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1 - val_mean_absolute_error: 2.9223
2 epoch_end_callback epoch 9540 lr 1e-05
3 Epoch 9542/10000
4 - 0s - loss: 0.0010 - mean_absolute_error: 0.0062 - val_loss: 20
  .7627 - val_mean_absolute_error: 2.9233
5 epoch_end_callback epoch 9541 lr 1e-05
6 Epoch 9543/10000
7 - 0s - loss: 0.0011 - mean_absolute_error: 0.0068 - val_loss: 20
  .7520 - val_mean_absolute_error: 2.9225
8 epoch_end_callback epoch 9542 lr 1e-05
9 Epoch 9544/10000
10 - 0s - loss: 0.0011 - mean_absolute_error: 0.0075 - val_loss: 20
    .7500 - val_mean_absolute_error: 2.9226
11 epoch_end_callback epoch 9543 lr 1e-05
12 Epoch 9545/10000
13 - 0s - loss: 0.0011 - mean_absolute_error: 0.0073 - val_loss: 20
    .7569 - val_mean_absolute_error: 2.9232
14 epoch_end_callback epoch 9544 lr 1e-05
15 Epoch 9546/10000
16 - 0s - loss: 0.0011 - mean_absolute_error: 0.0066 - val_loss: 20
    .7562 - val_mean_absolute_error: 2.9228
17 epoch_end_callback epoch 9545 lr 1e-05
18 Epoch 9547/10000
19 - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss: 20
    .7765 - val_mean_absolute_error: 2.9243
20 epoch_end_callback epoch 9546 lr 1e-05
21 Epoch 9548/10000
22 - 0s - loss: 0.0011 - mean_absolute_error: 0.0065 - val_loss: 20
    .7635 - val_mean_absolute_error: 2.9234
23 epoch_end_callback epoch 9547 lr 1e-05
24 Epoch 9549/10000
25 - 0s - loss: 0.0011 - mean_absolute_error: 0.0071 - val_loss: 20
    .7465 - val_mean_absolute_error: 2.9228
26 epoch_end_callback epoch 9548 lr 1e-05
27 Epoch 9550/10000
28 - 0s - loss: 0.0011 - mean_absolute_error: 0.0069 - val_loss: 20
    .7589 - val_mean_absolute_error: 2.9233
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29
30 Epoch 09550: saving model to ./model/
model_Epoch9550_val_mean_absolute_error2.923.h5
31 epoch_end_callback epoch 9549 lr 1e-05
32 Epoch 9551/10000
33 - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss: 20
.7584 - val_mean_absolute_error: 2.9242
34 epoch_end_callback epoch 9550 lr 1e-05
35 Epoch 9552/10000
36 - 0s - loss: 0.0011 - mean_absolute_error: 0.0071 - val_loss: 20
.7532 - val_mean_absolute_error: 2.9225
37 epoch_end_callback epoch 9551 lr 1e-05
38 Epoch 9553/10000
39 - 0s - loss: 0.0011 - mean_absolute_error: 0.0076 - val_loss: 20
.7485 - val_mean_absolute_error: 2.9223
40 epoch_end_callback epoch 9552 lr 1e-05
41 Epoch 9554/10000
42 - 0s - loss: 0.0011 - mean_absolute_error: 0.0070 - val_loss: 20
.7481 - val_mean_absolute_error: 2.9224
43 epoch_end_callback epoch 9553 lr 1e-05
44 Epoch 9555/10000
45 - 0s - loss: 0.0011 - mean_absolute_error: 0.0071 - val_loss: 20
.7556 - val_mean_absolute_error: 2.9233
46 epoch_end_callback epoch 9554 lr 1e-05
47 Epoch 9556/10000
48 - 0s - loss: 9.5166e-04 - mean_absolute_error: 0.0062 - val_loss
: 20.7601 - val_mean_absolute_error: 2.9243
49 epoch_end_callback epoch 9555 lr 1e-05
50 Epoch 9557/10000
51 - 0s - loss: 0.0011 - mean_absolute_error: 0.0076 - val_loss: 20
.7566 - val_mean_absolute_error: 2.9229
52 epoch_end_callback epoch 9556 lr 1e-05
53 Epoch 9558/10000
54 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss: 20
.7410 - val_mean_absolute_error: 2.9233
55 epoch_end_callback epoch 9557 lr 1e-05
56 Epoch 9559/10000
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57 - 0s - loss: 0.0011 - mean_absolute_error: 0.0081 - val_loss: 20
    .7672 - val_mean_absolute_error: 2.9235
58 epoch_end_callback epoch 9558 lr 1e-05
59 Epoch 9560/10000
60 - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss: 20
    .7454 - val_mean_absolute_error: 2.9225
61
62 Epoch 09560: saving model to ./model/
    model_Epoch9560_val_mean_absolute_error2.922.h5
63 epoch_end_callback epoch 9559 lr 1e-05
64 Epoch 9561/10000
65 - 0s - loss: 0.0010 - mean_absolute_error: 0.0068 - val_loss: 20
    .7547 - val_mean_absolute_error: 2.9236
66 epoch_end_callback epoch 9560 lr 1e-05
67 Epoch 9562/10000
68 - 0s - loss: 0.0011 - mean_absolute_error: 0.0074 - val_loss: 20
    .7478 - val_mean_absolute_error: 2.9228
69 epoch_end_callback epoch 9561 lr 1e-05
70 Epoch 9563/10000
71 - 0s - loss: 0.0011 - mean_absolute_error: 0.0066 - val_loss: 20
    .7546 - val_mean_absolute_error: 2.9230
72 epoch_end_callback epoch 9562 lr 1e-05
73 Epoch 9564/10000
74 - 0s - loss: 0.0011 - mean_absolute_error: 0.0065 - val_loss: 20
    .7589 - val_mean_absolute_error: 2.9242
75 epoch_end_callback epoch 9563 lr 1e-05
76 Epoch 9565/10000
77 - 0s - loss: 0.0011 - mean_absolute_error: 0.0065 - val_loss: 20
    .7562 - val_mean_absolute_error: 2.9233
78 epoch_end_callback epoch 9564 lr 1e-05
79 Epoch 9566/10000
80 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss: 20
    .7612 - val_mean_absolute_error: 2.9240
81 epoch_end_callback epoch 9565 lr 1e-05
82 Epoch 9567/10000
83 - 0s - loss: 0.0011 - mean_absolute_error: 0.0071 - val_loss: 20
    .7588 - val_mean_absolute_error: 2.9231
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84 epoch_end_callback epoch 9566 lr 1e-05
85 Epoch 9568/10000
86 - 0s - loss: 0.0011 - mean_absolute_error: 0.0074 - val_loss:
20.7580 - val_mean_absolute_error: 2.9243
87 epoch_end_callback epoch 9567 lr 1e-05
88 Epoch 9569/10000
89 - 0s - loss: 0.0011 - mean_absolute_error: 0.0069 - val_loss:
20.7531 - val_mean_absolute_error: 2.9232
90 epoch_end_callback epoch 9568 lr 1e-05
91 Epoch 9570/10000
92 - 0s - loss: 0.0010 - mean_absolute_error: 0.0075 - val_loss:
20.7608 - val_mean_absolute_error: 2.9244
93
94 Epoch 09570: saving model to ./model/
model_Epoch9570_val_mean_absolute_error2.924.h5
95 epoch_end_callback epoch 9569 lr 1e-05
96 Epoch 9571/10000
97 - 0s - loss: 0.0011 - mean_absolute_error: 0.0069 - val_loss:
20.7517 - val_mean_absolute_error: 2.9229
98 epoch_end_callback epoch 9570 lr 1e-05
99 Epoch 9572/10000
100 - 0s - loss: 0.0010 - mean_absolute_error: 0.0066 - val_loss:
20.7551 - val_mean_absolute_error: 2.9233
101 epoch_end_callback epoch 9571 lr 1e-05
102 Epoch 9573/10000
103 - 0s - loss: 0.0011 - mean_absolute_error: 0.0064 - val_loss:
20.7513 - val_mean_absolute_error: 2.9226
104 epoch_end_callback epoch 9572 lr 1e-05
105 Epoch 9574/10000
106 - 0s - loss: 0.0011 - mean_absolute_error: 0.0068 - val_loss:
20.7605 - val_mean_absolute_error: 2.9233
107 epoch_end_callback epoch 9573 lr 1e-05
108 Epoch 9575/10000
109 - 0s - loss: 0.0011 - mean_absolute_error: 0.0071 - val_loss:
20.7565 - val_mean_absolute_error: 2.9232
110 epoch_end_callback epoch 9574 lr 1e-05
111 Epoch 9576/10000
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112 - 0s - loss: 0.0011 - mean_absolute_error: 0.0070 - val_loss:
    20.7696 - val_mean_absolute_error: 2.9230
113 epoch_end_callback epoch 9575 lr 1e-05
114 Epoch 9577/10000
115 - 0s - loss: 0.0010 - mean_absolute_error: 0.0066 - val_loss:
    20.7781 - val_mean_absolute_error: 2.9235
116 epoch_end_callback epoch 9576 lr 1e-05
117 Epoch 9578/10000
118 - 0s - loss: 0.0011 - mean_absolute_error: 0.0065 - val_loss:
    20.7615 - val_mean_absolute_error: 2.9241
119 epoch_end_callback epoch 9577 lr 1e-05
120 Epoch 9579/10000
121 - 0s - loss: 0.0011 - mean_absolute_error: 0.0080 - val_loss:
    20.7652 - val_mean_absolute_error: 2.9233
122 epoch_end_callback epoch 9578 lr 1e-05
123 Epoch 9580/10000
124 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
    20.7607 - val_mean_absolute_error: 2.9236
125
126 Epoch 09580: saving model to ./model/
    model_Epoch9580_val_mean_absolute_error2.924.h5
127 epoch_end_callback epoch 9579 lr 1e-05
128 Epoch 9581/10000
129 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
    20.7607 - val_mean_absolute_error: 2.9239
130 epoch_end_callback epoch 9580 lr 1e-05
131 Epoch 9582/10000
132 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
    20.7414 - val_mean_absolute_error: 2.9230
133 epoch_end_callback epoch 9581 lr 1e-05
134 Epoch 9583/10000
135 - 0s - loss: 0.0011 - mean_absolute_error: 0.0069 - val_loss:
    20.7556 - val_mean_absolute_error: 2.9224
136 epoch_end_callback epoch 9582 lr 1e-05
137 Epoch 9584/10000
138 - 0s - loss: 0.0011 - mean_absolute_error: 0.0068 - val_loss:
    20.7606 - val_mean_absolute_error: 2.9234
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139 epoch_end_callback epoch 9583 lr 1e-05
140 Epoch 9585/10000
141 - 0s - loss: 0.0011 - mean_absolute_error: 0.0073 - val_loss:
20.7616 - val_mean_absolute_error: 2.9231
142 epoch_end_callback epoch 9584 lr 1e-05
143 Epoch 9586/10000
144 - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss:
20.7668 - val_mean_absolute_error: 2.9239
145 epoch_end_callback epoch 9585 lr 1e-05
146 Epoch 9587/10000
147 - 0s - loss: 0.0010 - mean_absolute_error: 0.0065 - val_loss:
20.7509 - val_mean_absolute_error: 2.9230
148 epoch_end_callback epoch 9586 lr 1e-05
149 Epoch 9588/10000
150 - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
20.7583 - val_mean_absolute_error: 2.9246
151 epoch_end_callback epoch 9587 lr 1e-05
152 Epoch 9589/10000
153 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
20.7497 - val_mean_absolute_error: 2.9231
154 epoch_end_callback epoch 9588 lr 1e-05
155 Epoch 9590/10000
156 - 0s - loss: 0.0011 - mean_absolute_error: 0.0069 - val_loss:
20.7670 - val_mean_absolute_error: 2.9237
157
158 Epoch 09590: saving model to ./model/
model_Epoch9590_val_mean_absolute_error2.924.h5
159 epoch_end_callback epoch 9589 lr 1e-05
160 Epoch 9591/10000
161 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7598 - val_mean_absolute_error: 2.9231
162 epoch_end_callback epoch 9590 lr 1e-05
163 Epoch 9592/10000
164 - 0s - loss: 0.0011 - mean_absolute_error: 0.0059 - val_loss:
20.7566 - val_mean_absolute_error: 2.9234
165 epoch_end_callback epoch 9591 lr 1e-05
166 Epoch 9593/10000
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167 - 0s - loss: 0.0011 - mean_absolute_error: 0.0075 - val_loss:
    20.7569 - val_mean_absolute_error: 2.9238
168 epoch_end_callback epoch 9592 lr 1e-05
169 Epoch 9594/10000
170 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
    20.7593 - val_mean_absolute_error: 2.9228
171 epoch_end_callback epoch 9593 lr 1e-05
172 Epoch 9595/10000
173 - 0s - loss: 0.0011 - mean_absolute_error: 0.0075 - val_loss:
    20.7618 - val_mean_absolute_error: 2.9227
174 epoch_end_callback epoch 9594 lr 1e-05
175 Epoch 9596/10000
176 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
    20.7597 - val_mean_absolute_error: 2.9234
177 epoch_end_callback epoch 9595 lr 1e-05
178 Epoch 9597/10000
179 - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss:
    20.7579 - val_mean_absolute_error: 2.9226
180 epoch_end_callback epoch 9596 lr 1e-05
181 Epoch 9598/10000
182 - 0s - loss: 0.0011 - mean_absolute_error: 0.0068 - val_loss:
    20.7569 - val_mean_absolute_error: 2.9234
183 epoch_end_callback epoch 9597 lr 1e-05
184 Epoch 9599/10000
185 - 0s - loss: 0.0011 - mean_absolute_error: 0.0068 - val_loss:
    20.7559 - val_mean_absolute_error: 2.9229
