10000
2647 - 0s - loss: 0.8092 -
     mean_absolute_error: 0.5624 - val_loss
```

```
15.1765 - val_mean_absolute_error: 2
2647
      3812
2648 Epoch 1183/10000
     - 0s - loss: 0.8093 -
2649
     mean_absolute_error: 0.5626 - val_loss
       15.1764 - val_mean_absolute_error: 2
      3812
2650 Epoch 1184/10000
2651
     - 0s - loss: 0.8092 -
     mean_absolute_error: 0.5625 - val_loss
       15.1749 - val_mean_absolute_error: 2
      3813
2652 Epoch 1185/10000
     - 0s - loss: 0.8092 -
2653
     mean_absolute_error: 0.5625 - val_loss
       15.1753 - val_mean_absolute_error: 2
      3814
2654 Epoch 1186/10000
     - 0s - loss: 0.8092 -
2655
     mean_absolute_error: 0.5626 - val_loss
       15.1761 - val_mean_absolute_error: 2
      3813
2656 Epoch 1187/10000
     - 0s - loss: 0.8091
2657 l
```

```
2657 mean_absolute_error: 0.5625 - val_loss
       15.1766 - val_mean_absolute_error: 2
      3813
2658 Epoch 1188/10000
     - 0s - Loss: 0.8092 -
2659 l
     mean_absolute_error: 0.5624 - val_loss
       15.1766 - val_mean_absolute_error: 2
      3812
2660 Epoch 1189/10000
2661
     - 0s - loss: 0.8091
     mean_absolute_error: 0.5625 - val_loss
       15.1764 - val_mean_absolute_error: 2
      3812
2662 Epoch 1190/10000
2663 - 0s - loss: 0.8092
     mean_absolute_error: 0.5625 - val_loss
      15.1758 - val_mean_absolute_error:
     . 3813
2664
2665 Epoch 01190: val_mean_absolute_error
     did not improve from 2.27144
2666 Epoch 1191/10000
2667 - 0s - loss: 0.8092 -
     mean_absolute_error: 0.5624 - val_loss
```

```
15.1767 - val_mean_absolute_error: 2
2667
      3812
2668 Epoch 1192/10000
2669 - 0s - loss: 0.8092 -
     mean_absolute_error: 0.5623 - val_loss
       15.1773 - val_mean_absolute_error: 2
      3811
2670 Epoch 1193/10000
2671
     - 0s - loss: 0.8091
     mean_absolute_error: 0.5624 - val_loss
       15.1774 - val_mean_absolute_error: 2
      3811
2672 Epoch 1194/10000
     - 0s - loss: 0.8091 -
2673
     mean_absolute_error: 0.5623 - val_loss
       15.1770 - val_mean_absolute_error: 2
      3812
2674 Epoch 1195/10000
     - 0s - loss: 0.8091
2675
     mean_absolute_error: 0.5624 - val_loss
       15.1786 - val_mean_absolute_error: 2
      3811
2676 Epoch 1196/10000
     - 0s - loss: 0.8092
2677 I
```

```
2677 mean_absolute_error: 0.5625 - val_loss
       15.1786 - val_mean_absolute_error: 2
      3811
2678 Epoch 1197/10000
2679 - 0s - loss: 0.8091
     mean_absolute_error: 0.5624 - val_loss
       15.1804 - val_mean_absolute_error: 2
      3810
2680 Epoch 1198/10000
2681
     - 0s - loss: 0.8091
     mean_absolute_error: 0.5624 - val_loss
       15.1793 - val_mean_absolute_error: 2
     3811
2682 Epoch 1199/10000
    - 0s - loss: 0.8092
2683
     mean_absolute_error: 0.5624 - val_loss
       15.1804 - val_mean_absolute_error:
      3810
2684 Epoch 1200/10000
     - 0s - loss: 0.8090 -
2685
     mean_absolute_error: 0.5625 - val_loss
       15.1801 - val_mean_absolute_error:
     3811
```

2686

