

File - run (1)

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1 ssh: //root@103.254.67.181:10006/usr/bin/python -u /home/sunfengzhen/pycharm/car2/run.py
2 Using TensorFlow backend.
3 #####work mode train #####
4 car_seq.shape (1320, 12)
5 target_seq.shape (1320, 4)
6 trainX.shape (1320, 12)
7 trainY.shape (1320, 4)
8 validX.shape (110, 12)
9 validY.shape (110, 4)
10
11 Layer (type)          Output Shape          Param #
12 =====
13 hidden01 (Dense)      (None, 36)            468
14
15 output (Dense)        (None, 4)             148
16 =====
17 Total params: 616
18 Trainable params: 616
19 Non-trainable params: 0
20
21 #####model train#####
22 model.metrics_names = ['loss', 'mean_squared_error']
23 Train on 1320 samples, validate on 110 samples
24 Epoch 1/1000
25 2019-11-07 07:41:17.943100: I tensorflow/core/platform/cpu_feature_guard.cc:141] Your CPU supports
  instructions that this TensorFlow binary was not compiled to use: AVX2 FMA
26 2019-11-07 07:41:18.202212: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1432] Found device 0 with
  properties:
27 name: GeForce GTX 1080 Ti major: 6 minor: 1 memoryClockRate(GHz): 1.582
28 pciBusID: 0000:02:00.0
29 totalMemory: 10.92GiB freeMemory: 10.62GiB
30 2019-11-07 07:41:18.202434: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1511] Adding visible gpu
  devices: 0
31 2019-11-07 07:41:18.758138: I tensorflow/core/common_runtime/gpu/gpu_device.cc:982] Device interconnect
  StreamExecutor with strength 1 edge matrix:
32 2019-11-07 07:41:18.758206: I tensorflow/core/common_runtime/gpu/gpu_device.cc:988] 0
33 2019-11-07 07:41:18.758224: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1001] 0: N
34 2019-11-07 07:41:18.758556: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1115] Created TensorFlow
  device (/job:localhost/replica:0/task:0/device:GPU:0 with 10269 MB memory) -> physical GPU (device: 0,
  name: GeForce GTX 1080 Ti, pci bus id: 0000:02:00.0, compute capability: 6.1)
35 - 3s - loss: 79990.3662 - mean_squared_error: 79990.3662 - val_loss: 70601.9471 - val_mean_squared_error
  : 70601.9471
36 Epoch 2/1000
37 - 1s - loss: 57307.1327 - mean_squared_error: 57307.1327 - val_loss: 50490.0435 - val_mean_squared_error
  : 50490.0435
38 Epoch 3/1000
39 - 1s - loss: 56412.6903 - mean_squared_error: 56412.6903 - val_loss: 63715.3644 - val_mean_squared_error
  : 63715.3644
40 Epoch 4/1000
41 - 1s - loss: 60627.3640 - mean_squared_error: 60627.3640 - val_loss: 48213.2616 - val_mean_squared_error
  : 48213.2616
42 Epoch 5/1000
43 - 1s - loss: 58567.0457 - mean_squared_error: 58567.0457 - val_loss: 61235.8446 - val_mean_squared_error
  : 61235.8446
44 Epoch 6/1000
45 - 1s - loss: 50151.1511 - mean_squared_error: 50151.1511 - val_loss: 44607.2820 - val_mean_squared_error
  : 44607.2820
46 Epoch 7/1000
47 - 1s - loss: 52344.5979 - mean_squared_error: 52344.5979 - val_loss: 43279.4112 - val_mean_squared_error
  : 43279.4112
48 Epoch 8/1000

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49 - 1s - loss: 48029.2859 - mean_squared_error: 48029.2859 - val_loss: 38981.8742 - val_mean_squared_error
: 38981.8742
50 Epoch 9/1000
51 - 1s - loss: 43675.0183 - mean_squared_error: 43675.0183 - val_loss: 41997.6052 - val_mean_squared_error
: 41997.6052
52 Epoch 10/1000
53 - 1s - loss: 47163.8880 - mean_squared_error: 47163.8880 - val_loss: 43323.0522 - val_mean_squared_error
: 43323.0522
54 Epoch 11/1000
55 - 1s - loss: 45664.3340 - mean_squared_error: 45664.3340 - val_loss: 46216.8277 - val_mean_squared_error
: 46216.8277
56 Epoch 12/1000
57 - 1s - loss: 44802.7148 - mean_squared_error: 44802.7148 - val_loss: 41903.5623 - val_mean_squared_error
: 41903.5623
58 Epoch 13/1000
59 - 1s - loss: 45959.6084 - mean_squared_error: 45959.6084 - val_loss: 46252.0786 - val_mean_squared_error
: 46252.0786
60 Epoch 14/1000
61 - 1s - loss: 47196.7986 - mean_squared_error: 47196.7986 - val_loss: 40929.7101 - val_mean_squared_error
: 40929.7101
62 Epoch 15/1000
63 - 1s - loss: 44737.5919 - mean_squared_error: 44737.5919 - val_loss: 40559.7040 - val_mean_squared_error
: 40559.7040
64 Epoch 16/1000
65 - 1s - loss: 45374.2570 - mean_squared_error: 45374.2570 - val_loss: 40456.0100 - val_mean_squared_error
: 40456.0100
66 Epoch 17/1000
67 - 1s - loss: 44541.4723 - mean_squared_error: 44541.4723 - val_loss: 38199.7507 - val_mean_squared_error
: 38199.7507
68 Epoch 18/1000
69 - 1s - loss: 44810.5723 - mean_squared_error: 44810.5723 - val_loss: 38860.4191 - val_mean_squared_error
: 38860.4191
70 Epoch 19/1000
71 - 1s - loss: 43461.1468 - mean_squared_error: 43461.1468 - val_loss: 35783.3722 - val_mean_squared_error
: 35783.3722
72 Epoch 20/1000
73 - 1s - loss: 43926.4156 - mean_squared_error: 43926.4156 - val_loss: 36691.2359 - val_mean_squared_error
: 36691.2359
74 Epoch 21/1000
75 - 1s - loss: 43789.9753 - mean_squared_error: 43789.9753 - val_loss: 37582.8357 - val_mean_squared_error
: 37582.8357
76 Epoch 22/1000
77 - 1s - loss: 42948.2424 - mean_squared_error: 42948.2424 - val_loss: 37159.0559 - val_mean_squared_error
: 37159.0559
78 Epoch 23/1000
79 - 1s - loss: 44001.8587 - mean_squared_error: 44001.8587 - val_loss: 44802.5422 - val_mean_squared_error
: 44802.5422
80 Epoch 24/1000
81 - 1s - loss: 44833.8505 - mean_squared_error: 44833.8505 - val_loss: 34594.9813 - val_mean_squared_error
: 34594.9813
82 Epoch 25/1000
83 - 1s - loss: 42211.8451 - mean_squared_error: 42211.8451 - val_loss: 35404.6159 - val_mean_squared_error
: 35404.6159
84 Epoch 26/1000
85 - 1s - loss: 42049.4215 - mean_squared_error: 42049.4215 - val_loss: 35806.8293 - val_mean_squared_error
: 35806.8293
86 Epoch 27/1000
87 - 1s - loss: 42194.5495 - mean_squared_error: 42194.5495 - val_loss: 30995.4027 - val_mean_squared_error
: 30995.4027
88 Epoch 28/1000
89 - 1s - loss: 42421.1262 - mean_squared_error: 42421.1262 - val_loss: 35273.0764 - val_mean_squared_error
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89 : 35273.0764
90 Epoch 29/1000
91 - 1s - loss: 42970.1468 - mean_squared_error: 42970.1468 - val_loss: 37922.7045 - val_mean_squared_error
: 37922.7045
92 Epoch 30/1000
93 - 1s - loss: 41436.1844 - mean_squared_error: 41436.1844 - val_loss: 31351.3287 - val_mean_squared_error