186 epoch_end_callback epoch 9598 lr 1e-05
187 Epoch 9600/10000
188 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
    20.7644 - val_mean_absolute_error: 2.9234
189
190 Epoch 09600: saving model to ./model/
    model_Epoch9600_val_mean_absolute_error2.923.h5
191 epoch_end_callback epoch 9599 lr 1e-05
192 Epoch 9601/10000
193 - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss:
    20.7605 - val_mean_absolute_error: 2.9232
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194 epoch_end_callback epoch 9600 lr 1e-05
195 Epoch 9602/10000
196 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7574 - val_mean_absolute_error: 2.9230
197 epoch_end_callback epoch 9601 lr 1e-05
198 Epoch 9603/10000
199 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
20.7695 - val_mean_absolute_error: 2.9238
200 epoch_end_callback epoch 9602 lr 1e-05
201 Epoch 9604/10000
202 - 0s - loss: 0.0011 - mean_absolute_error: 0.0071 - val_loss:
20.7663 - val_mean_absolute_error: 2.9238
203 epoch_end_callback epoch 9603 lr 1e-05
204 Epoch 9605/10000
205 - 0s - loss: 0.0011 - mean_absolute_error: 0.0075 - val_loss:
20.7569 - val_mean_absolute_error: 2.9230
206 epoch_end_callback epoch 9604 lr 1e-05
207 Epoch 9606/10000
208 - 0s - loss: 0.0011 - mean_absolute_error: 0.0062 - val_loss:
20.7504 - val_mean_absolute_error: 2.9226
209 epoch_end_callback epoch 9605 lr 1e-05
210 Epoch 9607/10000
211 - 0s - loss: 0.0011 - mean_absolute_error: 0.0062 - val_loss:
20.7562 - val_mean_absolute_error: 2.9234
212 epoch_end_callback epoch 9606 lr 1e-05
213 Epoch 9608/10000
214 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7568 - val_mean_absolute_error: 2.9227
215 epoch_end_callback epoch 9607 lr 1e-05
216 Epoch 9609/10000
217 - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss:
20.7551 - val_mean_absolute_error: 2.9230
218 epoch_end_callback epoch 9608 lr 1e-05
219 Epoch 9610/10000
220 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7598 - val_mean_absolute_error: 2.9225
221
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222 Epoch 09610: saving model to ./model/
    model_Epoch9610_val_mean_absolute_error2.922.h5
223 epoch_end_callback epoch 9609 lr 1e-05
224 Epoch 9611/10000
225   - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
    20.7420 - val_mean_absolute_error: 2.9225
226 epoch_end_callback epoch 9610 lr 1e-05
227 Epoch 9612/10000
228   - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
    20.7647 - val_mean_absolute_error: 2.9234
229 epoch_end_callback epoch 9611 lr 1e-05
230 Epoch 9613/10000
231   - 0s - loss: 0.0010 - mean_absolute_error: 0.0058 - val_loss:
    20.7512 - val_mean_absolute_error: 2.9225
232 epoch_end_callback epoch 9612 lr 1e-05
233 Epoch 9614/10000
234   - 0s - loss: 0.0011 - mean_absolute_error: 0.0070 - val_loss:
    20.7681 - val_mean_absolute_error: 2.9234
235 epoch_end_callback epoch 9613 lr 1e-05
236 Epoch 9615/10000
237   - 0s - loss: 0.0010 - mean_absolute_error: 0.0075 - val_loss:
    20.7506 - val_mean_absolute_error: 2.9225
238 epoch_end_callback epoch 9614 lr 1e-05
239 Epoch 9616/10000
240   - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
    20.7601 - val_mean_absolute_error: 2.9238
241 epoch_end_callback epoch 9615 lr 1e-05
242 Epoch 9617/10000
243   - 0s - loss: 0.0011 - mean_absolute_error: 0.0070 - val_loss:
    20.7603 - val_mean_absolute_error: 2.9228
244 epoch_end_callback epoch 9616 lr 1e-05
245 Epoch 9618/10000
246   - 0s - loss: 0.0010 - mean_absolute_error: 0.0065 - val_loss:
    20.7594 - val_mean_absolute_error: 2.9239
247 epoch_end_callback epoch 9617 lr 1e-05
248 Epoch 9619/10000
249   - 0s - loss: 0.0011 - mean_absolute_error: 0.0073 - val_loss:
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249 20.7754 - val_mean_absolute_error: 2.9243
250 epoch_end_callback epoch 9618 lr 1e-05
251 Epoch 9620/10000
252 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7568 - val_mean_absolute_error: 2.9234
253
254 Epoch 09620: saving model to ./model/
model_Epoch9620_val_mean_absolute_error2.923.h5
255 epoch_end_callback epoch 9619 lr 1e-05
256 Epoch 9621/10000
257 - 0s - loss: 0.0011 - mean_absolute_error: 0.0062 - val_loss:
20.7582 - val_mean_absolute_error: 2.9232
258 epoch_end_callback epoch 9620 lr 1e-05
259 Epoch 9622/10000
260 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7571 - val_mean_absolute_error: 2.9233
261 epoch_end_callback epoch 9621 lr 1e-05
262 Epoch 9623/10000
263 - 0s - loss: 9.4113e-04 - mean_absolute_error: 0.0058 -
val_loss: 20.7639 - val_mean_absolute_error: 2.9240
264 epoch_end_callback epoch 9622 lr 1e-05
265 Epoch 9624/10000
266 - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss:
20.7719 - val_mean_absolute_error: 2.9242
267 epoch_end_callback epoch 9623 lr 1e-05
268 Epoch 9625/10000
269 - 0s - loss: 0.0011 - mean_absolute_error: 0.0071 - val_loss:
20.7593 - val_mean_absolute_error: 2.9237
270 epoch_end_callback epoch 9624 lr 1e-05
271 Epoch 9626/10000
272 - 0s - loss: 0.0011 - mean_absolute_error: 0.0065 - val_loss:
20.7734 - val_mean_absolute_error: 2.9227
273 epoch_end_callback epoch 9625 lr 1e-05
274 Epoch 9627/10000
275 - 0s - loss: 0.0011 - mean_absolute_error: 0.0076 - val_loss:
20.7567 - val_mean_absolute_error: 2.9233
276 epoch_end_callback epoch 9626 lr 1e-05
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277 Epoch 9628/10000
278   - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
279   20.7328 - val_mean_absolute_error: 2.9232
279 epoch_end_callback epoch 9627 lr 1e-05
280 Epoch 9629/10000
281   - 0s - loss: 0.0011 - mean_absolute_error: 0.0076 - val_loss:
282   20.7457 - val_mean_absolute_error: 2.9221
282 epoch_end_callback epoch 9628 lr 1e-05
283 Epoch 9630/10000
284   - 0s - loss: 0.0010 - mean_absolute_error: 0.0077 - val_loss:
285   20.7620 - val_mean_absolute_error: 2.9225
285
286 Epoch 09630: saving model to ./model/
287   model_Epoch9630_val_mean_absolute_error2.922.h5
287 epoch_end_callback epoch 9629 lr 1e-05
288 Epoch 9631/10000
289   - 0s - loss: 9.4332e-04 - mean_absolute_error: 0.0064 -
290   val_loss: 20.7664 - val_mean_absolute_error: 2.9237
290 epoch_end_callback epoch 9630 lr 1e-05
291 Epoch 9632/10000
292   - 0s - loss: 0.0011 - mean_absolute_error: 0.0080 - val_loss:
293   20.7727 - val_mean_absolute_error: 2.9240
293 epoch_end_callback epoch 9631 lr 1e-05
294 Epoch 9633/10000
295   - 0s - loss: 0.0011 - mean_absolute_error: 0.0071 - val_loss:
296   20.7511 - val_mean_absolute_error: 2.9236
296 epoch_end_callback epoch 9632 lr 1e-05
297 Epoch 9634/10000
298   - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
299   20.7617 - val_mean_absolute_error: 2.9229
299 epoch_end_callback epoch 9633 lr 1e-05
300 Epoch 9635/10000
301   - 0s - loss: 0.0011 - mean_absolute_error: 0.0077 - val_loss:
302   20.7595 - val_mean_absolute_error: 2.9244
302 epoch_end_callback epoch 9634 lr 1e-05
303 Epoch 9636/10000
304   - 0s - loss: 0.0011 - mean_absolute_error: 0.0073 - val_loss:
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304 20.7705 - val_mean_absolute_error: 2.9231
305 epoch_end_callback epoch 9635 lr 1e-05
306 Epoch 9637/10000
307 - 0s - loss: 0.0010 - mean_absolute_error: 0.0063 - val_loss:
20.7872 - val_mean_absolute_error: 2.9247
308 epoch_end_callback epoch 9636 lr 1e-05
309 Epoch 9638/10000
310 - 0s - loss: 9.9821e-04 - mean_absolute_error: 0.0075 -
val_loss: 20.7587 - val_mean_absolute_error: 2.9235
311 epoch_end_callback epoch 9637 lr 1e-05
312 Epoch 9639/10000
313 - 0s - loss: 0.0010 - mean_absolute_error: 0.0068 - val_loss:
20.7705 - val_mean_absolute_error: 2.9233
314 epoch_end_callback epoch 9638 lr 1e-05
315 Epoch 9640/10000
316 - 0s - loss: 0.0010 - mean_absolute_error: 0.0064 - val_loss:
20.7565 - val_mean_absolute_error: 2.9238
317
318 Epoch 09640: saving model to ./model/
model_Epoch9640_val_mean_absolute_error2.924.h5
319 epoch_end_callback epoch 9639 lr 1e-05
320 Epoch 9641/10000
321 - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss:
20.7625 - val_mean_absolute_error: 2.9232
322 epoch_end_callback epoch 9640 lr 1e-05
323 Epoch 9642/10000
324 - 0s - loss: 9.3675e-04 - mean_absolute_error: 0.0057 -
val_loss: 20.7540 - val_mean_absolute_error: 2.9235
325 epoch_end_callback epoch 9641 lr 1e-05
326 Epoch 9643/10000
327 - 0s - loss: 0.0011 - mean_absolute_error: 0.0075 - val_loss:
20.7553 - val_mean_absolute_error: 2.9232
328 epoch_end_callback epoch 9642 lr 1e-05
329 Epoch 9644/10000
330 - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss:
20.7618 - val_mean_absolute_error: 2.9235
331 epoch_end_callback epoch 9643 lr 1e-05
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332 Epoch 9645/10000
333   - 0s - loss: 0.0011 - mean_absolute_error: 0.0070 - val_loss:
20.7621 - val_mean_absolute_error: 2.9235
334 epoch_end_callback epoch 9644 lr 1e-05
335 Epoch 9646/10000
336   - 0s - loss: 0.0010 - mean_absolute_error: 0.0068 - val_loss:
20.7552 - val_mean_absolute_error: 2.9234
337 epoch_end_callback epoch 9645 lr 1e-05
338 Epoch 9647/10000
339   - 0s - loss: 0.0011 - mean_absolute_error: 0.0075 - val_loss:
20.7617 - val_mean_absolute_error: 2.9235
340 epoch_end_callback epoch 9646 lr 1e-05
341 Epoch 9648/10000
342   - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
20.7468 - val_mean_absolute_error: 2.9237
343 epoch_end_callback epoch 9647 lr 1e-05
344 Epoch 9649/10000
345   - 0s - loss: 0.0011 - mean_absolute_error: 0.0068 - val_loss:
20.7632 - val_mean_absolute_error: 2.9229
346 epoch_end_callback epoch 9648 lr 1e-05
347 Epoch 9650/10000
348   - 0s - loss: 0.0011 - mean_absolute_error: 0.0073 - val_loss:
20.7775 - val_mean_absolute_error: 2.9244
349
350 Epoch 09650: saving model to ./model/
model_Epoch9650_val_mean_absolute_error2.924.h5
351 epoch_end_callback epoch 9649 lr 1e-05
352 Epoch 9651/10000
353   - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss:
20.7695 - val_mean_absolute_error: 2.9242
354 epoch_end_callback epoch 9650 lr 1e-05
355 Epoch 9652/10000
356   - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
20.7481 - val_mean_absolute_error: 2.9228
357 epoch_end_callback epoch 9651 lr 1e-05
358 Epoch 9653/10000
359   - 0s - loss: 0.0011 - mean_absolute_error: 0.0068 - val_loss:
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359 20.7638 - val_mean_absolute_error: 2.9235
360 epoch_end_callback epoch 9652 lr 1e-05
361 Epoch 9654/10000
362 - 0s - loss: 0.0011 - mean_absolute_error: 0.0069 - val_loss:
20.7520 - val_mean_absolute_error: 2.9225
363 epoch_end_callback epoch 9653 lr 1e-05
364 Epoch 9655/10000
365 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7573 - val_mean_absolute_error: 2.9229
366 epoch_end_callback epoch 9654 lr 1e-05
367 Epoch 9656/10000
368 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7509 - val_mean_absolute_error: 2.9227
369 epoch_end_callback epoch 9655 lr 1e-05
370 Epoch 9657/10000
371 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