```
2687 Epoch 01200: val_mean_absolute_error
     did not improve from 2.27144
2688 Epoch 1201/10000
2689 - 0s - loss: 0.8092 -
     mean_absolute_error: 0.5624 - val_loss
       15.1792 - val_mean_absolute_error: 2
     3812
2690 Epoch 1202/10000
2691
     - 0s - loss: 0.8091 -
     mean_absolute_error: 0.5624 - val_loss
       15.1793 - val_mean_absolute_error: 2
      3811
2692 Epoch 1203/10000
     - 0s - loss: 0.8091 -
2693
     mean_absolute_error: 0.5624 - val_loss
       15.1793 - val_mean_absolute_error: 2
     . 3811
2694 Epoch 1204/10000
     - 0s - loss: 0.8091
2695
     mean_absolute_error: 0.5624 - val_loss
       15.1797 - val_mean_absolute_error: 2
      3812
2696 Epoch 1205/10000
     - 0s - loss: 0.8091
2697 l
```

```
2697 mean_absolute_error: 0.5623 - val_loss
       15.1790 - val_mean_absolute_error: 2
      3813
2698 Epoch 1206/10000
2699 - 0s - Loss: 0.8091
     mean_absolute_error: 0.5625 - val_loss
       15.1802 - val_mean_absolute_error: 2
     3812
2700 Epoch 1207/10000
2701 - 0s - loss: 0.8089 -
     mean_absolute_error: 0.5624 - val_loss
       15.1796 - val_mean_absolute_error: 2
     3812
2702 Epoch 1208/10000
2703 - 0s - loss: 0.8091
     mean_absolute_error: 0.5624 - val_loss
     : 15.1800 - val_mean_absolute_error:
     3812
2704 Epoch 1209/10000
     - 0s - loss: 0.8091 -
2705
     mean_absolute_error: 0.5623 - val_loss
       15.1794 - val_mean_absolute_error:
      3813
2706 Epoch 1210/10000
```

```
- 0s - loss: 0.8091 -
2707
     mean_absolute_error: 0.5623 - val_loss
       15.1805 - val_mean_absolute_error: 2
     . 3812
2708
2709 Epoch 01210: val_mean_absolute_error
     did not improve from 2.27144
2710 Epoch 1211/10000
2711
     - 0s - loss: 0.8091 -
     mean_absolute_error: 0.5625 - val_loss
       15.1808 - val_mean_absolute_error: 2
      3812
2712 Epoch 1212/10000
     - 0s - loss: 0.8091 -
2713
     mean_absolute_error: 0.5624 - val_loss
       15.1810 - val_mean_absolute_error: 2
      3812
2714 Epoch 1213/10000
    - 0s - loss: 0.8090 -
2715
     mean_absolute_error: 0.5624 - val_loss
       15.1805 - val_mean_absolute_error: 2
      3813
2716 Epoch 1214/10000
     - 0s - loss: 0.8090 -
2717 l
```

```
2717 mean_absolute_error: 0.5624 - val_loss
       15.1801 - val_mean_absolute_error: 2
      3812
2718 Epoch 1215/10000
2719 - 0s - loss: 0.8091 -
     mean_absolute_error: 0.5624 - val_loss
       15.1798 - val_mean_absolute_error: 2
      3812
2720 Epoch 1216/10000
2721 - 0s - loss: 0.8090 -
     mean_absolute_error: 0.5624 - val_loss
       15.1799 - val_mean_absolute_error: 2
     3812
2722 Epoch 1217/10000
2723 - 0s - Loss: 0.8091
     mean_absolute_error: 0.5624 - val_loss
     : 15.1804 - val_mean_absolute_error: 2
     3812
2724 Epoch 1218/10000
     - 0s - loss: 0.8092 -
2725
     mean_absolute_error: 0.5624 - val_loss
       15.1793 - val_mean_absolute_error:
      3813
2726 Epoch 1219/10000
```

2735 - 0s - Toss: 0.8091 - mean_absolute_error: 0.5624 - val_loss : 15.1785 - val_mean_absolute_error: 2 .3814

2736 Epoch 1223/10000

2737 - 0s - loss: 0.8091 -