: 31351.3287
94 Epoch 31/1000
95 - 1s - loss: 41955.4612 - mean_squared_error: 41955.4612 - val_loss: 33038.6655 - val_mean_squared_error
: 33038.6655
96 Epoch 32/1000
97 - 1s - loss: 42771.1017 - mean_squared_error: 42771.1017 - val_loss: 38551.0757 - val_mean_squared_error
: 38551.0757
98 Epoch 33/1000
99 - 1s - loss: 41559.7501 - mean_squared_error: 41559.7501 - val_loss: 32554.0442 - val_mean_squared_error
: 32554.0442
100 Epoch 34/1000
101 - 1s - loss: 42083.9903 - mean_squared_error: 42083.9903 - val_loss: 35172.4414 - val_mean_squared_error
: 35172.4414
102 Epoch 35/1000
103 - 1s - loss: 40843.9395 - mean_squared_error: 40843.9395 - val_loss: 33586.1988 - val_mean_squared_error
: 33586.1988
104 Epoch 36/1000
105 - 1s - loss: 40957.5410 - mean_squared_error: 40957.5410 - val_loss: 32824.3087 - val_mean_squared_error
: 32824.3087
106 Epoch 37/1000
107 - 1s - loss: 42543.1566 - mean_squared_error: 42543.1566 - val_loss: 32650.2967 - val_mean_squared_error
: 32650.2967
108 Epoch 38/1000
109 - 1s - loss: 41026.1279 - mean_squared_error: 41026.1279 - val_loss: 34441.4498 - val_mean_squared_error
: 34441.4498
110 Epoch 39/1000
111 - 1s - loss: 40601.2757 - mean_squared_error: 40601.2757 - val_loss: 31207.7202 - val_mean_squared_error
: 31207.7202
112 Epoch 40/1000
113 - 1s - loss: 41009.1315 - mean_squared_error: 41009.1315 - val_loss: 30455.8504 - val_mean_squared_error
: 30455.8504
114 Epoch 41/1000
115 - 1s - loss: 41713.1392 - mean_squared_error: 41713.1392 - val_loss: 31722.3772 - val_mean_squared_error
: 31722.3772
116 Epoch 42/1000
117 - 1s - loss: 40602.1841 - mean_squared_error: 40602.1841 - val_loss: 37699.1958 - val_mean_squared_error
: 37699.1958
118 Epoch 43/1000
119 - 1s - loss: 40829.1771 - mean_squared_error: 40829.1771 - val_loss: 32466.3354 - val_mean_squared_error
: 32466.3354
120 Epoch 44/1000
121 - 1s - loss: 41431.6927 - mean_squared_error: 41431.6927 - val_loss: 31426.0070 - val_mean_squared_error
: 31426.0070
122 Epoch 45/1000
123 - 1s - loss: 40090.9646 - mean_squared_error: 40090.9646 - val_loss: 38963.8547 - val_mean_squared_error
: 38963.8547
124 Epoch 46/1000
125 - 1s - loss: 41224.8423 - mean_squared_error: 41224.8423 - val_loss: 35281.8886 - val_mean_squared_error
: 35281.8886
126 Epoch 47/1000
127 - 1s - loss: 42250.5668 - mean_squared_error: 42250.5668 - val_loss: 32210.6146 - val_mean_squared_error
: 32210.6146
128 Epoch 48/1000
129 - 1s - loss: 40709.6402 - mean_squared_error: 40709.6402 - val_loss: 35789.5718 - val_mean_squared_error
: 35789.5718
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130 Epoch 49/1000
131   - 1s - loss: 42094.7319 - mean_squared_error: 42094.7319 - val_loss: 31522.3782 - val_mean_squared_error
    : 31522.3782
132 Epoch 50/1000
133   - 1s - loss: 40134.0864 - mean_squared_error: 40134.0864 - val_loss: 32954.3700 - val_mean_squared_error
    : 32954.3700
134 Epoch 51/1000
135   - 1s - loss: 42118.3967 - mean_squared_error: 42118.3967 - val_loss: 32417.6655 - val_mean_squared_error
    : 32417.6655
136 Epoch 52/1000
137   - 1s - loss: 41557.5133 - mean_squared_error: 41557.5133 - val_loss: 34936.0423 - val_mean_squared_error
    : 34936.0423
138 Epoch 53/1000
139   - 1s - loss: 42758.7721 - mean_squared_error: 42758.7721 - val_loss: 35240.1914 - val_mean_squared_error
    : 35240.1914
140 Epoch 54/1000
141   - 1s - loss: 41677.6099 - mean_squared_error: 41677.6099 - val_loss: 34106.7805 - val_mean_squared_error
    : 34106.7805
142 Epoch 55/1000
143   - 1s - loss: 40233.2235 - mean_squared_error: 40233.2235 - val_loss: 41819.5558 - val_mean_squared_error
    : 41819.5558
144 Epoch 56/1000
145   - 1s - loss: 40899.1015 - mean_squared_error: 40899.1015 - val_loss: 34049.4067 - val_mean_squared_error
    : 34049.4067
146 Epoch 57/1000
147   - 1s - loss: 42152.9029 - mean_squared_error: 42152.9029 - val_loss: 35158.4630 - val_mean_squared_error
    : 35158.4630
148 Epoch 58/1000
149   - 1s - loss: 41320.8731 - mean_squared_error: 41320.8731 - val_loss: 35760.0819 - val_mean_squared_error
    : 35760.0819
150 Epoch 59/1000
151   - 1s - loss: 40017.6608 - mean_squared_error: 40017.6608 - val_loss: 39273.1544 - val_mean_squared_error
    : 39273.1544
152 Epoch 60/1000
153   - 1s - loss: 41158.6459 - mean_squared_error: 41158.6459 - val_loss: 36472.0128 - val_mean_squared_error
    : 36472.0128
154 Epoch 61/1000
155   - 1s - loss: 40472.0829 - mean_squared_error: 40472.0829 - val_loss: 37973.7074 - val_mean_squared_error
    : 37973.7074
156 Epoch 62/1000
157   - 1s - loss: 40217.1168 - mean_squared_error: 40217.1168 - val_loss: 39706.3050 - val_mean_squared_error
    : 39706.3050
158 Epoch 63/1000
159   - 1s - loss: 40180.9624 - mean_squared_error: 40180.9624 - val_loss: 44222.5692 - val_mean_squared_error
    : 44222.5692
160 Epoch 64/1000
161   - 1s - loss: 39943.6728 - mean_squared_error: 39943.6728 - val_loss: 52449.4957 - val_mean_squared_error
    : 52449.4957
162 Epoch 65/1000
163   - 1s - loss: 40304.1397 - mean_squared_error: 40304.1397 - val_loss: 39854.7228 - val_mean_squared_error
    : 39854.7228
164 Epoch 66/1000
165   - 1s - loss: 40149.7015 - mean_squared_error: 40149.7015 - val_loss: 40253.7298 - val_mean_squared_error
    : 40253.7298
166 Epoch 67/1000
167   - 1s - loss: 39697.6472 - mean_squared_error: 39697.6472 - val_loss: 55145.9714 - val_mean_squared_error
    : 55145.9714
168 Epoch 68/1000
169   - 1s - loss: 39514.8713 - mean_squared_error: 39514.8713 - val_loss: 48926.4641 - val_mean_squared_error
    : 48926.4641
170 Epoch 69/1000
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171 - 1s - loss: 39881.4748 - mean_squared_error: 39881.4748 - val_loss: 39374.7628 - val_mean_squared_error
: 39374.7628
172 Epoch 70/1000
173 - 1s - loss: 39674.6461 - mean_squared_error: 39674.6461 - val_loss: 39713.9438 - val_mean_squared_error
: 39713.9438
174 Epoch 71/1000
175 - 1s - loss: 39374.9146 - mean_squared_error: 39374.9146 - val_loss: 46740.2059 - val_mean_squared_error
: 46740.2059
176 Epoch 72/1000
177 - 1s - loss: 39523.2393 - mean_squared_error: 39523.2393 - val_loss: 58635.7380 - val_mean_squared_error
: 58635.7380
178 Epoch 73/1000
179 - 1s - loss: 39350.3685 - mean_squared_error: 39350.3685 - val_loss: 49407.5835 - val_mean_squared_error