20.7634 - val_mean_absolute_error: 2.9234
372 epoch_end_callback epoch 9656 lr 1e-05
373 Epoch 9658/10000
374 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
20.7607 - val_mean_absolute_error: 2.9231
375 epoch_end_callback epoch 9657 lr 1e-05
376 Epoch 9659/10000
377 - 0s - loss: 0.0011 - mean_absolute_error: 0.0071 - val_loss:
20.7642 - val_mean_absolute_error: 2.9235
378 epoch_end_callback epoch 9658 lr 1e-05
379 Epoch 9660/10000
380 - 0s - loss: 0.0011 - mean_absolute_error: 0.0065 - val_loss:
20.7533 - val_mean_absolute_error: 2.9227
381
382 Epoch 09660: saving model to ./model/
model_Epoch9660_val_mean_absolute_error2.923.h5
383 epoch_end_callback epoch 9659 lr 1e-05
384 Epoch 9661/10000
385 - 0s - loss: 0.0010 - mean_absolute_error: 0.0066 - val_loss:
20.7566 - val_mean_absolute_error: 2.9231
386 epoch_end_callback epoch 9660 lr 1e-05
```

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387 Epoch 9662/10000
388   - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
20.7606 - val_mean_absolute_error: 2.9246
389 epoch_end_callback epoch 9661 lr 1e-05
390 Epoch 9663/10000
391   - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
20.7678 - val_mean_absolute_error: 2.9228
392 epoch_end_callback epoch 9662 lr 1e-05
393 Epoch 9664/10000
394   - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7637 - val_mean_absolute_error: 2.9241
395 epoch_end_callback epoch 9663 lr 1e-05
396 Epoch 9665/10000
397   - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7515 - val_mean_absolute_error: 2.9228
398 epoch_end_callback epoch 9664 lr 1e-05
399 Epoch 9666/10000
400   - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7529 - val_mean_absolute_error: 2.9242
401 epoch_end_callback epoch 9665 lr 1e-05
402 Epoch 9667/10000
403   - 0s - loss: 0.0011 - mean_absolute_error: 0.0074 - val_loss:
20.7680 - val_mean_absolute_error: 2.9236
404 epoch_end_callback epoch 9666 lr 1e-05
405 Epoch 9668/10000
406   - 0s - loss: 0.0011 - mean_absolute_error: 0.0069 - val_loss:
20.7585 - val_mean_absolute_error: 2.9229
407 epoch_end_callback epoch 9667 lr 1e-05
408 Epoch 9669/10000
409   - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7609 - val_mean_absolute_error: 2.9235
410 epoch_end_callback epoch 9668 lr 1e-05
411 Epoch 9670/10000
412   - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7557 - val_mean_absolute_error: 2.9227
413
414 Epoch 09670: saving model to ./model/
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414 model_Epoch9670_val_mean_absolute_error2.923.h5
415 epoch_end_callback epoch 9669 lr 1e-05
416 Epoch 9671/10000
417 - 0s - loss: 0.0011 - mean_absolute_error: 0.0070 - val_loss:
20.7724 - val_mean_absolute_error: 2.9241
418 epoch_end_callback epoch 9670 lr 1e-05
419 Epoch 9672/10000
420 - 0s - loss: 9.8778e-04 - mean_absolute_error: 0.0066 -
val_loss: 20.7336 - val_mean_absolute_error: 2.9222
421 epoch_end_callback epoch 9671 lr 1e-05
422 Epoch 9673/10000
423 - 0s - loss: 0.0010 - mean_absolute_error: 0.0078 - val_loss:
20.7800 - val_mean_absolute_error: 2.9240
424 epoch_end_callback epoch 9672 lr 1e-05
425 Epoch 9674/10000
426 - 0s - loss: 9.8345e-04 - mean_absolute_error: 0.0066 -
val_loss: 20.7625 - val_mean_absolute_error: 2.9235
427 epoch_end_callback epoch 9673 lr 1e-05
428 Epoch 9675/10000
429 - 0s - loss: 9.9845e-04 - mean_absolute_error: 0.0060 -
val_loss: 20.7580 - val_mean_absolute_error: 2.9231
430 epoch_end_callback epoch 9674 lr 1e-05
431 Epoch 9676/10000
432 - 0s - loss: 9.4246e-04 - mean_absolute_error: 0.0063 -
val_loss: 20.7618 - val_mean_absolute_error: 2.9224
433 epoch_end_callback epoch 9675 lr 1e-05
434 Epoch 9677/10000
435 - 0s - loss: 0.0011 - mean_absolute_error: 0.0077 - val_loss:
20.7581 - val_mean_absolute_error: 2.9232
436 epoch_end_callback epoch 9676 lr 1e-05
437 Epoch 9678/10000
438 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
20.7631 - val_mean_absolute_error: 2.9234
439 epoch_end_callback epoch 9677 lr 1e-05
440 Epoch 9679/10000
441 - 0s - loss: 0.0011 - mean_absolute_error: 0.0068 - val_loss:
20.7744 - val_mean_absolute_error: 2.9237
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442 epoch_end_callback epoch 9678 lr 1e-05
443 Epoch 9680/10000
444   - 0s - loss: 0.0011 - mean_absolute_error: 0.0071 - val_loss:
    20.7599 - val_mean_absolute_error: 2.9235
445
446 Epoch 09680: saving model to ./model/
    model_Epoch9680_val_mean_absolute_error2.923.h5
447 epoch_end_callback epoch 9679 lr 1e-05
448 Epoch 9681/10000
449   - 0s - loss: 0.0011 - mean_absolute_error: 0.0061 - val_loss:
    20.7617 - val_mean_absolute_error: 2.9236
450 epoch_end_callback epoch 9680 lr 1e-05
451 Epoch 9682/10000
452   - 0s - loss: 9.3530e-04 - mean_absolute_error: 0.0059 -
    val_loss: 20.7636 - val_mean_absolute_error: 2.9228
453 epoch_end_callback epoch 9681 lr 1e-05
454 Epoch 9683/10000
455   - 0s - loss: 0.0011 - mean_absolute_error: 0.0086 - val_loss:
    20.7632 - val_mean_absolute_error: 2.9240
456 epoch_end_callback epoch 9682 lr 1e-05
457 Epoch 9684/10000
458   - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
    20.7610 - val_mean_absolute_error: 2.9235
459 epoch_end_callback epoch 9683 lr 1e-05
460 Epoch 9685/10000
461   - 0s - loss: 9.9981e-04 - mean_absolute_error: 0.0063 -
    val_loss: 20.7585 - val_mean_absolute_error: 2.9228
462 epoch_end_callback epoch 9684 lr 1e-05
463 Epoch 9686/10000
464   - 0s - loss: 0.0011 - mean_absolute_error: 0.0075 - val_loss:
    20.7617 - val_mean_absolute_error: 2.9234
465 epoch_end_callback epoch 9685 lr 1e-05
466 Epoch 9687/10000
467   - 0s - loss: 0.0011 - mean_absolute_error: 0.0063 - val_loss:
    20.7618 - val_mean_absolute_error: 2.9239
468 epoch_end_callback epoch 9686 lr 1e-05
469 Epoch 9688/10000
```

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470 - 0s - loss: 0.0011 - mean_absolute_error: 0.0062 - val_loss:
    20.7581 - val_mean_absolute_error: 2.9240
471 epoch_end_callback epoch 9687 lr 1e-05
472 Epoch 9689/10000
473 - 0s - loss: 0.0011 - mean_absolute_error: 0.0062 - val_loss:
    20.7595 - val_mean_absolute_error: 2.9228
474 epoch_end_callback epoch 9688 lr 1e-05
475 Epoch 9690/10000
476 - 0s - loss: 9.5867e-04 - mean_absolute_error: 0.0058 -
    val_loss: 20.7539 - val_mean_absolute_error: 2.9227
477
478 Epoch 09690: saving model to ./model/
    model_Epoch9690_val_mean_absolute_error2.923.h5
479 epoch_end_callback epoch 9689 lr 1e-05
480 Epoch 9691/10000
481 - 0s - loss: 0.0010 - mean_absolute_error: 0.0062 - val_loss:
    20.7541 - val_mean_absolute_error: 2.9230
482 epoch_end_callback epoch 9690 lr 1e-05
483 Epoch 9692/10000
484 - 0s - loss: 0.0011 - mean_absolute_error: 0.0063 - val_loss:
    20.7541 - val_mean_absolute_error: 2.9226
485 epoch_end_callback epoch 9691 lr 1e-05
486 Epoch 9693/10000
487 - 0s - loss: 0.0011 - mean_absolute_error: 0.0070 - val_loss:
    20.7569 - val_mean_absolute_error: 2.9229
488 epoch_end_callback epoch 9692 lr 1e-05
489 Epoch 9694/10000
490 - 0s - loss: 0.0010 - mean_absolute_error: 0.0068 - val_loss:
    20.7674 - val_mean_absolute_error: 2.9235
491 epoch_end_callback epoch 9693 lr 1e-05
492 Epoch 9695/10000
493 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
    20.7603 - val_mean_absolute_error: 2.9232
494 epoch_end_callback epoch 9694 lr 1e-05
495 Epoch 9696/10000
496 - 0s - loss: 0.0011 - mean_absolute_error: 0.0068 - val_loss:
    20.7545 - val_mean_absolute_error: 2.9234
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497 epoch_end_callback epoch 9695 lr 1e-05
498 Epoch 9697/10000
499   - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
      20.7642 - val_mean_absolute_error: 2.9235
500 epoch_end_callback epoch 9696 lr 1e-05
501 Epoch 9698/10000
502   - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
      20.7670 - val_mean_absolute_error: 2.9236
503 epoch_end_callback epoch 9697 lr 1e-05
504 Epoch 9699/10000
505   - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
      20.7487 - val_mean_absolute_error: 2.9232
506 epoch_end_callback epoch 9698 lr 1e-05
507 Epoch 9700/10000
508   - 0s - loss: 0.0011 - mean_absolute_error: 0.0069 - val_loss:
      20.7644 - val_mean_absolute_error: 2.9236
509
510 Epoch 09700: saving model to ./model/
      model_Epoch9700_val_mean_absolute_error2.924.h5
511 epoch_end_callback epoch 9699 lr 1e-05
512 Epoch 9701/10000
513   - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
      20.7619 - val_mean_absolute_error: 2.9236
514 epoch_end_callback epoch 9700 lr 1e-05
515 Epoch 9702/10000
516   - 0s - loss: 0.0011 - mean_absolute_error: 0.0065 - val_loss:
      20.7581 - val_mean_absolute_error: 2.9237
517 epoch_end_callback epoch 9701 lr 1e-05
518 Epoch 9703/10000
519   - 0s - loss: 0.0010 - mean_absolute_error: 0.0075 - val_loss:
      20.7638 - val_mean_absolute_error: 2.9229
520 epoch_end_callback epoch 9702 lr 1e-05
521 Epoch 9704/10000
522   - 0s - loss: 0.0010 - mean_absolute_error: 0.0077 - val_loss:
      20.7515 - val_mean_absolute_error: 2.9223
523 epoch_end_callback epoch 9703 lr 1e-05
524 Epoch 9705/10000
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525 - 0s - loss: 0.0011 - mean_absolute_error: 0.0067 - val_loss:
    20.7630 - val_mean_absolute_error: 2.9230
526 epoch_end_callback epoch 9704 lr 1e-05
527 Epoch 9706/10000
528 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
    20.7417 - val_mean_absolute_error: 2.9229
529 epoch_end_callback epoch 9705 lr 1e-05
530 Epoch 9707/10000
531 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
    20.7655 - val_mean_absolute_error: 2.9235
532 epoch_end_callback epoch 9706 lr 1e-05
533 Epoch 9708/10000
534 - 0s - loss: 0.0011 - mean_absolute_error: 0.0069 - val_loss:
    20.7558 - val_mean_absolute_error: 2.9224
535 epoch_end_callback epoch 9707 lr 1e-05
536 Epoch 9709/10000
537 - 0s - loss: 0.0010 - mean_absolute_error: 0.0066 - val_loss:
    20.7601 - val_mean_absolute_error: 2.9231
538 epoch_end_callback epoch 9708 lr 1e-05
539 Epoch 9710/10000
540 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
    20.7592 - val_mean_absolute_error: 2.9225
541
542 Epoch 09710: saving model to ./model/
    model_Epoch9710_val_mean_absolute_error2.923.h5
543 epoch_end_callback epoch 9709 lr 1e-05
544 Epoch 9711/10000
545 - 0s - loss: 0.0011 - mean_absolute_error: 0.0065 - val_loss:
    20.7606 - val_mean_absolute_error: 2.9229
546 epoch_end_callback epoch 9710 lr 1e-05
547 Epoch 9712/10000
548 - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
    20.7565 - val_mean_absolute_error: 2.9236
549 epoch_end_callback epoch 9711 lr 1e-05
550 Epoch 9713/10000
551 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
    20.7554 - val_mean_absolute_error: 2.9235
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552 epoch_end_callback epoch 9712 lr 1e-05
553 Epoch 9714/10000
554 - 0s - loss: 0.0011 - mean_absolute_error: 0.0073 - val_loss:
20.7611 - val_mean_absolute_error: 2.9240
555 epoch_end_callback epoch 9713 lr 1e-05
556 Epoch 9715/10000
557 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
20.7572 - val_mean_absolute_error: 2.9235
558 epoch_end_callback epoch 9714 lr 1e-05
559 Epoch 9716/10000
560 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
20.7567 - val_mean_absolute_error: 2.9228
561 epoch_end_callback epoch 9715 lr 1e-05
562 Epoch 9717/10000
563 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7540 - val_mean_absolute_error: 2.9223
564 epoch_end_callback epoch 9716 lr 1e-05
565 Epoch 9718/10000
566 - 0s - loss: 0.0010 - mean_absolute_error: 0.0075 - val_loss:
20.7578 - val_mean_absolute_error: 2.9238
567 epoch_end_callback epoch 9717 lr 1e-05
568 Epoch 9719/10000
569 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
20.7601 - val_mean_absolute_error: 2.9237
570 epoch_end_callback epoch 9718 lr 1e-05
571 Epoch 9720/10000
572 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
20.7646 - val_mean_absolute_error: 2.9232
573
574 Epoch 09720: saving model to ./model/
model_Epoch9720_val_mean_absolute_error2.923.h5
575 epoch_end_callback epoch 9719 lr 1e-05
576 Epoch 9721/10000
577 - 0s - loss: 0.0010 - mean_absolute_error: 0.0080 - val_loss:
20.7599 - val_mean_absolute_error: 2.9235
578 epoch_end_callback epoch 9720 lr 1e-05
579 Epoch 9722/10000
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580 - 0s - loss: 0.0010 - mean_absolute_error: 0.0068 - val_loss:
    20.7539 - val_mean_absolute_error: 2.9237
581 epoch_end_callback epoch 9721 lr 1e-05
582 Epoch 9723/10000
583 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
    20.7602 - val_mean_absolute_error: 2.9235
584 epoch_end_callback epoch 9722 lr 1e-05
585 Epoch 9724/10000
586 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
    20.7571 - val_mean_absolute_error: 2.9229
587 epoch_end_callback epoch 9723 lr 1e-05
588 Epoch 9725/10000
589 - 0s - loss: 0.0010 - mean_absolute_error: 0.0066 - val_loss:
    20.7583 - val_mean_absolute_error: 2.9230
590 epoch_end_callback epoch 9724 lr 1e-05
591 Epoch 9726/10000
592 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
    20.7837 - val_mean_absolute_error: 2.9247
593 epoch_end_callback epoch 9725 lr 1e-05
594 Epoch 9727/10000
595 - 0s - loss: 9.9378e-04 - mean_absolute_error: 0.0070 -
    val_loss: 20.7647 - val_mean_absolute_error: 2.9236
596 epoch_end_callback epoch 9726 lr 1e-05
597 Epoch 9728/10000
598 - 0s - loss: 0.0010 - mean_absolute_error: 0.0060 - val_loss:
    20.7436 - val_mean_absolute_error: 2.9228
599 epoch_end_callback epoch 9727 lr 1e-05
600 Epoch 9729/10000
601 - 0s - loss: 0.0011 - mean_absolute_error: 0.0070 - val_loss:
    20.7553 - val_mean_absolute_error: 2.9230
602 epoch_end_callback epoch 9728 lr 1e-05
603 Epoch 9730/10000
604 - 0s - loss: 0.0010 - mean_absolute_error: 0.0066 - val_loss:
    20.7506 - val_mean_absolute_error: 2.9231
605
606 Epoch 09730: saving model to ./model/
    model_Epoch9730_val_mean_absolute_error2.923.h5
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607 epoch_end_callback epoch 9729 lr 1e-05
608 Epoch 9731/10000
609 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
20.7629 - val_mean_absolute_error: 2.9235
610 epoch_end_callback epoch 9730 lr 1e-05
611 Epoch 9732/10000
612 - 0s - loss: 0.0011 - mean_absolute_error: 0.0071 - val_loss:
20.7558 - val_mean_absolute_error: 2.9229
613 epoch_end_callback epoch 9731 lr 1e-05
614 Epoch 9733/10000
615 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7527 - val_mean_absolute_error: 2.9230
616 epoch_end_callback epoch 9732 lr 1e-05
617 Epoch 9734/10000
618 - 0s - loss: 0.0011 - mean_absolute_error: 0.0070 - val_loss:
20.7540 - val_mean_absolute_error: 2.9225
619 epoch_end_callback epoch 9733 lr 1e-05
620 Epoch 9735/10000
621 - 0s - loss: 0.0011 - mean_absolute_error: 0.0065 - val_loss:
20.7599 - val_mean_absolute_error: 2.9230
622 epoch_end_callback epoch 9734 lr 1e-05
623 Epoch 9736/10000
624 - 0s - loss: 0.0010 - mean_absolute_error: 0.0065 - val_loss:
20.7611 - val_mean_absolute_error: 2.9234
625 epoch_end_callback epoch 9735 lr 1e-05
626 Epoch 9737/10000
627 - 0s - loss: 0.0011 - mean_absolute_error: 0.0068 - val_loss:
20.7606 - val_mean_absolute_error: 2.9232
628 epoch_end_callback epoch 9736 lr 1e-05
629 Epoch 9738/10000
630 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7594 - val_mean_absolute_error: 2.9237
631 epoch_end_callback epoch 9737 lr 1e-05
632 Epoch 9739/10000
633 - 0s - loss: 9.3378e-04 - mean_absolute_error: 0.0060 -
val_loss: 20.7510 - val_mean_absolute_error: 2.9229
634 epoch_end_callback epoch 9738 lr 1e-05
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635 Epoch 9740/10000
636   - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss:
    20.7648 - val_mean_absolute_error: 2.9235
637
638 Epoch 09740: saving model to ./model/
    model_Epoch9740_val_mean_absolute_error2.923.h5
639 epoch_end_callback epoch 9739 lr 1e-05
640 Epoch 9741/10000
641   - 0s - loss: 0.0011 - mean_absolute_error: 0.0075 - val_loss:
    20.7618 - val_mean_absolute_error: 2.9238
642 epoch_end_callback epoch 9740 lr 1e-05
643 Epoch 9742/10000
644   - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
    20.7626 - val_mean_absolute_error: 2.9221
645 epoch_end_callback epoch 9741 lr 1e-05
646 Epoch 9743/10000
647   - 0s - loss: 0.0011 - mean_absolute_error: 0.0070 - val_loss:
    20.7579 - val_mean_absolute_error: 2.9232
648 epoch_end_callback epoch 9742 lr 1e-05
649 Epoch 9744/10000
650   - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
    20.7676 - val_mean_absolute_error: 2.9226
651 epoch_end_callback epoch 9743 lr 1e-05
652 Epoch 9745/10000
653   - 0s - loss: 0.0011 - mean_absolute_error: 0.0071 - val_loss:
    20.7567 - val_mean_absolute_error: 2.9229
654 epoch_end_callback epoch 9744 lr 1e-05
655 Epoch 9746/10000
656   - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
    20.7600 - val_mean_absolute_error: 2.9225
657 epoch_end_callback epoch 9745 lr 1e-05
658 Epoch 9747/10000
659   - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
    20.7648 - val_mean_absolute_error: 2.9230
660 epoch_end_callback epoch 9746 lr 1e-05
661 Epoch 9748/10000
662   - 0s - loss: 0.0011 - mean_absolute_error: 0.0073 - val_loss:
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662 20.7720 - val_mean_absolute_error: 2.9238
663 epoch_end_callback epoch 9747 lr 1e-05
664 Epoch 9749/10000
665 - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss:
20.7565 - val_mean_absolute_error: 2.9232
666 epoch_end_callback epoch 9748 lr 1e-05
667 Epoch 9750/10000
668 - 0s - loss: 0.0010 - mean_absolute_error: 0.0065 - val_loss:
20.7611 - val_mean_absolute_error: 2.9229
669
670 Epoch 09750: saving model to ./model/
model_Epoch9750_val_mean_absolute_error2.923.h5
671 epoch_end_callback epoch 9749 lr 1e-05
672 Epoch 9751/10000
673 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
20.7732 - val_mean_absolute_error: 2.9239
674 epoch_end_callback epoch 9750 lr 1e-05
675 Epoch 9752/10000
676 - 0s - loss: 0.0011 - mean_absolute_error: 0.0064 - val_loss:
20.7561 - val_mean_absolute_error: 2.9226
677 epoch_end_callback epoch 9751 lr 1e-05
678 Epoch 9753/10000
679 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7591 - val_mean_absolute_error: 2.9236
680 epoch_end_callback epoch 9752 lr 1e-05
681 Epoch 9754/10000
682 - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss:
20.7743 - val_mean_absolute_error: 2.9241
683 epoch_end_callback epoch 9753 lr 1e-05
684 Epoch 9755/10000
685 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7609 - val_mean_absolute_error: 2.9225
686 epoch_end_callback epoch 9754 lr 1e-05
687 Epoch 9756/10000
688 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
20.7630 - val_mean_absolute_error: 2.9227
689 epoch_end_callback epoch 9755 lr 1e-05
```

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690 Epoch 9757/10000
691   - 0s - loss: 0.0010 - mean_absolute_error: 0.0079 - val_loss:
20.7621 - val_mean_absolute_error: 2.9237
692 epoch_end_callback epoch 9756 lr 1e-05
693 Epoch 9758/10000
694   - 0s - loss: 0.0010 - mean_absolute_error: 0.0063 - val_loss:
20.7661 - val_mean_absolute_error: 2.9241
695 epoch_end_callback epoch 9757 lr 1e-05
696 Epoch 9759/10000
697   - 0s - loss: 0.0011 - mean_absolute_error: 0.0070 - val_loss:
20.7576 - val_mean_absolute_error: 2.9233
698 epoch_end_callback epoch 9758 lr 1e-05
699 Epoch 9760/10000
700   - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7702 - val_mean_absolute_error: 2.9239
701
702 Epoch 09760: saving model to ./model/
model_Epoch9760_val_mean_absolute_error2.924.h5
703 epoch_end_callback epoch 9759 lr 1e-05
704 Epoch 9761/10000
705   - 0s - loss: 0.0011 - mean_absolute_error: 0.0073 - val_loss:
20.7631 - val_mean_absolute_error: 2.9238
706 epoch_end_callback epoch 9760 lr 1e-05
707 Epoch 9762/10000
708   - 0s - loss: 9.2791e-04 - mean_absolute_error: 0.0057 -
val_loss: 20.7552 - val_mean_absolute_error: 2.9230
709 epoch_end_callback epoch 9761 lr 1e-05
710 Epoch 9763/10000
711   - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
20.7644 - val_mean_absolute_error: 2.9231
712 epoch_end_callback epoch 9762 lr 1e-05
713 Epoch 9764/10000
714   - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7626 - val_mean_absolute_error: 2.9235
715 epoch_end_callback epoch 9763 lr 1e-05
716 Epoch 9765/10000
717   - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
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717 20.7617 - val_mean_absolute_error: 2.9233
718 epoch_end_callback epoch 9764 lr 1e-05
719 Epoch 9766/10000
720 - 0s - loss: 0.0010 - mean_absolute_error: 0.0066 - val_loss:
    20.7612 - val_mean_absolute_error: 2.9229
721 epoch_end_callback epoch 9765 lr 1e-05
722 Epoch 9767/10000
723 - 0s - loss: 0.0011 - mean_absolute_error: 0.0078 - val_loss:
    20.7665 - val_mean_absolute_error: 2.9233
724 epoch_end_callback epoch 9766 lr 1e-05
725 Epoch 9768/10000
726 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
    20.7639 - val_mean_absolute_error: 2.9235
727 epoch_end_callback epoch 9767 lr 1e-05
728 Epoch 9769/10000
729 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
    20.7591 - val_mean_absolute_error: 2.9232
730 epoch_end_callback epoch 9768 lr 1e-05
731 Epoch 9770/10000
732 - 0s - loss: 0.0011 - mean_absolute_error: 0.0068 - val_loss:
    20.7566 - val_mean_absolute_error: 2.9228
733
734 Epoch 09770: saving model to ./model/
    model_Epoch9770_val_mean_absolute_error2.923.h5
735 epoch_end_callback epoch 9769 lr 1e-05
736 Epoch 9771/10000
737 - 0s - loss: 0.0010 - mean_absolute_error: 0.0063 - val_loss:
    20.7659 - val_mean_absolute_error: 2.9235
738 epoch_end_callback epoch 9770 lr 1e-05
739 Epoch 9772/10000
740 - 0s - loss: 0.0011 - mean_absolute_error: 0.0076 - val_loss:
    20.7611 - val_mean_absolute_error: 2.9234
741 epoch_end_callback epoch 9771 lr 1e-05
742 Epoch 9773/10000
743 - 0s - loss: 9.8794e-04 - mean_absolute_error: 0.0069 -
    val_loss: 20.7703 - val_mean_absolute_error: 2.9239
744 epoch_end_callback epoch 9772 lr 1e-05
```

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745 Epoch 9774/10000
746   - 0s - loss: 0.0011 - mean_absolute_error: 0.0071 - val_loss:
20.7895 - val_mean_absolute_error: 2.9242
747 epoch_end_callback epoch 9773 lr 1e-05
748 Epoch 9775/10000
749   - 0s - loss: 9.6021e-04 - mean_absolute_error: 0.0070 -
val_loss: 20.7512 - val_mean_absolute_error: 2.9235
750 epoch_end_callback epoch 9774 lr 1e-05
751 Epoch 9776/10000
752   - 0s - loss: 0.0011 - mean_absolute_error: 0.0064 - val_loss:
20.7635 - val_mean_absolute_error: 2.9231
753 epoch_end_callback epoch 9775 lr 1e-05
754 Epoch 9777/10000
755   - 0s - loss: 0.0010 - mean_absolute_error: 0.0059 - val_loss:
20.7595 - val_mean_absolute_error: 2.9234
756 epoch_end_callback epoch 9776 lr 1e-05
757 Epoch 9778/10000
758   - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
20.7680 - val_mean_absolute_error: 2.9241
759 epoch_end_callback epoch 9777 lr 1e-05
760 Epoch 9779/10000
761   - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
20.7551 - val_mean_absolute_error: 2.9229
762 epoch_end_callback epoch 9778 lr 1e-05
763 Epoch 9780/10000
764   - 0s - loss: 9.3976e-04 - mean_absolute_error: 0.0063 -
val_loss: 20.7640 - val_mean_absolute_error: 2.9236
765
766 Epoch 9780: saving model to ./model/
model_Epoch9780_val_mean_absolute_error2.924.h5
767 epoch_end_callback epoch 9779 lr 1e-05
768 Epoch 9781/10000
769   - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
20.7508 - val_mean_absolute_error: 2.9224
770 epoch_end_callback epoch 9780 lr 1e-05
771 Epoch 9782/10000
772   - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
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772 20.7587 - val_mean_absolute_error: 2.9235
773 epoch_end_callback epoch 9781 lr 1e-05
774 Epoch 9783/10000
775 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7650 - val_mean_absolute_error: 2.9235
776 epoch_end_callback epoch 9782 lr 1e-05
777 Epoch 9784/10000
778 - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss:
20.7500 - val_mean_absolute_error: 2.9226
779 epoch_end_callback epoch 9783 lr 1e-05
780 Epoch 9785/10000
781 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7736 - val_mean_absolute_error: 2.9240
782 epoch_end_callback epoch 9784 lr 1e-05
783 Epoch 9786/10000
784 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7562 - val_mean_absolute_error: 2.9219
785 epoch_end_callback epoch 9785 lr 1e-05
786 Epoch 9787/10000
787 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
20.7589 - val_mean_absolute_error: 2.9231
788 epoch_end_callback epoch 9786 lr 1e-05
789 Epoch 9788/10000
790 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
20.7577 - val_mean_absolute_error: 2.9249
791 epoch_end_callback epoch 9787 lr 1e-05
792 Epoch 9789/10000
793 - 0s - loss: 0.0011 - mean_absolute_error: 0.0066 - val_loss:
20.7652 - val_mean_absolute_error: 2.9235
794 epoch_end_callback epoch 9788 lr 1e-05
795 Epoch 9790/10000
796 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7640 - val_mean_absolute_error: 2.9244
797
798 Epoch 09790: saving model to ./model/
model_Epoch9790_val_mean_absolute_error2.924.h5
799 epoch_end_callback epoch 9789 lr 1e-05
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800 Epoch 9791/10000
801   - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7600 - val_mean_absolute_error: 2.9230
802 epoch_end_callback epoch 9790 lr 1e-05
803 Epoch 9792/10000
804   - 0s - loss: 0.0010 - mean_absolute_error: 0.0061 - val_loss:
20.7645 - val_mean_absolute_error: 2.9246
805 epoch_end_callback epoch 9791 lr 1e-05
806 Epoch 9793/10000
807   - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7902 - val_mean_absolute_error: 2.9251
808 epoch_end_callback epoch 9792 lr 1e-05
809 Epoch 9794/10000
810   - 0s - loss: 0.0010 - mean_absolute_error: 0.0077 - val_loss:
20.7646 - val_mean_absolute_error: 2.9240
811 epoch_end_callback epoch 9793 lr 1e-05
812 Epoch 9795/10000
813   - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
20.7634 - val_mean_absolute_error: 2.9238
814 epoch_end_callback epoch 9794 lr 1e-05
815 Epoch 9796/10000
816   - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7639 - val_mean_absolute_error: 2.9241
817 epoch_end_callback epoch 9795 lr 1e-05
818 Epoch 9797/10000
819   - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7651 - val_mean_absolute_error: 2.9238
820 epoch_end_callback epoch 9796 lr 1e-05
821 Epoch 9798/10000
822   - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7621 - val_mean_absolute_error: 2.9244
823 epoch_end_callback epoch 9797 lr 1e-05
824 Epoch 9799/10000
825   - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
20.7595 - val_mean_absolute_error: 2.9232
826 epoch_end_callback epoch 9798 lr 1e-05
827 Epoch 9800/10000
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828 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
    20.7453 - val_mean_absolute_error: 2.9221
829
830 Epoch 09800: saving model to ./model/
    model_Epoch9800_val_mean_absolute_error2.922.h5
831 epoch_end_callback epoch 9799 lr 1e-05
832 Epoch 9801/10000
833 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
    20.7555 - val_mean_absolute_error: 2.9230
834 epoch_end_callback epoch 9800 lr 1e-05
835 Epoch 9802/10000
836 - 0s - loss: 0.0011 - mean_absolute_error: 0.0067 - val_loss:
    20.7607 - val_mean_absolute_error: 2.9228
837 epoch_end_callback epoch 9801 lr 1e-05
838 Epoch 9803/10000
839 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
    20.7634 - val_mean_absolute_error: 2.9228
840 epoch_end_callback epoch 9802 lr 1e-05
841 Epoch 9804/10000
842 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
    20.7599 - val_mean_absolute_error: 2.9234
843 epoch_end_callback epoch 9803 lr 1e-05
844 Epoch 9805/10000
845 - 0s - loss: 0.0010 - mean_absolute_error: 0.0075 - val_loss:
    20.7603 - val_mean_absolute_error: 2.9237
846 epoch_end_callback epoch 9804 lr 1e-05
847 Epoch 9806/10000
848 - 0s - loss: 0.0011 - mean_absolute_error: 0.0072 - val_loss:
    20.7675 - val_mean_absolute_error: 2.9240
849 epoch_end_callback epoch 9805 lr 1e-05
850 Epoch 9807/10000
851 - 0s - loss: 0.0010 - mean_absolute_error: 0.0066 - val_loss:
    20.7650 - val_mean_absolute_error: 2.9241
852 epoch_end_callback epoch 9806 lr 1e-05
853 Epoch 9808/10000
854 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
    20.7590 - val_mean_absolute_error: 2.9231
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855 epoch_end_callback epoch 9807 lr 1e-05
856 Epoch 9809/10000
857 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7655 - val_mean_absolute_error: 2.9236
858 epoch_end_callback epoch 9808 lr 1e-05
859 Epoch 9810/10000
860 - 0s - loss: 0.0010 - mean_absolute_error: 0.0063 - val_loss:
20.7549 - val_mean_absolute_error: 2.9237
861
862 Epoch 09810: saving model to ./model/
model_Epoch9810_val_mean_absolute_error2.924.h5
863 epoch_end_callback epoch 9809 lr 1e-05
864 Epoch 9811/10000
865 - 0s - loss: 0.0011 - mean_absolute_error: 0.0070 - val_loss:
20.7621 - val_mean_absolute_error: 2.9233
866 epoch_end_callback epoch 9810 lr 1e-05
867 Epoch 9812/10000
868 - 0s - loss: 0.0011 - mean_absolute_error: 0.0067 - val_loss:
20.7628 - val_mean_absolute_error: 2.9237
869 epoch_end_callback epoch 9811 lr 1e-05
870 Epoch 9813/10000
871 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
20.7567 - val_mean_absolute_error: 2.9230
872 epoch_end_callback epoch 9812 lr 1e-05
873 Epoch 9814/10000
874 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
20.7517 - val_mean_absolute_error: 2.9240
875 epoch_end_callback epoch 9813 lr 1e-05
876 Epoch 9815/10000
877 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7637 - val_mean_absolute_error: 2.9244
878 epoch_end_callback epoch 9814 lr 1e-05
879 Epoch 9816/10000
880 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7762 - val_mean_absolute_error: 2.9234
881 epoch_end_callback epoch 9815 lr 1e-05
882 Epoch 9817/10000
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883 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
    20.7680 - val_mean_absolute_error: 2.9243
884 epoch_end_callback epoch 9816 lr 1e-05
885 Epoch 9818/10000
886 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
    20.7598 - val_mean_absolute_error: 2.9236
887 epoch_end_callback epoch 9817 lr 1e-05
888 Epoch 9819/10000
889 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
    20.7694 - val_mean_absolute_error: 2.9238
890 epoch_end_callback epoch 9818 lr 1e-05
891 Epoch 9820/10000
892 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
    20.7644 - val_mean_absolute_error: 2.9241
893
894 Epoch 09820: saving model to ./model/
    model_Epoch9820_val_mean_absolute_error2.924.h5
895 epoch_end_callback epoch 9819 lr 1e-05
896 Epoch 9821/10000
897 - 0s - loss: 9.8872e-04 - mean_absolute_error: 0.0072 -
    val_loss: 20.7470 - val_mean_absolute_error: 2.9229
898 epoch_end_callback epoch 9820 lr 1e-05
899 Epoch 9822/10000
900 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
    20.7656 - val_mean_absolute_error: 2.9233
901 epoch_end_callback epoch 9821 lr 1e-05
902 Epoch 9823/10000
903 - 0s - loss: 0.0011 - mean_absolute_error: 0.0069 - val_loss:
    20.7665 - val_mean_absolute_error: 2.9239
904 epoch_end_callback epoch 9822 lr 1e-05
905 Epoch 9824/10000
906 - 0s - loss: 0.0010 - mean_absolute_error: 0.0066 - val_loss:
    20.7687 - val_mean_absolute_error: 2.9234
907 epoch_end_callback epoch 9823 lr 1e-05
908 Epoch 9825/10000
909 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
    20.7581 - val_mean_absolute_error: 2.9228
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910 epoch_end_callback epoch 9824 lr 1e-05
911 Epoch 9826/10000
912   - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
    20.7637 - val_mean_absolute_error: 2.9235
913 epoch_end_callback epoch 9825 lr 1e-05
914 Epoch 9827/10000
915   - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
    20.7593 - val_mean_absolute_error: 2.9234
916 epoch_end_callback epoch 9826 lr 1e-05
917 Epoch 9828/10000
918   - 0s - loss: 0.0010 - mean_absolute_error: 0.0064 - val_loss:
    20.7565 - val_mean_absolute_error: 2.9229
919 epoch_end_callback epoch 9827 lr 1e-05
920 Epoch 9829/10000
921   - 0s - loss: 0.0010 - mean_absolute_error: 0.0081 - val_loss:
    20.7565 - val_mean_absolute_error: 2.9231
922 epoch_end_callback epoch 9828 lr 1e-05
923 Epoch 9830/10000
924   - 0s - loss: 0.0010 - mean_absolute_error: 0.0075 - val_loss:
    20.7637 - val_mean_absolute_error: 2.9234
925
926 Epoch 09830: saving model to ./model/
    model_Epoch9830_val_mean_absolute_error2.923.h5
927 epoch_end_callback epoch 9829 lr 1e-05