```
2737 mean_absolute_error: 0.5623 - val_loss
       15.1783 - val_mean_absolute_error: 2
      3814
2738 Epoch 1224/10000
2739 - 0s - loss: 0.8090 -
     mean_absolute_error: 0.5623 - val_loss
       15.1786 - val_mean_absolute_error: 2
     3814
2740 Epoch 1225/10000
2741 - 0s - loss: 0.8091
     mean_absolute_error: 0.5623 - val_loss
       15.1784 - val_mean_absolute_error: 2
     3814
2742 Epoch 1226/10000
2743 - 0s - loss: 0.8090
     mean_absolute_error: 0.5623 - val_loss
     15.1779 - val_mean_absolute_error:
     3814
2744 Epoch 1227/10000
     - 0s - loss: 0.8090 -
2745
     mean_absolute_error: 0.5623 - val_loss
       15.1783 - val_mean_absolute_error:
      3814
2746 Epoch 1228/10000
```

```
- 0s - loss: 0.8089 -
2747
     mean_absolute_error: 0.5623 - val_loss
       15.1789 - val_mean_absolute_error: 2
      3814
2748 Epoch 1229/10000
     - 0s - loss: 0.8090 -
2749
     mean_absolute_error: 0.5623 - val_loss
       15.1799 - val_mean_absolute_error: 2
      3812
2750 Epoch 1230/10000
     - 0s - loss: 0.8090 -
2751
     mean_absolute_error: 0.5623 - val_loss
       15.1791 - val_mean_absolute_error:
     . 3813
2752
2753 Epoch 01230: val_mean_absolute_error
     did not improve from 2.27144
2754 Epoch 1231/10000
    - 0s - loss: 0.8090 -
2755
     mean_absolute_error: 0.5623 - val_loss
       15.1790 - val_mean_absolute_error: 2
      3813
2756 Epoch 1232/10000
     - 0s - loss: 0.8089 -
2757 l
```

```
2757 mean_absolute_error: 0.5623 - val_loss
       15.1785 - val_mean_absolute_error: 2
      3814
2758 Epoch 1233/10000
2759 - 0s - loss: 0.8090 -
     mean_absolute_error: 0.5624 - val_loss
       15.1787 - val_mean_absolute_error: 2
      3814
2760 Epoch 1234/10000
2761 - 0s - loss: 0.8090 -
     mean_absolute_error: 0.5624 - val_loss
       15.1786 - val_mean_absolute_error: 2
     3814
2762 Epoch 1235/10000
2763 - 0s - loss: 0.8090
     mean_absolute_error: 0.5624 - val_loss
     15.1797 - val_mean_absolute_error:
     3813
2764 Epoch 1236/10000
     - 0s - loss: 0.8088 -
2765
     mean_absolute_error: 0.5622 - val_loss
       15.1794 - val_mean_absolute_error:
      3814
2766 Epoch 1237/10000
```

```
- 0s - loss: 0.8090 -
2767
     mean_absolute_error: 0.5623 - val_loss
       15.1796 - val_mean_absolute_error: 2
      3814
2768 Epoch 1238/10000
2769 - 0s - loss: 0.8089 -
     mean_absolute_error: 0.5624 - val_loss
       15.1785 - val_mean_absolute_error: 2
      3815
2770 Epoch 1239/10000
     - 0s - loss: 0.8089 -
2771 l
     mean_absolute_error: 0.5623 - val_loss
       15.1784 - val_mean_absolute_error: 2
     3816
2772 Epoch 1240/10000
     - 0s - loss: 0.8089 -
2773
     mean_absolute_error: 0.5622 - val_loss
       15.1781 - val_mean_absolute_error: 2
     3816
2774
    Epoch 01240: val_mean_absolute_error
2775
     did not improve from 2.27144
2776 Epoch 1241/10000
2777 - 0s - loss: 0.8089
```