: 49407.5835
180 Epoch 74/1000
181 - 1s - loss: 39482.1316 - mean_squared_error: 39482.1316 - val_loss: 40610.5316 - val_mean_squared_error
: 40610.5316
182 Epoch 75/1000
183 - 1s - loss: 39295.7048 - mean_squared_error: 39295.7048 - val_loss: 42649.8424 - val_mean_squared_error
: 42649.8424
184 Epoch 76/1000
185 - 1s - loss: 39201.0964 - mean_squared_error: 39201.0964 - val_loss: 47785.1258 - val_mean_squared_error
: 47785.1258
186 Epoch 77/1000
187 - 1s - loss: 39222.9358 - mean_squared_error: 39222.9358 - val_loss: 50397.9600 - val_mean_squared_error
: 50397.9600
188 Epoch 78/1000
189 - 1s - loss: 39602.1751 - mean_squared_error: 39602.1751 - val_loss: 62644.3315 - val_mean_squared_error
: 62644.3315
190 Epoch 79/1000
191 - 1s - loss: 39211.1049 - mean_squared_error: 39211.1049 - val_loss: 51799.6637 - val_mean_squared_error
: 51799.6637
192 Epoch 80/1000
193 - 1s - loss: 38807.7974 - mean_squared_error: 38807.7974 - val_loss: 41433.3115 - val_mean_squared_error
: 41433.3115
194 Epoch 81/1000
195 - 1s - loss: 39245.7091 - mean_squared_error: 39245.7091 - val_loss: 41014.3602 - val_mean_squared_error
: 41014.3602
196 Epoch 82/1000
197 - 1s - loss: 39296.3543 - mean_squared_error: 39296.3543 - val_loss: 41382.3735 - val_mean_squared_error
: 41382.3735
198 Epoch 83/1000
199 - 1s - loss: 38954.4089 - mean_squared_error: 38954.4089 - val_loss: 47541.7985 - val_mean_squared_error
: 47541.7985
200 Epoch 84/1000
201 - 1s - loss: 38962.6574 - mean_squared_error: 38962.6574 - val_loss: 47901.1821 - val_mean_squared_error
: 47901.1821
202 Epoch 85/1000
203 - 1s - loss: 39402.6633 - mean_squared_error: 39402.6633 - val_loss: 59180.4701 - val_mean_squared_error
: 59180.4701
204 Epoch 86/1000
205 - 1s - loss: 38901.8842 - mean_squared_error: 38901.8842 - val_loss: 45682.9421 - val_mean_squared_error
: 45682.9421
206 Epoch 87/1000
207 - 1s - loss: 39240.5413 - mean_squared_error: 39240.5413 - val_loss: 40299.9851 - val_mean_squared_error
: 40299.9851
208 Epoch 88/1000
209 - 1s - loss: 38856.5013 - mean_squared_error: 38856.5013 - val_loss: 44274.7087 - val_mean_squared_error
: 44274.7087
210 Epoch 89/1000
211 - 1s - loss: 38749.4225 - mean_squared_error: 38749.4225 - val_loss: 46412.4120 - val_mean_squared_error
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File - run (1)

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211 : 46412.4120
212 Epoch 90/1000
213 - 1s - loss: 39030.0831 - mean_squared_error: 39030.0831 - val_loss: 48640.6015 - val_mean_squared_error
: 48640.6015
214 Epoch 91/1000
215 - 1s - loss: 38570.5247 - mean_squared_error: 38570.5247 - val_loss: 38604.5189 - val_mean_squared_error
: 38604.5189
216 Epoch 92/1000
217 - 1s - loss: 38692.6457 - mean_squared_error: 38692.6457 - val_loss: 35844.7177 - val_mean_squared_error
: 35844.7177
218 Epoch 93/1000
219 - 1s - loss: 39146.6804 - mean_squared_error: 39146.6804 - val_loss: 37469.3922 - val_mean_squared_error
: 37469.3922
220 Epoch 94/1000
221 - 1s - loss: 38929.8436 - mean_squared_error: 38929.8436 - val_loss: 42777.3402 - val_mean_squared_error
: 42777.3402
222 Epoch 95/1000
223 - 1s - loss: 38793.2026 - mean_squared_error: 38793.2026 - val_loss: 45211.6998 - val_mean_squared_error
: 45211.6998
224 Epoch 96/1000
225 - 1s - loss: 38667.8660 - mean_squared_error: 38667.8660 - val_loss: 49645.4489 - val_mean_squared_error
: 49645.4489
226 Epoch 97/1000
227 - 1s - loss: 39039.5838 - mean_squared_error: 39039.5838 - val_loss: 49104.8680 - val_mean_squared_error
: 49104.8680
228 Epoch 98/1000
229 - 1s - loss: 38288.0641 - mean_squared_error: 38288.0641 - val_loss: 39948.3955 - val_mean_squared_error
: 39948.3955
230 Epoch 99/1000
231 - 1s - loss: 38523.6497 - mean_squared_error: 38523.6497 - val_loss: 36172.7705 - val_mean_squared_error
: 36172.7705
232 Epoch 100/1000
233 - 1s - loss: 39165.9440 - mean_squared_error: 39165.9440 - val_loss: 36589.2302 - val_mean_squared_error
: 36589.2302
234 Epoch 101/1000
235 - 1s - loss: 38818.1810 - mean_squared_error: 38818.1810 - val_loss: 44565.1817 - val_mean_squared_error
: 44565.1817
236 Epoch 102/1000
237 - 1s - loss: 38324.2358 - mean_squared_error: 38324.2358 - val_loss: 46529.3641 - val_mean_squared_error
: 46529.3641
238 Epoch 103/1000
239 - 1s - loss: 38704.4876 - mean_squared_error: 38704.4876 - val_loss: 39806.8320 - val_mean_squared_error
: 39806.8320
240 Epoch 104/1000
241 - 1s - loss: 38543.2731 - mean_squared_error: 38543.2731 - val_loss: 47577.1121 - val_mean_squared_error
: 47577.1121
242 Epoch 105/1000
243 - 1s - loss: 38741.6471 - mean_squared_error: 38741.6471 - val_loss: 47880.9477 - val_mean_squared_error
: 47880.9477
244 Epoch 106/1000
245 - 1s - loss: 38853.3027 - mean_squared_error: 38853.3027 - val_loss: 46054.2694 - val_mean_squared_error
: 46054.2694
246 Epoch 107/1000
247 - 1s - loss: 38461.9073 - mean_squared_error: 38461.9073 - val_loss: 50124.2099 - val_mean_squared_error
: 50124.2099
248 Epoch 108/1000
249 - 1s - loss: 38731.1695 - mean_squared_error: 38731.1695 - val_loss: 47953.2880 - val_mean_squared_error
: 47953.2880
250 Epoch 109/1000
251 - 1s - loss: 38132.3669 - mean_squared_error: 38132.3669 - val_loss: 40509.2193 - val_mean_squared_error
: 40509.2193
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252 Epoch 110/1000
253   - 1s - loss: 38296.9206 - mean_squared_error: 38296.9206 - val_loss: 36914.7966 - val_mean_squared_error
    : 36914.7966
254 Epoch 111/1000
255   - 1s - loss: 38636.7829 - mean_squared_error: 38636.7829 - val_loss: 37111.1254 - val_mean_squared_error
    : 37111.1254
256 Epoch 112/1000
257   - 1s - loss: 37850.7310 - mean_squared_error: 37850.7310 - val_loss: 40821.3915 - val_mean_squared_error
    : 40821.3915
258 Epoch 113/1000
259   - 1s - loss: 38485.9059 - mean_squared_error: 38485.9059 - val_loss: 40211.1242 - val_mean_squared_error
    : 40211.1242
260 Epoch 114/1000
261   - 1s - loss: 38411.4727 - mean_squared_error: 38411.4727 - val_loss: 47054.4703 - val_mean_squared_error
    : 47054.4703
262 Epoch 115/1000
263   - 1s - loss: 38243.9472 - mean_squared_error: 38243.9472 - val_loss: 47573.2873 - val_mean_squared_error
    : 47573.2873
264 Epoch 116/1000