928 Epoch 9831/10000
929   - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
    20.7659 - val_mean_absolute_error: 2.9233
930 epoch_end_callback epoch 9830 lr 1e-05
931 Epoch 9832/10000
932   - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
    20.7638 - val_mean_absolute_error: 2.9246
933 epoch_end_callback epoch 9831 lr 1e-05
934 Epoch 9833/10000
935   - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
    20.7615 - val_mean_absolute_error: 2.9231
936 epoch_end_callback epoch 9832 lr 1e-05
937 Epoch 9834/10000
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938 - 0s - loss: 0.0011 - mean_absolute_error: 0.0066 - val_loss:
    20.7579 - val_mean_absolute_error: 2.9238
939 epoch_end_callback epoch 9833 lr 1e-05
940 Epoch 9835/10000
941 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
    20.7678 - val_mean_absolute_error: 2.9241
942 epoch_end_callback epoch 9834 lr 1e-05
943 Epoch 9836/10000
944 - 0s - loss: 0.0011 - mean_absolute_error: 0.0071 - val_loss:
    20.7588 - val_mean_absolute_error: 2.9235
945 epoch_end_callback epoch 9835 lr 1e-05
946 Epoch 9837/10000
947 - 0s - loss: 0.0010 - mean_absolute_error: 0.0068 - val_loss:
    20.7620 - val_mean_absolute_error: 2.9233
948 epoch_end_callback epoch 9836 lr 1e-05
949 Epoch 9838/10000
950 - 0s - loss: 9.9460e-04 - mean_absolute_error: 0.0058 -
    val_loss: 20.7725 - val_mean_absolute_error: 2.9224
951 epoch_end_callback epoch 9837 lr 1e-05
952 Epoch 9839/10000
953 - 0s - loss: 0.0010 - mean_absolute_error: 0.0075 - val_loss:
    20.7588 - val_mean_absolute_error: 2.9232
954 epoch_end_callback epoch 9838 lr 1e-05
955 Epoch 9840/10000
956 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
    20.7640 - val_mean_absolute_error: 2.9244
957
958 Epoch 09840: saving model to ./model/
    model_Epoch9840_val_mean_absolute_error2.924.h5
959 epoch_end_callback epoch 9839 lr 1e-05
960 Epoch 9841/10000
961 - 0s - loss: 0.0011 - mean_absolute_error: 0.0073 - val_loss:
    20.7658 - val_mean_absolute_error: 2.9241
962 epoch_end_callback epoch 9840 lr 1e-05
963 Epoch 9842/10000
964 - 0s - loss: 0.0010 - mean_absolute_error: 0.0065 - val_loss:
    20.7671 - val_mean_absolute_error: 2.9243

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965 epoch_end_callback epoch 9841 lr 1e-05
966 Epoch 9843/10000
967 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7778 - val_mean_absolute_error: 2.9251
968 epoch_end_callback epoch 9842 lr 1e-05
969 Epoch 9844/10000
970 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
20.7684 - val_mean_absolute_error: 2.9238
971 epoch_end_callback epoch 9843 lr 1e-05
972 Epoch 9845/10000
973 - 0s - loss: 0.0011 - mean_absolute_error: 0.0066 - val_loss:
20.7607 - val_mean_absolute_error: 2.9236
974 epoch_end_callback epoch 9844 lr 1e-05
975 Epoch 9846/10000
976 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7725 - val_mean_absolute_error: 2.9240
977 epoch_end_callback epoch 9845 lr 1e-05
978 Epoch 9847/10000
979 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
20.7631 - val_mean_absolute_error: 2.9236
980 epoch_end_callback epoch 9846 lr 1e-05
981 Epoch 9848/10000
982 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7628 - val_mean_absolute_error: 2.9235
983 epoch_end_callback epoch 9847 lr 1e-05
984 Epoch 9849/10000
985 - 0s - loss: 0.0010 - mean_absolute_error: 0.0064 - val_loss:
20.7479 - val_mean_absolute_error: 2.9226
986 epoch_end_callback epoch 9848 lr 1e-05
987 Epoch 9850/10000
988 - 0s - loss: 9.9232e-04 - mean_absolute_error: 0.0067 -
val_loss: 20.7649 - val_mean_absolute_error: 2.9251
989
990 Epoch 09850: saving model to ./model/
model_Epoch9850_val_mean_absolute_error2.925.h5
991 epoch_end_callback epoch 9849 lr 1e-05
992 Epoch 9851/10000
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993 - 0s - loss: 0.0010 - mean_absolute_error: 0.0083 - val_loss:
20.7622 - val_mean_absolute_error: 2.9230
994 epoch_end_callback epoch 9850 lr 1e-05
995 Epoch 9852/10000
996 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
20.7632 - val_mean_absolute_error: 2.9235
997 epoch_end_callback epoch 9851 lr 1e-05
998 Epoch 9853/10000
999 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7561 - val_mean_absolute_error: 2.9229
1000 epoch_end_callback epoch 9852 lr 1e-05
1001 Epoch 9854/10000
1002 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7689 - val_mean_absolute_error: 2.9239
1003 epoch_end_callback epoch 9853 lr 1e-05
1004 Epoch 9855/10000
1005 - 0s - loss: 0.0011 - mean_absolute_error: 0.0074 - val_loss:
20.7578 - val_mean_absolute_error: 2.9237
1006 epoch_end_callback epoch 9854 lr 1e-05
1007 Epoch 9856/10000
1008 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7644 - val_mean_absolute_error: 2.9241
1009 epoch_end_callback epoch 9855 lr 1e-05
1010 Epoch 9857/10000
1011 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7637 - val_mean_absolute_error: 2.9240
1012 epoch_end_callback epoch 9856 lr 1e-05
1013 Epoch 9858/10000
1014 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7702 - val_mean_absolute_error: 2.9231
1015 epoch_end_callback epoch 9857 lr 1e-05
1016 Epoch 9859/10000
1017 - 0s - loss: 0.0010 - mean_absolute_error: 0.0064 - val_loss:
20.7662 - val_mean_absolute_error: 2.9239
1018 epoch_end_callback epoch 9858 lr 1e-05
1019 Epoch 9860/10000
1020 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
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1020 20.7681 - val_mean_absolute_error: 2.9241
1021
1022 Epoch 09860: saving model to ./model/
model_Epoch9860_val_mean_absolute_error2.924.h5
1023 epoch_end_callback epoch 9859 lr 1e-05
1024 Epoch 9861/10000
1025 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
20.7613 - val_mean_absolute_error: 2.9229
1026 epoch_end_callback epoch 9860 lr 1e-05
1027 Epoch 9862/10000
1028 - 0s - loss: 0.0010 - mean_absolute_error: 0.0077 - val_loss:
20.7644 - val_mean_absolute_error: 2.9238
1029 epoch_end_callback epoch 9861 lr 1e-05
1030 Epoch 9863/10000
1031 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7677 - val_mean_absolute_error: 2.9234
1032 epoch_end_callback epoch 9862 lr 1e-05
1033 Epoch 9864/10000
1034 - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
20.7580 - val_mean_absolute_error: 2.9234
1035 epoch_end_callback epoch 9863 lr 1e-05
1036 Epoch 9865/10000
1037 - 0s - loss: 0.0010 - mean_absolute_error: 0.0064 - val_loss:
20.7671 - val_mean_absolute_error: 2.9241
1038 epoch_end_callback epoch 9864 lr 1e-05
1039 Epoch 9866/10000
1040 - 0s - loss: 0.0010 - mean_absolute_error: 0.0068 - val_loss:
20.7645 - val_mean_absolute_error: 2.9227
1041 epoch_end_callback epoch 9865 lr 1e-05
1042 Epoch 9867/10000
1043 - 0s - loss: 9.2652e-04 - mean_absolute_error: 0.0063 -
val_loss: 20.7674 - val_mean_absolute_error: 2.9249
1044 epoch_end_callback epoch 9866 lr 1e-05
1045 Epoch 9868/10000
1046 - 0s - loss: 0.0011 - mean_absolute_error: 0.0082 - val_loss:
20.7713 - val_mean_absolute_error: 2.9239
1047 epoch_end_callback epoch 9867 lr 1e-05

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1048 Epoch 9869/10000
1049   - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7602 - val_mean_absolute_error: 2.9254
1050 epoch_end_callback epoch 9868 lr 1e-05
1051 Epoch 9870/10000
1052   - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7695 - val_mean_absolute_error: 2.9234
1053
1054 Epoch 9870: saving model to ./model/
model_Epoch9870_val_mean_absolute_error2.923.h5
1055 epoch_end_callback epoch 9869 lr 1e-05
1056 Epoch 9871/10000
1057   - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7700 - val_mean_absolute_error: 2.9232
1058 epoch_end_callback epoch 9870 lr 1e-05
1059 Epoch 9872/10000
1060   - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7628 - val_mean_absolute_error: 2.9242
1061 epoch_end_callback epoch 9871 lr 1e-05
1062 Epoch 9873/10000
1063   - 0s - loss: 0.0010 - mean_absolute_error: 0.0066 - val_loss:
20.7671 - val_mean_absolute_error: 2.9240
1064 epoch_end_callback epoch 9872 lr 1e-05
1065 Epoch 9874/10000
1066   - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
20.7601 - val_mean_absolute_error: 2.9233
1067 epoch_end_callback epoch 9873 lr 1e-05
1068 Epoch 9875/10000
1069   - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7683 - val_mean_absolute_error: 2.9238
1070 epoch_end_callback epoch 9874 lr 1e-05
1071 Epoch 9876/10000
1072   - 0s - loss: 0.0011 - mean_absolute_error: 0.0067 - val_loss:
20.7602 - val_mean_absolute_error: 2.9239
1073 epoch_end_callback epoch 9875 lr 1e-05
1074 Epoch 9877/10000
1075   - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
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1075 20.7634 - val_mean_absolute_error: 2.9236
1076 epoch_end_callback epoch 9876 lr 1e-05
1077 Epoch 9878/10000
1078 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7505 - val_mean_absolute_error: 2.9234
1079 epoch_end_callback epoch 9877 lr 1e-05
1080 Epoch 9879/10000
1081 - 0s - loss: 0.0010 - mean_absolute_error: 0.0077 - val_loss:
20.7679 - val_mean_absolute_error: 2.9237
1082 epoch_end_callback epoch 9878 lr 1e-05
1083 Epoch 9880/10000
1084 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7738 - val_mean_absolute_error: 2.9243
1085
1086 Epoch 09880: saving model to ./model/
model_Epoch9880_val_mean_absolute_error2.924.h5
1087 epoch_end_callback epoch 9879 lr 1e-05
1088 Epoch 9881/10000
1089 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
20.7690 - val_mean_absolute_error: 2.9236
1090 epoch_end_callback epoch 9880 lr 1e-05
1091 Epoch 9882/10000
1092 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7651 - val_mean_absolute_error: 2.9233
1093 epoch_end_callback epoch 9881 lr 1e-05
1094 Epoch 9883/10000
1095 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7649 - val_mean_absolute_error: 2.9227
1096 epoch_end_callback epoch 9882 lr 1e-05
1097 Epoch 9884/10000
1098 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
20.7561 - val_mean_absolute_error: 2.9236
1099 epoch_end_callback epoch 9883 lr 1e-05
1100 Epoch 9885/10000
1101 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7657 - val_mean_absolute_error: 2.9232
1102 epoch_end_callback epoch 9884 lr 1e-05
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1103 Epoch 9886/10000
1104   - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
20.7530 - val_mean_absolute_error: 2.9227
1105 epoch_end_callback epoch 9885 lr 1e-05
1106 Epoch 9887/10000
1107   - 0s - loss: 0.0010 - mean_absolute_error: 0.0065 - val_loss:
20.7729 - val_mean_absolute_error: 2.9238
1108 epoch_end_callback epoch 9886 lr 1e-05
1109 Epoch 9888/10000
1110   - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7686 - val_mean_absolute_error: 2.9240
1111 epoch_end_callback epoch 9887 lr 1e-05
1112 Epoch 9889/10000
1113   - 0s - loss: 9.9842e-04 - mean_absolute_error: 0.0077 -
val_loss: 20.7662 - val_mean_absolute_error: 2.9241