```
2777 mean_absolute_error: 0.5624 - val_loss
       15.1784 - val_mean_absolute_error: 2
      3816
2778 Epoch 1242/10000
2779 - 0s - loss: 0.8089 -
     mean_absolute_error: 0.5624 - val_loss
       15.1789 - val_mean_absolute_error: 2
     3815
2780 Epoch 1243/10000
2781 - 0s - loss: 0.8089 -
     mean_absolute_error: 0.5623 - val_loss
       15.1780 - val_mean_absolute_error: 2
     3816
2782 Epoch 1244/10000
2783 - 0s - loss: 0.8089
     mean_absolute_error: 0.5624 - val_loss
     15.1783 - val_mean_absolute_error:
     3815
2784 Epoch 1245/10000
     - 0s - loss: 0.8090 -
2785
     mean_absolute_error: 0.5623 - val_loss
       15.1785 - val_mean_absolute_error:
      3815
2786 Epoch 1246/10000
```

```
- 0s - loss: 0.8089 -
2787
     mean_absolute_error: 0.5623 - val_loss
       15.1779 - val_mean_absolute_error: 2
      3816
2788 Epoch 1247/10000
     - 0s - loss: 0.8089 -
2789
     mean_absolute_error: 0.5624 - val_loss
       15.1789 - val_mean_absolute_error: 2
      3815
2790 Epoch 1248/10000
     - 0s - loss: 0.8088 -
2791 l
     mean_absolute_error: 0.5623 - val_loss
       15.1787 - val_mean_absolute_error:
      3815
2792 Epoch 1249/10000
     - 0s - loss: 0.8088 -
2793
     mean_absolute_error: 0.5623 - val_loss
       15.1789 - val_mean_absolute_error: 2
      3815
2794 Epoch 1250/10000
     - 0s - loss: 0.8089 -
2795
     mean_absolute_error: 0.5622 - val_loss
     : 15.1794 - val_mean_absolute_error: 2
     3815
```

```
2796
    Epoch 01250: val_mean_absolute_error
2797
     did not improve from 2.27144
2798 Epoch 1251/10000
2799 - 0s - loss: 0.8090 -
     mean_absolute_error: 0.5623 - val_loss
       15.1794 - val_mean_absolute_error: 2
      3815
2800 Epoch 1252/10000
2801 - 0s - loss: 0.8089 -
     mean_absolute_error: 0.5622 - val_loss
       15.1787 - val_mean_absolute_error: 2
     3816
2802 Epoch 1253/10000
2803 - 0s - loss: 0.8089
     mean_absolute_error: 0.5623 - val_loss
       15.1788 - val_mean_absolute_error:
      3816
2804 Epoch 1254/10000
     - 0s - loss: 0.8089 -
2805
     mean_absolute_error: 0.5622 - val_loss
       15.1798 - val_mean_absolute_error:
      3815
2806 Epoch 1255/10000
```

```
- 0s - loss: 0.8089 -
2807
     mean_absolute_error: 0.5622 - val_loss
       15.1800 - val_mean_absolute_error: 2
      3815
2808 Epoch 1256/10000
     - 0s - loss: 0.8088 -
2809
     mean_absolute_error: 0.5623 - val_loss
       15.1795 - val_mean_absolute_error: 2
      3816
2810 Epoch 1257/10000
     - 0s - loss: 0.8089 -
2811 l
     mean_absolute_error: 0.5623 - val_loss
       15.1795 - val_mean_absolute_error:
     3816
2812 Epoch 1258/10000
     - 0s - loss: 0.8087 -
2813
     mean_absolute_error: 0.5622 - val_loss
       15.1792 - val_mean_absolute_error: 2
      3817
2814 Epoch 1259/10000
     - 0s - loss: 0.8088 -
2815
     mean_absolute_error: 0.5623 - val_loss
       15.1799 - val_mean_absolute_error: 2
     3815
```