265   - 1s - loss: 38028.4800 - mean_squared_error: 38028.4800 - val_loss: 40543.1708 - val_mean_squared_error
    : 40543.1708
266 Epoch 117/1000
267   - 1s - loss: 38256.7516 - mean_squared_error: 38256.7516 - val_loss: 42938.5501 - val_mean_squared_error
    : 42938.5501
268 Epoch 118/1000
269   - 1s - loss: 38398.4338 - mean_squared_error: 38398.4338 - val_loss: 48436.1905 - val_mean_squared_error
    : 48436.1905
270 Epoch 119/1000
271   - 1s - loss: 38272.1723 - mean_squared_error: 38272.1723 - val_loss: 49341.7615 - val_mean_squared_error
    : 49341.7615
272 Epoch 120/1000
273   - 1s - loss: 38082.1022 - mean_squared_error: 38082.1022 - val_loss: 43660.0482 - val_mean_squared_error
    : 43660.0482
274 Epoch 121/1000
275   - 1s - loss: 38664.4345 - mean_squared_error: 38664.4345 - val_loss: 40798.8002 - val_mean_squared_error
    : 40798.8002
276 Epoch 122/1000
277   - 1s - loss: 37860.2788 - mean_squared_error: 37860.2788 - val_loss: 45168.2374 - val_mean_squared_error
    : 45168.2374
278 Epoch 123/1000
279   - 1s - loss: 38287.8654 - mean_squared_error: 38287.8654 - val_loss: 42547.7236 - val_mean_squared_error
    : 42547.7236
280 Epoch 124/1000
281   - 1s - loss: 38005.5998 - mean_squared_error: 38005.5998 - val_loss: 47350.1335 - val_mean_squared_error
    : 47350.1335
282 Epoch 125/1000
283   - 1s - loss: 38069.6628 - mean_squared_error: 38069.6628 - val_loss: 44321.7798 - val_mean_squared_error
    : 44321.7798
284 Epoch 126/1000
285   - 1s - loss: 38253.5950 - mean_squared_error: 38253.5950 - val_loss: 43267.7011 - val_mean_squared_error
    : 43267.7011
286 Epoch 127/1000
287   - 1s - loss: 37939.4893 - mean_squared_error: 37939.4893 - val_loss: 46167.4923 - val_mean_squared_error
    : 46167.4923
288 Epoch 128/1000
289   - 1s - loss: 38338.4238 - mean_squared_error: 38338.4238 - val_loss: 50214.4242 - val_mean_squared_error
    : 50214.4242
290 Epoch 129/1000
291   - 1s - loss: 38116.3760 - mean_squared_error: 38116.3760 - val_loss: 46517.2643 - val_mean_squared_error
    : 46517.2643
292 Epoch 130/1000
```

File - run (1)

```
293 - 1s - loss: 38151.4993 - mean_squared_error: 38151.4993 - val_loss: 43589.4841 - val_mean_squared_error
: 43589.4841
294 Epoch 131/1000
295 - 1s - loss: 37892.8063 - mean_squared_error: 37892.8063 - val_loss: 45912.4590 - val_mean_squared_error
: 45912.4590
296 Epoch 132/1000
297 - 1s - loss: 38311.6334 - mean_squared_error: 38311.6334 - val_loss: 50574.3714 - val_mean_squared_error
: 50574.3714
298 Epoch 133/1000
299 - 1s - loss: 38458.0359 - mean_squared_error: 38458.0359 - val_loss: 43479.7702 - val_mean_squared_error
: 43479.7702
300 Epoch 134/1000
301 - 1s - loss: 37808.1130 - mean_squared_error: 37808.1130 - val_loss: 46457.9655 - val_mean_squared_error
: 46457.9655
302 Epoch 135/1000
303 - 1s - loss: 38343.4580 - mean_squared_error: 38343.4580 - val_loss: 51235.9786 - val_mean_squared_error
: 51235.9786
304 Epoch 136/1000
305 - 1s - loss: 38195.3340 - mean_squared_error: 38195.3340 - val_loss: 45793.6167 - val_mean_squared_error
: 45793.6167
306 Epoch 137/1000
307 - 1s - loss: 37865.5981 - mean_squared_error: 37865.5981 - val_loss: 40785.4010 - val_mean_squared_error
: 40785.4010
308 Epoch 138/1000
309 - 1s - loss: 38237.0486 - mean_squared_error: 38237.0486 - val_loss: 42638.1538 - val_mean_squared_error
: 42638.1538
310 Epoch 139/1000
311 - 1s - loss: 37926.9903 - mean_squared_error: 37926.9903 - val_loss: 43889.3014 - val_mean_squared_error
: 43889.3014
312 Epoch 140/1000
313 - 1s - loss: 38129.6070 - mean_squared_error: 38129.6070 - val_loss: 49140.3545 - val_mean_squared_error
: 49140.3545
314 Epoch 141/1000
315 - 1s - loss: 38353.4545 - mean_squared_error: 38353.4545 - val_loss: 42958.7886 - val_mean_squared_error
: 42958.7886
316 Epoch 142/1000
317 - 1s - loss: 38098.5063 - mean_squared_error: 38098.5063 - val_loss: 44353.2662 - val_mean_squared_error
: 44353.2662
318 Epoch 143/1000
319 - 1s - loss: 38327.3805 - mean_squared_error: 38327.3805 - val_loss: 51062.2798 - val_mean_squared_error
: 51062.2798
320 Epoch 144/1000
321 - 1s - loss: 38128.0726 - mean_squared_error: 38128.0726 - val_loss: 43054.3896 - val_mean_squared_error
: 43054.3896
322 Epoch 145/1000
323 - 1s - loss: 37932.9483 - mean_squared_error: 37932.9483 - val_loss: 41835.6999 - val_mean_squared_error
: 41835.6999
324 Epoch 146/1000
325 - 1s - loss: 38076.7354 - mean_squared_error: 38076.7354 - val_loss: 42949.9648 - val_mean_squared_error
: 42949.9648
326 Epoch 147/1000
327 - 1s - loss: 38042.2218 - mean_squared_error: 38042.2218 - val_loss: 46375.1006 - val_mean_squared_error
: 46375.1006
328 Epoch 148/1000
329 - 1s - loss: 38081.3909 - mean_squared_error: 38081.3909 - val_loss: 47110.1509 - val_mean_squared_error
: 47110.1509
330 Epoch 149/1000
331 - 1s - loss: 38423.5316 - mean_squared_error: 38423.5316 - val_loss: 52184.9752 - val_mean_squared_error
: 52184.9752
332 Epoch 150/1000
333 - 1s - loss: 38027.9127 - mean_squared_error: 38027.9127 - val_loss: 44161.4535 - val_mean_squared_error
```


File - run (1)

```
333 : 44161.4535
334 Epoch 151/1000
335 - 1s - loss: 37922.5898 - mean_squared_error: 37922.5898 - val_loss: 40257.5970 - val_mean_squared_error
: 40257.5970
336 Epoch 152/1000
337 - 1s - loss: 37846.0722 - mean_squared_error: 37846.0722 - val_loss: 38008.6778 - val_mean_squared_error
: 38008.6778
338 Epoch 153/1000
339 - 1s - loss: 37489.2598 - mean_squared_error: 37489.2598 - val_loss: 42870.2891 - val_mean_squared_error
: 42870.2891
340 Epoch 154/1000
341 - 1s - loss: 38166.8292 - mean_squared_error: 38166.8292 - val_loss: 39536.1443 - val_mean_squared_error
: 39536.1443
342 Epoch 155/1000
343 - 1s - loss: 37905.7781 - mean_squared_error: 37905.7781 - val_loss: 43076.8468 - val_mean_squared_error
: 43076.8468
344 Epoch 156/1000
345 - 1s - loss: 38122.4560 - mean_squared_error: 38122.4560 - val_loss: 47449.9994 - val_mean_squared_error
: 47449.9994
346 Epoch 157/1000
347 - 1s - loss: 38464.0714 - mean_squared_error: 38464.0714 - val_loss: 49897.8479 - val_mean_squared_error
: 49897.8479
348 Epoch 158/1000
349 - 1s - loss: 37827.3141 - mean_squared_error: 37827.3141 - val_loss: 43300.3170 - val_mean_squared_error
: 43300.3170
350 Epoch 159/1000