1114 epoch_end_callback epoch 9888 lr 1e-05
1115 Epoch 9890/10000
1116   - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7591 - val_mean_absolute_error: 2.9228
1117
1118 Epoch 9890: saving model to ./model/
model_Epoch9890_val_mean_absolute_error2.923.h5
1119 epoch_end_callback epoch 9889 lr 1e-05
1120 Epoch 9891/10000
1121   - 0s - loss: 0.0010 - mean_absolute_error: 0.0068 - val_loss:
20.7610 - val_mean_absolute_error: 2.9231
1122 epoch_end_callback epoch 9890 lr 1e-05
1123 Epoch 9892/10000
1124   - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7573 - val_mean_absolute_error: 2.9228
1125 epoch_end_callback epoch 9891 lr 1e-05
1126 Epoch 9893/10000
1127   - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7596 - val_mean_absolute_error: 2.9226
1128 epoch_end_callback epoch 9892 lr 1e-05
1129 Epoch 9894/10000
1130   - 0s - loss: 9.1413e-04 - mean_absolute_error: 0.0059 -
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1130 val_loss: 20.7750 - val_mean_absolute_error: 2.9239
1131 epoch_end_callback epoch 9893 lr 1e-05
1132 Epoch 9895/10000
1133 - 0s - loss: 9.9954e-04 - mean_absolute_error: 0.0078 -
val_loss: 20.7611 - val_mean_absolute_error: 2.9232
1134 epoch_end_callback epoch 9894 lr 1e-05
1135 Epoch 9896/10000
1136 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
20.7790 - val_mean_absolute_error: 2.9245
1137 epoch_end_callback epoch 9895 lr 1e-05
1138 Epoch 9897/10000
1139 - 0s - loss: 9.9685e-04 - mean_absolute_error: 0.0068 -
val_loss: 20.7640 - val_mean_absolute_error: 2.9236
1140 epoch_end_callback epoch 9896 lr 1e-05
1141 Epoch 9898/10000
1142 - 0s - loss: 0.0011 - mean_absolute_error: 0.0073 - val_loss:
20.7439 - val_mean_absolute_error: 2.9226
1143 epoch_end_callback epoch 9897 lr 1e-05
1144 Epoch 9899/10000
1145 - 0s - loss: 9.7419e-04 - mean_absolute_error: 0.0071 -
val_loss: 20.7720 - val_mean_absolute_error: 2.9229
1146 epoch_end_callback epoch 9898 lr 1e-05
1147 Epoch 9900/10000
1148 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
20.7705 - val_mean_absolute_error: 2.9238
1149
1150 Epoch 09900: saving model to ./model/
model_Epoch9900_val_mean_absolute_error2.924.h5
1151 epoch_end_callback epoch 9899 lr 1e-05
1152 Epoch 9901/10000
1153 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
20.7645 - val_mean_absolute_error: 2.9234
1154 epoch_end_callback epoch 9900 lr 1e-05
1155 Epoch 9902/10000
1156 - 0s - loss: 0.0011 - mean_absolute_error: 0.0068 - val_loss:
20.7716 - val_mean_absolute_error: 2.9241
1157 epoch_end_callback epoch 9901 lr 1e-05
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1158 Epoch 9903/10000
1159   - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7727 - val_mean_absolute_error: 2.9248
1160 epoch_end_callback epoch 9902 lr 1e-05
1161 Epoch 9904/10000
1162   - 0s - loss: 0.0010 - mean_absolute_error: 0.0064 - val_loss:
20.7435 - val_mean_absolute_error: 2.9221
1163 epoch_end_callback epoch 9903 lr 1e-05
1164 Epoch 9905/10000
1165   - 0s - loss: 9.8987e-04 - mean_absolute_error: 0.0074 -
val_loss: 20.7598 - val_mean_absolute_error: 2.9227
1166 epoch_end_callback epoch 9904 lr 1e-05
1167 Epoch 9906/10000
1168   - 0s - loss: 9.8214e-04 - mean_absolute_error: 0.0068 -
val_loss: 20.7641 - val_mean_absolute_error: 2.9234
1169 epoch_end_callback epoch 9905 lr 1e-05
1170 Epoch 9907/10000
1171   - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7654 - val_mean_absolute_error: 2.9226
1172 epoch_end_callback epoch 9906 lr 1e-05
1173 Epoch 9908/10000
1174   - 0s - loss: 9.9826e-04 - mean_absolute_error: 0.0066 -
val_loss: 20.7764 - val_mean_absolute_error: 2.9234
1175 epoch_end_callback epoch 9907 lr 1e-05
1176 Epoch 9909/10000
1177   - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7631 - val_mean_absolute_error: 2.9231
1178 epoch_end_callback epoch 9908 lr 1e-05
1179 Epoch 9910/10000
1180   - 0s - loss: 0.0010 - mean_absolute_error: 0.0066 - val_loss:
20.7729 - val_mean_absolute_error: 2.9237
1181
1182 Epoch 09910: saving model to ./model/
model_Epoch9910_val_mean_absolute_error2.924.h5
1183 epoch_end_callback epoch 9909 lr 1e-05
1184 Epoch 9911/10000
1185   - 0s - loss: 0.0010 - mean_absolute_error: 0.0064 - val_loss:
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1185 20.7665 - val_mean_absolute_error: 2.9231
1186 epoch_end_callback epoch 9910 lr 1e-05
1187 Epoch 9912/10000
1188 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7627 - val_mean_absolute_error: 2.9238
1189 epoch_end_callback epoch 9911 lr 1e-05
1190 Epoch 9913/10000
1191 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
20.7668 - val_mean_absolute_error: 2.9237
1192 epoch_end_callback epoch 9912 lr 1e-05
1193 Epoch 9914/10000
1194 - 0s - loss: 0.0010 - mean_absolute_error: 0.0065 - val_loss:
20.7680 - val_mean_absolute_error: 2.9245
1195 epoch_end_callback epoch 9913 lr 1e-05
1196 Epoch 9915/10000
1197 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7603 - val_mean_absolute_error: 2.9233
1198 epoch_end_callback epoch 9914 lr 1e-05
1199 Epoch 9916/10000
1200 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7583 - val_mean_absolute_error: 2.9230
1201 epoch_end_callback epoch 9915 lr 1e-05
1202 Epoch 9917/10000
1203 - 0s - loss: 0.0010 - mean_absolute_error: 0.0068 - val_loss:
20.7661 - val_mean_absolute_error: 2.9225
1204 epoch_end_callback epoch 9916 lr 1e-05
1205 Epoch 9918/10000
1206 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
20.7739 - val_mean_absolute_error: 2.9233
1207 epoch_end_callback epoch 9917 lr 1e-05
1208 Epoch 9919/10000
1209 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
20.7502 - val_mean_absolute_error: 2.9234
1210 epoch_end_callback epoch 9918 lr 1e-05
1211 Epoch 9920/10000
1212 - 0s - loss: 9.9855e-04 - mean_absolute_error: 0.0072 -
val_loss: 20.7590 - val_mean_absolute_error: 2.9221
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1213
1214 Epoch 09920: saving model to ./model/
model_Epoch9920_val_mean_absolute_error2.922.h5
1215 epoch_end_callback epoch 9919 lr 1e-05
1216 Epoch 9921/10000
1217 - 0s - loss: 0.0010 - mean_absolute_error: 0.0081 - val_loss:
20.7699 - val_mean_absolute_error: 2.9233
1218 epoch_end_callback epoch 9920 lr 1e-05
1219 Epoch 9922/10000
1220 - 0s - loss: 0.0010 - mean_absolute_error: 0.0060 - val_loss:
20.7684 - val_mean_absolute_error: 2.9241
1221 epoch_end_callback epoch 9921 lr 1e-05
1222 Epoch 9923/10000
1223 - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
20.7750 - val_mean_absolute_error: 2.9234
1224 epoch_end_callback epoch 9922 lr 1e-05
1225 Epoch 9924/10000
1226 - 0s - loss: 0.0010 - mean_absolute_error: 0.0065 - val_loss:
20.7846 - val_mean_absolute_error: 2.9246
1227 epoch_end_callback epoch 9923 lr 1e-05
1228 Epoch 9925/10000
1229 - 0s - loss: 9.6169e-04 - mean_absolute_error: 0.0075 -
val_loss: 20.7614 - val_mean_absolute_error: 2.9235
1230 epoch_end_callback epoch 9924 lr 1e-05
1231 Epoch 9926/10000
1232 - 0s - loss: 9.8259e-04 - mean_absolute_error: 0.0063 -
val_loss: 20.7586 - val_mean_absolute_error: 2.9242
1233 epoch_end_callback epoch 9925 lr 1e-05
1234 Epoch 9927/10000
1235 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
20.7592 - val_mean_absolute_error: 2.9234
1236 epoch_end_callback epoch 9926 lr 1e-05
1237 Epoch 9928/10000
1238 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7620 - val_mean_absolute_error: 2.9230
1239 epoch_end_callback epoch 9927 lr 1e-05
1240 Epoch 9929/10000
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1241 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
1242 20.7606 - val_mean_absolute_error: 2.9235
1243 epoch_end_callback epoch 9928 lr 1e-05
1244 Epoch 9930/10000
1245 - 0s - loss: 0.0010 - mean_absolute_error: 0.0068 - val_loss:
1246 20.7605 - val_mean_absolute_error: 2.9234
1247 Epoch 09930: saving model to ./model/
1248 model_Epoch9930_val_mean_absolute_error2.923.h5
1249 epoch_end_callback epoch 9929 lr 1e-05
1250 Epoch 9931/10000
1251 - 0s - loss: 0.0010 - mean_absolute_error: 0.0068 - val_loss:
1252 20.7699 - val_mean_absolute_error: 2.9235
1253 epoch_end_callback epoch 9930 lr 1e-05
1254 Epoch 9932/10000
1255 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
1256 20.7681 - val_mean_absolute_error: 2.9238
1257 epoch_end_callback epoch 9931 lr 1e-05
1258 Epoch 9933/10000
1259 - 0s - loss: 9.9637e-04 - mean_absolute_error: 0.0064 -
1260 val_loss: 20.7505 - val_mean_absolute_error: 2.9237
1261 epoch_end_callback epoch 9932 lr 1e-05
1262 Epoch 9934/10000
1263 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
1264 20.7667 - val_mean_absolute_error: 2.9241
1265 epoch_end_callback epoch 9933 lr 1e-05
1266 Epoch 9935/10000
1267 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
1268 20.7596 - val_mean_absolute_error: 2.9234
1269 epoch_end_callback epoch 9934 lr 1e-05
1270 Epoch 9936/10000
1271 - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
1272 20.7638 - val_mean_absolute_error: 2.9238
1273 epoch_end_callback epoch 9935 lr 1e-05
1274 Epoch 9937/10000
1275 - 0s - loss: 0.0010 - mean_absolute_error: 0.0065 - val_loss:
1276 20.7882 - val_mean_absolute_error: 2.9252
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1268 epoch_end_callback epoch 9936 lr 1e-05
1269 Epoch 9938/10000
1270 - 0s - loss: 9.5734e-04 - mean_absolute_error: 0.0073 -
    val_loss: 20.7649 - val_mean_absolute_error: 2.9238
1271 epoch_end_callback epoch 9937 lr 1e-05
1272 Epoch 9939/10000
1273 - 0s - loss: 9.6955e-04 - mean_absolute_error: 0.0063 -
    val_loss: 20.7679 - val_mean_absolute_error: 2.9244
1274 epoch_end_callback epoch 9938 lr 1e-05
1275 Epoch 9940/10000
1276 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
    20.7637 - val_mean_absolute_error: 2.9234
1277
1278 Epoch 9940: saving model to ./model/
    model_Epoch9940_val_mean_absolute_error2.923.h5
1279 epoch_end_callback epoch 9939 lr 1e-05
1280 Epoch 9941/10000
1281 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
    20.7672 - val_mean_absolute_error: 2.9235
1282 epoch_end_callback epoch 9940 lr 1e-05
1283 Epoch 9942/10000
1284 - 0s - loss: 0.0011 - mean_absolute_error: 0.0067 - val_loss:
    20.7634 - val_mean_absolute_error: 2.9234
1285 epoch_end_callback epoch 9941 lr 1e-05
1286 Epoch 9943/10000
1287 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
    20.7654 - val_mean_absolute_error: 2.9239
1288 epoch_end_callback epoch 9942 lr 1e-05
1289 Epoch 9944/10000
1290 - 0s - loss: 9.9650e-04 - mean_absolute_error: 0.0070 -
    val_loss: 20.7686 - val_mean_absolute_error: 2.9253
1291 epoch_end_callback epoch 9943 lr 1e-05
1292 Epoch 9945/10000
1293 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
    20.7638 - val_mean_absolute_error: 2.9233
1294 epoch_end_callback epoch 9944 lr 1e-05
1295 Epoch 9946/10000
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1296 - 0s - loss: 0.0010 - mean_absolute_error: 0.0073 - val_loss:
1297 20.7623 - val_mean_absolute_error: 2.9229