```
File - boston01
2816 Epoch 1260/10000
      - 0s - loss: 0.8089 -
2817
     mean_absolute_error: 0.5624 - val_loss
       15.1797 - val_mean_absolute_error: 2
      . 3815
2818
2819 Epoch 01260: val_mean_absolute_error
     did not improve from 2.27144
2820 Epoch 1261/10000
2821 - 0s - loss: 0.8088 -
     mean_absolute_error: 0.5623 - val_loss
       15.1797 - val_mean_absolute_error: 2
      3815
2822 Epoch 1262/10000
2823 - 0s - loss: 0.8088
     mean_absolute_error: 0.5622 - val_loss
       15.1804 - val mean_absolute_error:
      3814
2824 Epoch 1263/10000
      - 0s - loss: 0.8089 -
2825
     mean_absolute_error: 0.5623 - val_loss
       15.1803 - val_mean_absolute_error:
      3813
2826 Epoch 1264/10000
```

```
- 0s - loss: 0.8088 -
2827
     mean_absolute_error: 0.5622 - val_loss
       15.1810 - val_mean_absolute_error: 2
      3812
2828 Epoch 1265/10000
     - 0s - loss: 0.8088 -
2829
     mean_absolute_error: 0.5623 - val_loss
       15.1800 - val_mean_absolute_error:
      3814
2830 Epoch 1266/10000
     - 0s - loss: 0.8088 -
2831
     mean_absolute_error: 0.5623 - val_loss
       15.1804 - val_mean_absolute_error:
     3813
2832 Epoch 1267/10000
     - 0s - loss: 0.8089 -
2833
     mean_absolute_error: 0.5623 - val_loss
       15.1808 - val_mean_absolute_error: 2
      3813
2834 Epoch 1268/10000
     - 0s - loss: 0.8088 -
2835
     mean_absolute_error: 0.5623 - val_loss
       15.1807 - val_mean_absolute_error: 2
     3812
```

```
File - boston01
2836 Epoch 1269/10000
      - 0s - loss: 0.8088 -
2837
     mean_absolute_error: 0.5623 - val_loss
       15.1806 - val_mean_absolute_error: 2
      3813
2838 Epoch 1270/10000
      - 0s - loss: 0.8088 -
2839
     mean_absolute_error: 0.5623 - val_loss
       15.1820 - val_mean_absolute_error: 2
      . 3811
2840
2841 Epoch 01270: val_mean_absolute_error
     did not improve from 2.27144
2842 Epoch 1271/10000
     - 0s - loss: 0.8087
2843
     mean_absolute_error: 0.5622 - val_loss
       15.1815 - val_mean_absolute_error:
      3811
2844 Epoch 1272/10000
      - 0s - loss: 0.8088 -
2845
     mean_absolute_error: 0.5622 - val_loss
       15.1813 - val_mean_absolute_error:
      3812
2846 Epoch 1273/10000
```

```
- 0s - loss: 0.8087 -
```

```
mean_absolute_error: 0.5623 - val_loss: 15.1822 - val_mean_absolute_error: 2
```

. 3810

```
2848 Epoch 1274/10000
```

mean_absolute_error: 0.5623 - val_loss : 15.1825 - val_mean_absolute_error: 2 .3810

2850 Epoch 1275/10000

mean_absolute_error: 0.5623 - val_loss : 15.1825 - val_mean_absolute_error: 2 .3810

2852 Epoch 1276/10000

mean_absolute_error: 0.5621 - val_loss : 15.1811 - val_mean_absolute_error: 2 .3812

2854 Epoch 1277/10000

mean_absolute_error: 0.5622 - val_loss : 15.1808 - val_mean_absolute_error: 2 .3812

```
File - boston01
2856 Epoch 1278/10000
      - 0s - loss: 0.8087 -
2857
     mean_absolute_error: 0.5622 - val_loss
       15.1809 - val_mean_absolute_error: 2
      3812
2858 Epoch 1279/10000
      - 0s - loss: 0.8089 -
2859
     mean_absolute_error: 0.5623 - val_loss
       15.1799 - val_mean_absolute_error: 2
      3814
2860 Epoch 1280/10000
      - 0s - loss: 0.8086 -
2861
     mean_absolute_error: 0.5623 - val_loss
       15.1807 - val_mean_absolute_error: 2
      3814
2862
2863 Epoch 01280: val_mean_absolute_error
     did not improve from 2.27144
2864 Epoch 1281/10000
      - 0s - loss: 0.8087 -
2865
     mean_absolute_error: 0.5623 - val_loss
       15.1810 - val_mean_absolute_error:
      3814
2866 Epoch 1282/10000
```