351 - 1s - loss: 38219.8344 - mean_squared_error: 38219.8344 - val_loss: 38267.8197 - val_mean_squared_error
: 38267.8197
352 Epoch 160/1000
353 - 1s - loss: 37751.8203 - mean_squared_error: 37751.8203 - val_loss: 39748.6408 - val_mean_squared_error
: 39748.6408
354 Epoch 161/1000
355 - 1s - loss: 37843.1896 - mean_squared_error: 37843.1896 - val_loss: 45532.3207 - val_mean_squared_error
: 45532.3207
356 Epoch 162/1000
357 - 1s - loss: 38015.0513 - mean_squared_error: 38015.0513 - val_loss: 43814.3621 - val_mean_squared_error
: 43814.3621
358 Epoch 163/1000
359 - 1s - loss: 38062.7887 - mean_squared_error: 38062.7887 - val_loss: 40036.2347 - val_mean_squared_error
: 40036.2347
360 Epoch 164/1000
361 - 1s - loss: 37736.0300 - mean_squared_error: 37736.0300 - val_loss: 40918.8534 - val_mean_squared_error
: 40918.8534
362 Epoch 165/1000
363 - 1s - loss: 37895.8702 - mean_squared_error: 37895.8702 - val_loss: 46733.7574 - val_mean_squared_error
: 46733.7574
364 Epoch 166/1000
365 - 1s - loss: 39165.4895 - mean_squared_error: 39165.4895 - val_loss: 54324.6503 - val_mean_squared_error
: 54324.6503
366 Epoch 167/1000
367 - 1s - loss: 38874.8541 - mean_squared_error: 38874.8541 - val_loss: 50887.6222 - val_mean_squared_error
: 50887.6222
368 Epoch 168/1000
369 - 1s - loss: 37961.6035 - mean_squared_error: 37961.6035 - val_loss: 39750.9746 - val_mean_squared_error
: 39750.9746
370 Epoch 169/1000
371 - 1s - loss: 37566.0339 - mean_squared_error: 37566.0339 - val_loss: 37196.5466 - val_mean_squared_error
: 37196.5466
372 Epoch 170/1000
373 - 1s - loss: 37999.5585 - mean_squared_error: 37999.5585 - val_loss: 35050.8078 - val_mean_squared_error
: 35050.8078
```

File - run (1)

```
374 Epoch 171/1000
375   - 1s - loss: 37225.3386 - mean_squared_error: 37225.3386 - val_loss: 39800.4538 - val_mean_squared_error
    : 39800.4538
376 Epoch 172/1000
377   - 1s - loss: 38151.8269 - mean_squared_error: 38151.8269 - val_loss: 37315.5647 - val_mean_squared_error
    : 37315.5647
378 Epoch 173/1000
379   - 1s - loss: 37279.6575 - mean_squared_error: 37279.6575 - val_loss: 42460.5679 - val_mean_squared_error
    : 42460.5679
380 Epoch 174/1000
381   - 1s - loss: 37738.0250 - mean_squared_error: 37738.0250 - val_loss: 40379.8988 - val_mean_squared_error
    : 40379.8988
382 Epoch 175/1000
383   - 1s - loss: 37885.0479 - mean_squared_error: 37885.0479 - val_loss: 38977.5805 - val_mean_squared_error
    : 38977.5805
384 Epoch 176/1000
385   - 1s - loss: 37792.8096 - mean_squared_error: 37792.8096 - val_loss: 40223.7984 - val_mean_squared_error
    : 40223.7984
386 Epoch 177/1000
387   - 1s - loss: 37910.6147 - mean_squared_error: 37910.6147 - val_loss: 45607.8279 - val_mean_squared_error
    : 45607.8279
388 Epoch 178/1000
389   - 1s - loss: 38801.8523 - mean_squared_error: 38801.8523 - val_loss: 48924.4777 - val_mean_squared_error
    : 48924.4777
390 Epoch 179/1000
391   - 1s - loss: 37865.1606 - mean_squared_error: 37865.1606 - val_loss: 43768.8005 - val_mean_squared_error
    : 43768.8005
392 Epoch 180/1000
393   - 1s - loss: 37715.9441 - mean_squared_error: 37715.9441 - val_loss: 39404.6337 - val_mean_squared_error
    : 39404.6337
394 Epoch 181/1000
395   - 1s - loss: 37614.7814 - mean_squared_error: 37614.7814 - val_loss: 39407.5095 - val_mean_squared_error
    : 39407.5095
396 Epoch 182/1000
397   - 1s - loss: 37708.5677 - mean_squared_error: 37708.5677 - val_loss: 42612.5453 - val_mean_squared_error
    : 42612.5453
398 Epoch 183/1000
399   - 1s - loss: 37858.8630 - mean_squared_error: 37858.8630 - val_loss: 45031.7305 - val_mean_squared_error
    : 45031.7305
400 Epoch 184/1000
401   - 1s - loss: 37770.0090 - mean_squared_error: 37770.0090 - val_loss: 44428.9781 - val_mean_squared_error
    : 44428.9781
402 Epoch 185/1000
403   - 1s - loss: 37734.7469 - mean_squared_error: 37734.7469 - val_loss: 42295.3552 - val_mean_squared_error
    : 42295.3552
404 Epoch 186/1000
405   - 1s - loss: 37632.2628 - mean_squared_error: 37632.2628 - val_loss: 40832.2746 - val_mean_squared_error
    : 40832.2746
406 Epoch 187/1000
407   - 1s - loss: 37896.6395 - mean_squared_error: 37896.6395 - val_loss: 41077.7627 - val_mean_squared_error
    : 41077.7627
408 Epoch 188/1000
409   - 1s - loss: 37760.6403 - mean_squared_error: 37760.6403 - val_loss: 42570.9688 - val_mean_squared_error
    : 42570.9688
410 Epoch 189/1000
411   - 1s - loss: 38302.9555 - mean_squared_error: 38302.9555 - val_loss: 48152.8264 - val_mean_squared_error
    : 48152.8264
412 Epoch 190/1000
413   - 1s - loss: 38861.7267 - mean_squared_error: 38861.7267 - val_loss: 50532.9559 - val_mean_squared_error
    : 50532.9559
414 Epoch 191/1000
```

File - run (1)

```
415 - 1s - loss: 37802.8969 - mean_squared_error: 37802.8969 - val_loss: 44354.6568 - val_mean_squared_error
: 44354.6568
416 Epoch 192/1000
417 - 1s - loss: 37421.4914 - mean_squared_error: 37421.4914 - val_loss: 42878.5528 - val_mean_squared_error
: 42878.5528
418 Epoch 193/1000
419 - 1s - loss: 37585.2715 - mean_squared_error: 37585.2715 - val_loss: 39854.2783 - val_mean_squared_error
: 39854.2783
420 Epoch 194/1000
421 - 1s - loss: 37472.3137 - mean_squared_error: 37472.3137 - val_loss: 41889.3315 - val_mean_squared_error
: 41889.3315
422 Epoch 195/1000
423 - 1s - loss: 37775.4815 - mean_squared_error: 37775.4815 - val_loss: 44568.6670 - val_mean_squared_error
: 44568.6670
424 Epoch 196/1000
425 - 1s - loss: 37618.7331 - mean_squared_error: 37618.7331 - val_loss: 44120.0215 - val_mean_squared_error
: 44120.0215
426 Epoch 197/1000
427 - 1s - loss: 37667.5106 - mean_squared_error: 37667.5106 - val_loss: 42675.2748 - val_mean_squared_error
: 42675.2748
428 Epoch 198/1000
429 - 1s - loss: 37599.9270 - mean_squared_error: 37599.9270 - val_loss: 42461.2307 - val_mean_squared_error
: 42461.2307
430 Epoch 199/1000
431 - 1s - loss: 37700.9357 - mean_squared_error: 37700.9357 - val_loss: 41216.0541 - val_mean_squared_error
: 41216.0541
432 Epoch 200/1000
433 - 1s - loss: 37847.3476 - mean_squared_error: 37847.3476 - val_loss: 44313.7448 - val_mean_squared_error
: 44313.7448
434 Epoch 201/1000
435 - 1s - loss: 38072.8623 - mean_squared_error: 38072.8623 - val_loss: 48489.8911 - val_mean_squared_error
: 48489.8911