1298 epoch_end_callback epoch 9945 lr 1e-05
1299 Epoch 9947/10000
1299 - 0s - loss: 0.0010 - mean_absolute_error: 0.0074 - val_loss:
1300 20.7603 - val_mean_absolute_error: 2.9230
1301 epoch_end_callback epoch 9946 lr 1e-05
1302 Epoch 9948/10000
1302 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
1303 20.7565 - val_mean_absolute_error: 2.9233
1304 epoch_end_callback epoch 9947 lr 1e-05
1305 Epoch 9949/10000
1305 - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
1306 20.7643 - val_mean_absolute_error: 2.9234
1307 epoch_end_callback epoch 9948 lr 1e-05
1308 Epoch 9950/10000
1308 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
1309 20.7548 - val_mean_absolute_error: 2.9225
1310 Epoch 09950: saving model to ./model/
1311 model_Epoch9950_val_mean_absolute_error2.922.h5
1312 epoch_end_callback epoch 9949 lr 1e-05
1313 Epoch 9951/10000
1313 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
1314 20.7605 - val_mean_absolute_error: 2.9229
1315 epoch_end_callback epoch 9950 lr 1e-05
1316 Epoch 9952/10000
1316 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
1317 20.7619 - val_mean_absolute_error: 2.9233
1318 epoch_end_callback epoch 9951 lr 1e-05
1319 Epoch 9953/10000
1319 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
1320 20.7622 - val_mean_absolute_error: 2.9234
1321 epoch_end_callback epoch 9952 lr 1e-05
1322 Epoch 9954/10000
1322 - 0s - loss: 9.8876e-04 - mean_absolute_error: 0.0075 -
1323 val_loss: 20.7663 - val_mean_absolute_error: 2.9243
```



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1323 epoch_end_callback epoch 9953 lr 1e-05
1324 Epoch 9955/10000
1325 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7745 - val_mean_absolute_error: 2.9246
1326 epoch_end_callback epoch 9954 lr 1e-05
1327 Epoch 9956/10000
1328 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
20.7612 - val_mean_absolute_error: 2.9232
1329 epoch_end_callback epoch 9955 lr 1e-05
1330 Epoch 9957/10000
1331 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7696 - val_mean_absolute_error: 2.9236
1332 epoch_end_callback epoch 9956 lr 1e-05
1333 Epoch 9958/10000
1334 - 0s - loss: 9.9202e-04 - mean_absolute_error: 0.0067 -
val_loss: 20.7761 - val_mean_absolute_error: 2.9236
1335 epoch_end_callback epoch 9957 lr 1e-05
1336 Epoch 9959/10000
1337 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7567 - val_mean_absolute_error: 2.9236
1338 epoch_end_callback epoch 9958 lr 1e-05
1339 Epoch 9960/10000
1340 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7640 - val_mean_absolute_error: 2.9225
1341
1342 Epoch 09960: saving model to ./model/
model_Epoch9960_val_mean_absolute_error2.923.h5
1343 epoch_end_callback epoch 9959 lr 1e-05
1344 Epoch 9961/10000
1345 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7593 - val_mean_absolute_error: 2.9231
1346 epoch_end_callback epoch 9960 lr 1e-05
1347 Epoch 9962/10000
1348 - 0s - loss: 0.0010 - mean_absolute_error: 0.0075 - val_loss:
20.7590 - val_mean_absolute_error: 2.9230
1349 epoch_end_callback epoch 9961 lr 1e-05
1350 Epoch 9963/10000
```

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1351 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
1352 20.7647 - val_mean_absolute_error: 2.9243
1353 epoch_end_callback epoch 9962 lr 1e-05
1354 Epoch 9964/10000
1355 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
1356 20.7761 - val_mean_absolute_error: 2.9248
1357 epoch_end_callback epoch 9963 lr 1e-05
1358 Epoch 9965/10000
1359 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
1360 20.7660 - val_mean_absolute_error: 2.9238
1361 epoch_end_callback epoch 9964 lr 1e-05
1362 Epoch 9966/10000
1363 - 0s - loss: 9.1354e-04 - mean_absolute_error: 0.0062 -
1364 val_loss: 20.7752 - val_mean_absolute_error: 2.9240
1365 epoch_end_callback epoch 9965 lr 1e-05
1366 Epoch 9967/10000
1367 - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
1368 20.7578 - val_mean_absolute_error: 2.9237
1369 epoch_end_callback epoch 9966 lr 1e-05
1370 Epoch 9968/10000
1371 - 0s - loss: 0.0010 - mean_absolute_error: 0.0066 - val_loss:
1372 20.7704 - val_mean_absolute_error: 2.9230
1373 epoch_end_callback epoch 9967 lr 1e-05
1374 Epoch 9969/10000
1375 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
1376 20.7673 - val_mean_absolute_error: 2.9240
1377 epoch_end_callback epoch 9968 lr 1e-05
1378 Epoch 9970/10000
1379 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
1380 20.7641 - val_mean_absolute_error: 2.9234
1381
1382 Epoch 9970: saving model to ./model/
1383 model_Epoch9970_val_mean_absolute_error2.923.h5
1384 epoch_end_callback epoch 9969 lr 1e-05
1385 Epoch 9971/10000
1386 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
1387 20.7747 - val_mean_absolute_error: 2.9238
```

```
1378 epoch_end_callback epoch 9970 lr 1e-05
1379 Epoch 9972/10000
1380 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7621 - val_mean_absolute_error: 2.9242
1381 epoch_end_callback epoch 9971 lr 1e-05
1382 Epoch 9973/10000
1383 - 0s - loss: 0.0010 - mean_absolute_error: 0.0060 - val_loss:
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1384 epoch_end_callback epoch 9972 lr 1e-05
1385 Epoch 9974/10000
1386 - 0s - loss: 0.0010 - mean_absolute_error: 0.0065 - val_loss:
20.7635 - val_mean_absolute_error: 2.9236
1387 epoch_end_callback epoch 9973 lr 1e-05
1388 Epoch 9975/10000
1389 - 0s - loss: 0.0011 - mean_absolute_error: 0.0064 - val_loss:
20.7612 - val_mean_absolute_error: 2.9230
1390 epoch_end_callback epoch 9974 lr 1e-05
1391 Epoch 9976/10000
1392 - 0s - loss: 9.9847e-04 - mean_absolute_error: 0.0071 -
val_loss: 20.7787 - val_mean_absolute_error: 2.9238
1393 epoch_end_callback epoch 9975 lr 1e-05
1394 Epoch 9977/10000
1395 - 0s - loss: 9.9778e-04 - mean_absolute_error: 0.0071 -
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1396 epoch_end_callback epoch 9976 lr 1e-05
1397 Epoch 9978/10000
1398 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7688 - val_mean_absolute_error: 2.9238
1399 epoch_end_callback epoch 9977 lr 1e-05
1400 Epoch 9979/10000
1401 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7607 - val_mean_absolute_error: 2.9241
1402 epoch_end_callback epoch 9978 lr 1e-05
1403 Epoch 9980/10000
1404 - 0s - loss: 9.7404e-04 - mean_absolute_error: 0.0066 -
val_loss: 20.7576 - val_mean_absolute_error: 2.9228
1405
```

```
1406 Epoch 09980: saving model to ./model/
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1407 epoch_end_callback epoch 9979 lr 1e-05
1408 Epoch 9981/10000
1409 - 0s - loss: 0.0010 - mean_absolute_error: 0.0069 - val_loss:
20.7630 - val_mean_absolute_error: 2.9236
1410 epoch_end_callback epoch 9980 lr 1e-05
1411 Epoch 9982/10000
1412 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7690 - val_mean_absolute_error: 2.9235
1413 epoch_end_callback epoch 9981 lr 1e-05
1414 Epoch 9983/10000
1415 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
20.7618 - val_mean_absolute_error: 2.9228
1416 epoch_end_callback epoch 9982 lr 1e-05
1417 Epoch 9984/10000
1418 - 0s - loss: 9.9408e-04 - mean_absolute_error: 0.0078 -
val_loss: 20.7620 - val_mean_absolute_error: 2.9234
1419 epoch_end_callback epoch 9983 lr 1e-05
1420 Epoch 9985/10000
1421 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7597 - val_mean_absolute_error: 2.9237
1422 epoch_end_callback epoch 9984 lr 1e-05
1423 Epoch 9986/10000
1424 - 0s - loss: 9.8564e-04 - mean_absolute_error: 0.0072 -
val_loss: 20.7685 - val_mean_absolute_error: 2.9237
1425 epoch_end_callback epoch 9985 lr 1e-05
1426 Epoch 9987/10000
1427 - 0s - loss: 0.0011 - mean_absolute_error: 0.0063 - val_loss:
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1428 epoch_end_callback epoch 9986 lr 1e-05
1429 Epoch 9988/10000
1430 - 0s - loss: 9.7354e-04 - mean_absolute_error: 0.0062 -
val_loss: 20.7700 - val_mean_absolute_error: 2.9228
1431 epoch_end_callback epoch 9987 lr 1e-05
1432 Epoch 9989/10000
1433 - 0s - loss: 0.0010 - mean_absolute_error: 0.0076 - val_loss:
```

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1433 20.7626 - val_mean_absolute_error: 2.9236
1434 epoch_end_callback epoch 9988 lr 1e-05
1435 Epoch 9990/10000
1436 - 0s - loss: 0.0010 - mean_absolute_error: 0.0067 - val_loss:
20.7649 - val_mean_absolute_error: 2.9231
1437
1438 Epoch 09990: saving model to ./model/
model_Epoch9990_val_mean_absolute_error2.923.h5
1439 epoch_end_callback epoch 9989 lr 1e-05
1440 Epoch 9991/10000
1441 - 0s - loss: 9.9258e-04 - mean_absolute_error: 0.0066 -
val_loss: 20.7782 - val_mean_absolute_error: 2.9230
1442 epoch_end_callback epoch 9990 lr 1e-05
1443 Epoch 9992/10000
1444 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7736 - val_mean_absolute_error: 2.9241
1445 epoch_end_callback epoch 9991 lr 1e-05
1446 Epoch 9993/10000
1447 - 0s - loss: 0.0010 - mean_absolute_error: 0.0071 - val_loss:
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1448 epoch_end_callback epoch 9992 lr 1e-05
1449 Epoch 9994/10000
1450 - 0s - loss: 9.9330e-04 - mean_absolute_error: 0.0067 -
val_loss: 20.7710 - val_mean_absolute_error: 2.9235
1451 epoch_end_callback epoch 9993 lr 1e-05
1452 Epoch 9995/10000
1453 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
20.7704 - val_mean_absolute_error: 2.9252
1454 epoch_end_callback epoch 9994 lr 1e-05
1455 Epoch 9996/10000
1456 - 0s - loss: 0.0010 - mean_absolute_error: 0.0072 - val_loss:
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1457 epoch_end_callback epoch 9995 lr 1e-05
1458 Epoch 9997/10000
1459 - 0s - loss: 0.0010 - mean_absolute_error: 0.0070 - val_loss:
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1460 epoch_end_callback epoch 9996 lr 1e-05
```

```

1461 Epoch 9998/10000
1462   - 0s - loss: 9.9637e-04 - mean_absolute_error: 0.0072 -
    val_loss: 20.7394 - val_mean_absolute_error: 2.9221
1463 epoch_end_callback epoch 9997 lr 1e-05
1464 Epoch 9999/10000
1465   - 0s - loss: 9.6346e-04 - mean_absolute_error: 0.0072 -
    val_loss: 20.7656 - val_mean_absolute_error: 2.9236
1466 epoch_end_callback epoch 9998 lr 1e-05
1467 Epoch 10000/10000
1468   - 0s - loss: 9.6846e-04 - mean_absolute_error: 0.0070 -
    val_loss: 20.7547 - val_mean_absolute_error: 2.9222
1469
1470 Epoch 10000: saving model to ./model/
    model_Epoch10000_val_mean_absolute_error2.922.h5
1471 epoch_end_callback epoch 9999 lr 1e-05
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1475 #####model evaluate#####
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1476 results test_loss: 18.42152763815487
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1477 results test_mean_absolute_error: 2.908701438529819
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1478 #####model predict#####
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1480 Process finished with exit code 0
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1481
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