```
- 0s - loss: 0.8088 -
2867
     mean_absolute_error: 0.5624 - val_loss
       15.1801 - val_mean_absolute_error:
      3814
2868 Epoch 1283/10000
     - 0s - loss: 0.8088 -
2869
     mean_absolute_error: 0.5623 - val_loss
       15.1803 - val_mean_absolute_error:
      3814
2870 Epoch 1284/10000
2871
     - 0s - loss: 0.8087 -
     mean_absolute_error: 0.5623 - val_loss
       15.1806 - val_mean_absolute_error:
     3813
2872 Epoch 1285/10000
     - 0s - loss: 0.8087 -
2873
     mean_absolute_error: 0.5622 - val_loss
       15.1811 - val_mean_absolute_error: 2
      3813
2874 Epoch 1286/10000
     - 0s - loss: 0.8087 -
2875
     mean_absolute_error: 0.5623 - val_loss
       15.1810 - val_mean_absolute_error: 2
     3814
```

. 15. 1812 - Val_mean_absolute_error: 2
. 3814

2894 Epoch 1295/10000

2895 - 0s - loss: 0.8087
mean_absolute_error: 0.5622 - val_loss
: 15.1814 - val_mean_absolute_error: 2

3813

```
File - boston01
2896 Epoch 1296/10000
      - 0s - Loss: 0.8086 -
2897
     mean_absolute_error: 0.5622 - val_loss
       15.1815 - val_mean_absolute_error: 2
      3814
2898 Epoch 1297/10000
      - 0s - loss: 0.8087 -
2899
     mean_absolute_error: 0.5623 - val_loss
       15.1814 - val_mean_absolute_error: 2
      3815
2900 Epoch 1298/10000
      - 0s - loss: 0.8087 -
2901
     mean_absolute_error: 0.5623 - val_loss
       15. 1815 - val_mean_absolute_error: 2
      3814
2902 Epoch 1299/10000
      - 0s - loss: 0.8086 -
2903
     mean_absolute_error: 0.5622 - val_loss
       15.1802 - val_mean_absolute_error: 2
      3816
2904 Epoch 1300/10000
     - 0s - loss: 0.8087
2905
     mean_absolute_error: 0.5623 - val_loss
       15.1788 - val_mean_absolute_error: 2
```

```
File - boston01
2905 . 3816
2906
2907 Epoch 01300: val_mean_absolute_error
     did not improve from 2.27144
2908 Epoch 1301/10000
2909 - 0s - loss: 0.8085 -
     mean_absolute_error: 0.5623 - val_loss
       15.1796 - val_mean_absolute_error: 2
      3816
2910 Epoch 1302/10000
2911 - 0s - loss: 0.8087 -
     mean_absolute_error: 0.5623 - val_loss
       15.1798 - val_mean_absolute_error: 2
      3816
2912 Epoch 1303/10000
      - 0s - loss: 0.8086 -
2913
     mean_absolute_error: 0.5622 - val_loss
       15.1800 - val_mean_absolute_error: 2
      3816
2914 Epoch 1304/10000
      - 0s - loss: 0.8087 -
2915
     mean_absolute_error: 0.5623 - val_loss
     : 15.1800 - val_mean_absolute_error: 2
      3815
```

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mean_absolute_error: 0.5621 - val_loss

15.1820 - val_mean_absolute_error: 2