436 Epoch 202/1000
437 - 1s - loss: 38613.2216 - mean_squared_error: 38613.2216 - val_loss: 51868.7139 - val_mean_squared_error
: 51868.7139
438 Epoch 203/1000
439 - 1s - loss: 37906.5119 - mean_squared_error: 37906.5119 - val_loss: 46845.7208 - val_mean_squared_error
: 46845.7208
440 Epoch 204/1000
441 - 1s - loss: 37895.5466 - mean_squared_error: 37895.5466 - val_loss: 43787.2560 - val_mean_squared_error
: 43787.2560
442 Epoch 205/1000
443 - 1s - loss: 37333.5321 - mean_squared_error: 37333.5321 - val_loss: 42544.9255 - val_mean_squared_error
: 42544.9255
444 Epoch 206/1000
445 - 1s - loss: 37521.3338 - mean_squared_error: 37521.3338 - val_loss: 40141.9976 - val_mean_squared_error
: 40141.9976
446 Epoch 207/1000
447 - 1s - loss: 37642.6531 - mean_squared_error: 37642.6531 - val_loss: 41808.2663 - val_mean_squared_error
: 41808.2663
448 Epoch 208/1000
449 - 1s - loss: 37663.9473 - mean_squared_error: 37663.9473 - val_loss: 44619.6333 - val_mean_squared_error
: 44619.6333
450 Epoch 209/1000
451 - 1s - loss: 38129.1240 - mean_squared_error: 38129.1240 - val_loss: 45487.1491 - val_mean_squared_error
: 45487.1491
452 Epoch 210/1000
453 - 1s - loss: 37966.0711 - mean_squared_error: 37966.0711 - val_loss: 44296.7528 - val_mean_squared_error
: 44296.7528
454 Epoch 211/1000
455 - 1s - loss: 37649.3632 - mean_squared_error: 37649.3632 - val_loss: 44208.2770 - val_mean_squared_error
```

File - run (1)

```
455 : 44208.2770
456 Epoch 212/1000
457 - 1s - loss: 37848.5371 - mean_squared_error: 37848.5371 - val_loss: 40719.7276 - val_mean_squared_error
: 40719.7276
458 Epoch 213/1000
459 - 1s - loss: 37451.2015 - mean_squared_error: 37451.2015 - val_loss: 41452.7437 - val_mean_squared_error
: 41452.7437
460 Epoch 214/1000
461 - 1s - loss: 37649.4628 - mean_squared_error: 37649.4628 - val_loss: 44832.4761 - val_mean_squared_error
: 44832.4761
462 Epoch 215/1000
463 - 1s - loss: 37977.1274 - mean_squared_error: 37977.1274 - val_loss: 45881.6945 - val_mean_squared_error
: 45881.6945
464 Epoch 216/1000
465 - 1s - loss: 37845.5334 - mean_squared_error: 37845.5334 - val_loss: 45416.0873 - val_mean_squared_error
: 45416.0873
466 Epoch 217/1000
467 - 1s - loss: 37764.2048 - mean_squared_error: 37764.2048 - val_loss: 44764.2061 - val_mean_squared_error
: 44764.2061
468 Epoch 218/1000
469 - 1s - loss: 37632.9015 - mean_squared_error: 37632.9015 - val_loss: 42816.3997 - val_mean_squared_error
: 42816.3997
470 Epoch 219/1000
471 - 1s - loss: 37508.5053 - mean_squared_error: 37508.5053 - val_loss: 44432.4712 - val_mean_squared_error
: 44432.4712
472 Epoch 220/1000
473 - 1s - loss: 37736.1706 - mean_squared_error: 37736.1706 - val_loss: 42292.0371 - val_mean_squared_error
: 42292.0371
474 Epoch 221/1000
475 - 1s - loss: 37690.9918 - mean_squared_error: 37690.9918 - val_loss: 42405.1469 - val_mean_squared_error
: 42405.1469
476 Epoch 222/1000
477 - 1s - loss: 37768.4916 - mean_squared_error: 37768.4916 - val_loss: 42365.5757 - val_mean_squared_error
: 42365.5757
478 Epoch 223/1000
479 - 1s - loss: 37758.4543 - mean_squared_error: 37758.4543 - val_loss: 42134.4706 - val_mean_squared_error
: 42134.4706
480 Epoch 224/1000
481 - 1s - loss: 37575.7888 - mean_squared_error: 37575.7888 - val_loss: 44088.7974 - val_mean_squared_error
: 44088.7974
482 Epoch 225/1000
483 - 1s - loss: 38365.7924 - mean_squared_error: 38365.7924 - val_loss: 48772.3243 - val_mean_squared_error
: 48772.3243
484 Epoch 226/1000
485 - 1s - loss: 38861.3366 - mean_squared_error: 38861.3366 - val_loss: 66639.9066 - val_mean_squared_error
: 66639.9066
486 Epoch 227/1000
487 - 1s - loss: 39021.2095 - mean_squared_error: 39021.2095 - val_loss: 57864.8914 - val_mean_squared_error
: 57864.8914
488 Epoch 228/1000
489 - 1s - loss: 37648.3921 - mean_squared_error: 37648.3921 - val_loss: 44653.0441 - val_mean_squared_error
: 44653.0441
490 Epoch 229/1000
491 - 1s - loss: 37151.6948 - mean_squared_error: 37151.6948 - val_loss: 39698.0010 - val_mean_squared_error
: 39698.0010
492 Epoch 230/1000
493 - 1s - loss: 37276.0708 - mean_squared_error: 37276.0708 - val_loss: 38961.2766 - val_mean_squared_error
: 38961.2766
494 Epoch 231/1000
495 - 1s - loss: 37161.8281 - mean_squared_error: 37161.8281 - val_loss: 40115.7290 - val_mean_squared_error
: 40115.7290
```

File - run (1)

```
496 Epoch 232/1000
497   - 1s - loss: 37585.3109 - mean_squared_error: 37585.3109 - val_loss: 39145.6405 - val_mean_squared_error
    : 39145.6405
498 Epoch 233/1000
499   - 1s - loss: 37347.8909 - mean_squared_error: 37347.8909 - val_loss: 40879.0101 - val_mean_squared_error
    : 40879.0101
500 Epoch 234/1000
501   - 1s - loss: 38071.3522 - mean_squared_error: 38071.3522 - val_loss: 46764.4879 - val_mean_squared_error
    : 46764.4879
502 Epoch 235/1000
503   - 1s - loss: 37989.3083 - mean_squared_error: 37989.3083 - val_loss: 46425.3009 - val_mean_squared_error
    : 46425.3009
504 Epoch 236/1000
505   - 1s - loss: 37441.2797 - mean_squared_error: 37441.2797 - val_loss: 43345.8303 - val_mean_squared_error
    : 43345.8303
506 Epoch 237/1000
507   - 1s - loss: 37513.3412 - mean_squared_error: 37513.3412 - val_loss: 41696.3488 - val_mean_squared_error
    : 41696.3488
508 Epoch 238/1000
509   - 1s - loss: 37963.6988 - mean_squared_error: 37963.6988 - val_loss: 47556.0309 - val_mean_squared_error
    : 47556.0309
510 Epoch 239/1000
511   - 1s - loss: 38635.7131 - mean_squared_error: 38635.7131 - val_loss: 52516.2298 - val_mean_squared_error
    : 52516.2298
512 Epoch 240/1000
513   - 1s - loss: 38931.1715 - mean_squared_error: 38931.1715 - val_loss: 55806.4430 - val_mean_squared_error
    : 55806.4430
514 Epoch 241/1000
515   - 1s - loss: 37869.5827 - mean_squared_error: 37869.5827 - val_loss: 47652.2198 - val_mean_squared_error
    : 47652.2198
516 Epoch 242/1000
517   - 1s - loss: 36996.0467 - mean_squared_error: 36996.0467 - val_loss: 41712.3056 - val_mean_squared_error
    : 41712.3056
518 Epoch 243/1000
519   - 1s - loss: 37245.6839 - mean_squared_error: 37245.6839 - val_loss: 40281.2630 - val_mean_squared_error
    : 40281.2630
520 Epoch 244/1000
521   - 1s - loss: 37153.0496 - mean_squared_error: 37153.0496 - val_loss: 41421.0346 - val_mean_squared_error
    : 41421.0346
522 Epoch 245/1000
523   - 1s - loss: 37370.0391 - mean_squared_error: 37370.0391 - val_loss: 40814.1893 - val_mean_squared_error
    : 40814.1893
524 Epoch 246/1000
525   - 1s - loss: 37511.2174 - mean_squared_error: 37511.2174 - val_loss: 40570.3609 - val_mean_squared_error
    : 40570.3609
526 Epoch 247/1000
527   - 1s - loss: 38305.7966 - mean_squared_error: 38305.7966 - val_loss: 50442.9484 - val_mean_squared_error
    : 50442.9484
528 Epoch 248/1000
529   - 1s - loss: 38736.2548 - mean_squared_error: 38736.2548 - val_loss: 58668.7775 - val_mean_squared_error
    : 58668.7775
530 Epoch 249/1000
531   - 1s - loss: 38418.4482 - mean_squared_error: 38418.4482 - val_loss: 53984.4291 - val_mean_squared_error
    : 53984.4291
532 Epoch 250/1000
533   - 1s - loss: 37544.6539 - mean_squared_error: 37544.6539 - val_loss: 45232.0233 - val_mean_squared_error
    : 45232.0233
534 Epoch 251/1000
535   - 1s - loss: 37030.0370 - mean_squared_error: 37030.0370 - val_loss: 40885.5956 - val_mean_squared_error
    : 40885.5956
536 Epoch 252/1000
```

File - run (1)

```
537 - 1s - loss: 37150.5651 - mean_squared_error: 37150.5651 - val_loss: 39679.5407 - val_mean_squared_error
: 39679.5407
538 Epoch 253/1000
539 - 1s - loss: 37131.0170 - mean_squared_error: 37131.0170 - val_loss: 40529.9860 - val_mean_squared_error
: 40529.9860
540 Epoch 254/1000
541 - 1s - loss: 37306.6390 - mean_squared_error: 37306.6390 - val_loss: 40242.1104 - val_mean_squared_error
: 40242.1104
542 Epoch 255/1000
543 - 1s - loss: 38060.1698 - mean_squared_error: 38060.1698 - val_loss: 49280.6456 - val_mean_squared_error
: 49280.6456
544 Epoch 256/1000
545 - 1s - loss: 38818.1874 - mean_squared_error: 38818.1874 - val_loss: 59800.0131 - val_mean_squared_error
: 59800.0131
546 Epoch 257/1000
547 - 1s - loss: 38284.6088 - mean_squared_error: 38284.6088 - val_loss: 53348.0509 - val_mean_squared_error
: 53348.0509
548 Epoch 258/1000
549 - 1s - loss: 37387.4700 - mean_squared_error: 37387.4700 - val_loss: 44806.3658 - val_mean_squared_error
: 44806.3658
550 Epoch 259/1000
551 - 1s - loss: 36972.1472 - mean_squared_error: 36972.1472 - val_loss: 41047.4360 - val_mean_squared_error
: 41047.4360
552 Epoch 260/1000
553 - 1s - loss: 37107.8365 - mean_squared_error: 37107.8365 - val_loss: 40071.4626 - val_mean_squared_error
: 40071.4626
554 Epoch 261/1000
555 - 1s - loss: 37086.1697 - mean_squared_error: 37086.1697 - val_loss: 40878.3006 - val_mean_squared_error
: 40878.3006
556 Epoch 262/1000
557 - 1s - loss: 37582.4151 - mean_squared_error: 37582.4151 - val_loss: 44558.7338 - val_mean_squared_error
: 44558.7338
558 Epoch 263/1000
559 - 1s - loss: 37889.9745 - mean_squared_error: 37889.9745 - val_loss: 48852.2301 - val_mean_squared_error
: 48852.2301
560 Epoch 264/1000
561 - 1s - loss: 38606.7034 - mean_squared_error: 38606.7034 - val_loss: 54467.3374 - val_mean_squared_error
: 54467.3374
562 Epoch 265/1000
563 - 1s - loss: 38245.5257 - mean_squared_error: 38245.5257 - val_loss: 53376.1915 - val_mean_squared_error
: 53376.1915
564 Epoch 266/1000
565 - 1s - loss: 37562.2902 - mean_squared_error: 37562.2902 - val_loss: 46598.7942 - val_mean_squared_error
: 46598.7942
566 Epoch 267/1000
567 - 1s - loss: 36952.7909 - mean_squared_error: 36952.7909 - val_loss: 41804.0531 - val_mean_squared_error
: 41804.0531
568 Epoch 268/1000
569 - 1s - loss: 37119.3809 - mean_squared_error: 37119.3809 - val_loss: 40887.9421 - val_mean_squared_error
: 40887.9421
570 Epoch 269/1000
571 - 1s - loss: 37173.8549 - mean_squared_error: 37173.8549 - val_loss: 41451.0629 - val_mean_squared_error
: 41451.0629
572 Epoch 270/1000
573 - 1s - loss: 37289.3465 - mean_squared_error: 37289.3465 - val_loss: 42202.4546 - val_mean_squared_error
: 42202.4546
574 Epoch 271/1000
575 - 1s - loss: 38466.8798 - mean_squared_error: 38466.8798 - val_loss: 52208.7347 - val_mean_squared_error
: 52208.7347
576 Epoch 272/1000
577 - 1s - loss: 38205.9702 - mean_squared_error: 38205.9702 - val_loss: 53790.0106 - val_mean_squared_error
```

File - run (1)

```
577 : 53790.0106
578 Epoch 273/1000
579 - 1s - loss: 37968.5341 - mean_squared_error: 37968.5341 - val_loss: 50758.9772 - val_mean_squared_error
: 50758.9772
580 Epoch 274/1000
581 - 1s - loss: 37476.8047 - mean_squared_error: 37476.8047 - val_loss: 48749.6615 - val_mean_squared_error
: 48749.6615
582 Epoch 275/1000
583 - 1s - loss: 37416.6342 - mean_squared_error: 37416.6342 - val_loss: 47982.7019 - val_mean_squared_error
: 47982.7019
584 Epoch 276/1000
585 - 1s - loss: 37426.2467 - mean_squared_error: 37426.2467 - val_loss: 47835.1833 - val_mean_squared_error
: 47835.1833
586 Epoch 277/1000
587 - 1s - loss: 37439.3311 - mean_squared_error: 37439.3311 - val_loss: 48067.0626 - val_mean_squared_error
: 48067.0626
588 Epoch 278/1000
589 - 1s - loss: 37453.7637 - mean_squared_error: 37453.7637 - val_loss: 48300.3959 - val_mean_squared_error
: 48300.3959
590 Epoch 279/1000
591 - 1s - loss: 37461.6912 - mean_squared_error: 37461.6912 - val_loss: 48461.0304 - val_mean_squared_error
: 48461.0304
592 Epoch 280/1000
593 - 1s - loss: 37374.6188 - mean_squared_error: 37374.6188 - val_loss: 47675.8696 - val_mean_squared_error
: 47675.8696
594 Epoch 281/1000
595 - 1s - loss: 37853.6685 - mean_squared_error: 37853.6685 - val_loss: 52260.9999 - val_mean_squared_error
: 52260.9999
596 Epoch 282/1000
597 - 1s - loss: 37494.3829 - mean_squared_error: 37494.3829 - val_loss: 50730.6332 - val_mean_squared_error
: 50730.6332
598 Epoch 283/1000
599 - 1s - loss: 37408.8286 - mean_squared_error: 37408.8286 - val_loss: 49505.7784 - val_mean_squared_error
: 49505.7784
600 Epoch 284/1000
601 - 1s - loss: 37442.5548 - mean_squared_error: 37442.5548 - val_loss: 49516.5828 - val_mean_squared_error
: 49516.5828
602 Epoch 285/1000
603 - 1s - loss: 37444.3076 - mean_squared_error: 37444.3076 - val_loss: 49464.1683 - val_mean_squared_error
: 49464.1683
604 Epoch 286/1000
605 - 1s - loss: 37384.9402 - mean_squared_error: 37384.9402 - val_loss: 49529.7249 - val_mean_squared_error
: 49529.7249
606 Epoch 287/1000
607 - 1s - loss: 37388.3616 - mean_squared_error: 37388.3616 - val_loss: 49352.9897 - val_mean_squared_error
: 49352.9897
608 Epoch 288/1000