```
File - boston01
     . 3813
2925
2926 Epoch 1310/10000
2927 - 0s - loss: 0.8086
     mean_absolute_error: 0.5622 - val_loss
       15.1826 - val_mean_absolute_error: 2
      3812
2928
2929 Epoch 01310: val_mean_absolute_error
     did not improve from 2.27144
2930 Epoch 1311/10000
2931 - 0s - loss: 0.8086 -
     mean_absolute_error: 0.5622 - val_loss
       15.1828 - val_mean_absolute_error:
      3811
2932 Epoch 1312/10000
      - 0s - loss: 0.8085 -
2933
     mean_absolute_error: 0.5621 - val_loss
       15.1829 - val_mean_absolute_error: 2
      3811
2934 Epoch 1313/10000
      - 0s - loss: 0.8085 -
2935
     mean_absolute_error: 0.5621 - val_loss
     : 15.1832 - val_mean_absolute_error: 2
      3811
```

```
File - boston01
     . 3814
2945
2946 Epoch 1319/10000
      - 0s - loss: 0.8085
2947
     mean_absolute_error: 0.5622 - val_loss
       15.1812 - val_mean_absolute_error: 2
      3814
2948 Epoch 1320/10000
      - 0s - loss: 0.8087
2949 l
     mean_absolute_error: 0.5621 - val_loss
      15.1813 - val_mean_absolute_error:
      . 3814
2950
     Epoch 01320: val_mean_absolute_error
2951
     did not improve from 2.27144
2952 Epoch 1321/10000
      - 0s - loss: 0.8085 -
2953
     mean_absolute_error: 0.5621 - val_loss
       15.1814 - val_mean_absolute_error: 2
      3814
2954 Epoch 1322/10000
      - 0s - loss: 0.8085 -
2955
     mean_absolute_error: 0.5621 - val_loss
     : 15.1819 - val_mean_absolute_error: 2
      3813
```

15.1824 - val_mean_absolute_error: 2

```
File - boston01
     . 3813
2965
2966 Epoch 1328/10000
      - 0s - loss: 0.8084
2967
     mean_absolute_error: 0.5620 - val_loss
       15.1822 - val_mean_absolute_error: 2
      3813
2968 Epoch 1329/10000
2969 - 0s - loss: 0.8085
     mean_absolute_error: 0.5620 - val_loss
       15.1833 - val_mean_absolute_error:
      3812
2970 Epoch 1330/10000
      - 0s - loss: 0.8085 -
2971
     mean_absolute_error: 0.5619 - val_loss
       15.1824 - val_mean_absolute_error:
      3813
2972
2973 Epoch 01330: val_mean_absolute_error
     did not improve from 2.27144
2974 Epoch 1331/10000
      - 0s - loss: 0.8085 -
2975
     mean_absolute_error: 0.5620 - val_loss
       15.1814 - val_mean_absolute_error: 2
      3814
```

15.1839 - val_mean_absolute_error: 2

```
File - boston01
     . 3813
2985
2986 Epoch 1337/10000
      - 0s - loss: 0.8084
2987
     mean_absolute_error: 0.5620 - val_loss
       15.1841 - val_mean_absolute_error: 2
      3813
2988 Epoch 1338/10000
2989 - 0s - Loss: 0.8084
     mean_absolute_error: 0.5620 - val_loss
       15.1853 - val_mean_absolute_error:
      3811
2990 Epoch 1339/10000
2991
      - 0s - loss: 0.8084 -
     mean_absolute_error: 0.5620 - val_loss
       15.1853 - val_mean_absolute_error:
      3811
2992 Epoch 1340/10000
      - 0s - loss: 0.8085
2993
     mean_absolute_error: 0.5621 - val_loss
       15.1847 - val_mean_absolute_error:
      3812
2994
     Epoch 01340: val_mean_absolute_error
2995
     did not improve from 2.27144
```

```
File - boston01
2996 Epoch 1341/10000
      - 0s - Loss: 0.8085 -
2997
     mean_absolute_error: 0.5621 - val_loss
       15.1850 - val_mean_absolute_error: 2
      3812
2998 Epoch 1342/10000
      - 0s - loss: 0.8084 -
2999
     mean_absolute_error: 0.5620 - val_loss
       15.1859 - val_mean_absolute_error: 2
      3811
3000 Epoch 1343/10000
      - 0s - loss: 0.8084
3001
     mean_absolute_error: 0.5620 - val_loss
       15. 1857 - val_mean_absolute_error: 2
      3812
3002 Epoch 1344/10000
      - 0s - loss: 0.8084 -
3003
     mean_absolute_error: 0.5620 - val_loss
       15.1873 - val_mean_absolute_error: 2
      3810
3004 Epoch 1345/10000
     - 0s - loss: 0.8084
3005
     mean_absolute_error: 0.5621 - val_loss
      15.1868 - val_mean_absolute_error: 2
```

```
File - boston01
     . 3811
3005
3006 Epoch 1346/10000
      - 0s - loss: 0.8083
3007 l
     mean_absolute_error: 0.5620 - val_loss
       15.1862 - val_mean_absolute_error: 2
      3812
3008 Epoch 1347/10000
3009 - 0s - Loss: 0.8083
     mean_absolute_error: 0.5621 - val_loss
       15.1856 - val_mean_absolute_error:
      3812
3010 Epoch 1348/10000
3011
      - 0s - loss: 0.8084 -
     mean_absolute_error: 0.5621 - val_loss
       15.1854 - val_mean_absolute_error:
      3812
3012 Epoch 1349/10000
     - 0s - loss: 0.8084 -
3013
     mean_absolute_error: 0.5621 - val_loss
       15.1856 - val_mean_absolute_error:
      3813
3014 Epoch 1350/10000
     - 0s - loss: 0.8084 -
3015
     mean_absolute_error: 0.5621 - val_loss
```

```
15.1856 - val_mean_absolute_error: 2
3015
     3813
3016
3017 Epoch 01350: val_mean_absolute_error
     did not improve from 2.27144
3018 Epoch 1351/10000
     - 0s - loss: 0.8084
3019
     mean_absolute_error: 0.5621 - val_loss
       15.1847 - val_mean_absolute_error: 2
     3814
3020 Epoch 1352/10000
     - 0s - loss: 0.8083 -
3021
     mean_absolute_error: 0.5621 - val_loss
       15.1853 - val_mean_absolute_error: 2
     3813
3022 Epoch 1353/10000
     - 0s - loss: 0.8084 -
3023
     mean_absolute_error: 0.5620 - val_loss
       15.1857 - val_mean_absolute_error: 2
     3812
3024 Epoch 1354/10000
    - 0s - loss: 0.8083
3025
     mean_absolute_error: 0.5620 - val_loss
      15.1861 - val_mean_absolute_error: 2
```

```
File - boston01
     . 3811
3025
3026 Epoch 1355/10000
      - 0s - loss: 0.8084
3027
     mean_absolute_error: 0.5620 - val_loss
       15.1865 - val_mean_absolute_error: 2
      3811
3028 Epoch 1356/10000
3029 - 0s - loss: 0.8084
     mean_absolute_error: 0.5621 - val_loss
       15.1865 - val_mean_absolute_error:
      3810
3030 Epoch 1357/10000
3031
      - 0s - loss: 0.8084 -
     mean_absolute_error: 0.5621 - val_loss
       15.1858 - val_mean_absolute_error:
      3811
3032 Epoch 1358/10000
      - 0s - loss: 0.8084 -
3033
     mean_absolute_error: 0.5620 - val_loss
       15.1860 - val_mean_absolute_error:
      3811
3034 Epoch 1359/10000
      - 0s - loss: 0.8084 -
3035
     mean_absolute_error: 0.5620 - val_loss
```

```
15.1871 - val_mean_absolute_error: 2
3035
     3810
3036 Epoch 1360/10000
     - 0s - loss: 0.8082 -
3037
     mean_absolute_error: 0.5619 - val_loss
       15.1870 - val_mean_absolute_error: 2
     . 3810
3038
3039 Epoch 01360: val_mean_absolute_error
     did not improve from 2.27144
3040 Epoch 1361/10000
     - 0s - loss: 0.8084 -
3041
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