609 - 1s - loss: 37339.8662 - mean_squared_error: 37339.8662 - val_loss: 49423.8951 - val_mean_squared_error
: 49423.8951
610 Epoch 289/1000
611 - 1s - loss: 37390.1800 - mean_squared_error: 37390.1800 - val_loss: 48640.6562 - val_mean_squared_error
: 48640.6562
612 Epoch 290/1000
613 - 1s - loss: 37363.3582 - mean_squared_error: 37363.3582 - val_loss: 47547.6802 - val_mean_squared_error
: 47547.6802
614 Epoch 291/1000
615 - 1s - loss: 37351.0405 - mean_squared_error: 37351.0405 - val_loss: 46974.0105 - val_mean_squared_error
: 46974.0105
616 Epoch 292/1000
617 - 1s - loss: 37301.0473 - mean_squared_error: 37301.0473 - val_loss: 47109.1752 - val_mean_squared_error
: 47109.1752
```

File - run (1)

```
618 Epoch 293/1000
619   - 1s - loss: 37336.7985 - mean_squared_error: 37336.7985 - val_loss: 47102.7448 - val_mean_squared_error
    : 47102.7448
620 Epoch 294/1000
621   - 1s - loss: 37279.6722 - mean_squared_error: 37279.6722 - val_loss: 48158.9513 - val_mean_squared_error
    : 48158.9513
622 Epoch 295/1000
623   - 1s - loss: 37347.3219 - mean_squared_error: 37347.3219 - val_loss: 48714.0969 - val_mean_squared_error
    : 48714.0969
624 Epoch 296/1000
625   - 1s - loss: 37259.2942 - mean_squared_error: 37259.2942 - val_loss: 47814.0378 - val_mean_squared_error
    : 47814.0378
626 Epoch 297/1000
627   - 1s - loss: 37490.7643 - mean_squared_error: 37490.7643 - val_loss: 52939.5039 - val_mean_squared_error
    : 52939.5039
628 Epoch 298/1000
629   - 1s - loss: 37385.7386 - mean_squared_error: 37385.7386 - val_loss: 50534.0551 - val_mean_squared_error
    : 50534.0551
630 Epoch 299/1000
631   - 1s - loss: 37372.8123 - mean_squared_error: 37372.8123 - val_loss: 49807.2058 - val_mean_squared_error
    : 49807.2058
632 Epoch 300/1000
633   - 1s - loss: 37309.7315 - mean_squared_error: 37309.7315 - val_loss: 49531.7400 - val_mean_squared_error
    : 49531.7400
634 Epoch 301/1000
635   - 1s - loss: 37312.2763 - mean_squared_error: 37312.2763 - val_loss: 49035.4829 - val_mean_squared_error
    : 49035.4829
636 Epoch 302/1000
637   - 1s - loss: 37289.2348 - mean_squared_error: 37289.2348 - val_loss: 48593.3049 - val_mean_squared_error
    : 48593.3049
638 Epoch 303/1000
639   - 1s - loss: 37270.6980 - mean_squared_error: 37270.6980 - val_loss: 48498.2176 - val_mean_squared_error
    : 48498.2176
640 Epoch 304/1000
641   - 1s - loss: 37268.2411 - mean_squared_error: 37268.2411 - val_loss: 48506.2029 - val_mean_squared_error
    : 48506.2029
642 Epoch 305/1000
643   - 1s - loss: 37261.4582 - mean_squared_error: 37261.4582 - val_loss: 48978.1421 - val_mean_squared_error
    : 48978.1421
644 Epoch 306/1000
645   - 1s - loss: 37326.0660 - mean_squared_error: 37326.0660 - val_loss: 49561.3783 - val_mean_squared_error
    : 49561.3783
646 Epoch 307/1000
647   - 1s - loss: 37306.6198 - mean_squared_error: 37306.6198 - val_loss: 50320.7325 - val_mean_squared_error
    : 50320.7325
648 Epoch 308/1000
649   - 1s - loss: 37291.6470 - mean_squared_error: 37291.6470 - val_loss: 50605.7886 - val_mean_squared_error
    : 50605.7886
650 Epoch 309/1000
651   - 1s - loss: 37299.6891 - mean_squared_error: 37299.6891 - val_loss: 50615.5362 - val_mean_squared_error
    : 50615.5362
652 Epoch 310/1000
653   - 1s - loss: 37321.7046 - mean_squared_error: 37321.7046 - val_loss: 50783.9508 - val_mean_squared_error
    : 50783.9508
654 Epoch 311/1000
655   - 1s - loss: 37334.5018 - mean_squared_error: 37334.5018 - val_loss: 50599.4547 - val_mean_squared_error
    : 50599.4547
656 Epoch 312/1000
657   - 1s - loss: 37288.2378 - mean_squared_error: 37288.2378 - val_loss: 50514.4994 - val_mean_squared_error
    : 50514.4994
658 Epoch 313/1000
```


File - run (1)

```
659 - 1s - loss: 37280.3487 - mean_squared_error: 37280.3487 - val_loss: 50314.4842 - val_mean_squared_error
: 50314.4842
660 Epoch 314/1000
661 - 1s - loss: 37261.5189 - mean_squared_error: 37261.5189 - val_loss: 50166.6805 - val_mean_squared_error
: 50166.6805
662 Epoch 315/1000
663 - 1s - loss: 37249.6361 - mean_squared_error: 37249.6361 - val_loss: 50037.7700 - val_mean_squared_error
: 50037.7700
664 Epoch 316/1000
665 - 1s - loss: 37211.0232 - mean_squared_error: 37211.0232 - val_loss: 49677.8553 - val_mean_squared_error
: 49677.8553
666 Epoch 317/1000
667 - 1s - loss: 37204.2888 - mean_squared_error: 37204.2888 - val_loss: 49520.9657 - val_mean_squared_error
: 49520.9657
668 Epoch 318/1000
669 - 1s - loss: 37202.9368 - mean_squared_error: 37202.9368 - val_loss: 49508.6230 - val_mean_squared_error
: 49508.6230
670 Epoch 319/1000
671 - 1s - loss: 37205.9364 - mean_squared_error: 37205.9364 - val_loss: 49510.6603 - val_mean_squared_error
: 49510.6603
672 Epoch 320/1000
673 - 1s - loss: 37208.6543 - mean_squared_error: 37208.6543 - val_loss: 49513.8823 - val_mean_squared_error
: 49513.8823
674 Epoch 321/1000
675 - 1s - loss: 37210.6479 - mean_squared_error: 37210.6479 - val_loss: 49509.0705 - val_mean_squared_error
: 49509.0705
676 Epoch 322/1000
677 - 1s - loss: 37221.1837 - mean_squared_error: 37221.1837 - val_loss: 49451.5904 - val_mean_squared_error
: 49451.5904
678 Epoch 323/1000
679 - 1s - loss: 37222.5403 - mean_squared_error: 37222.5403 - val_loss: 49451.6915 - val_mean_squared_error
: 49451.6915
680 Epoch 324/1000
681 - 1s - loss: 37228.7410 - mean_squared_error: 37228.7410 - val_loss: 49428.5289 - val_mean_squared_error
: 49428.5289
682 Epoch 325/1000
683 - 1s - loss: 37231.8433 - mean_squared_error: 37231.8433 - val_loss: 49403.1510 - val_mean_squared_error
: 49403.1510
684 Epoch 326/1000
685 - 1s - loss: 37226.7644 - mean_squared_error: 37226.7644 - val_loss: 49324.9717 - val_mean_squared_error
: 49324.9717
686 Epoch 327/1000
687 - 1s - loss: 37227.8531 - mean_squared_error: 37227.8531 - val_loss: 49277.1967 - val_mean_squared_error
: 49277.1967
688 Epoch 328/1000
689 - 1s - loss: 37230.2131 - mean_squared_error: 37230.2131 - val_loss: 49260.8313 - val_mean_squared_error
: 49260.8313
690 Epoch 329/1000
691 - 1s - loss: 37237.2565 - mean_squared_error: 37237.2565 - val_loss: 49278.9922 - val_mean_squared_error
: 49278.9922
692 Epoch 330/1000
693 - 1s - loss: 37237.6881 - mean_squared_error: 37237.6881 - val_loss: 49238.5303 - val_mean_squared_error
: 49238.5303
694 Epoch 331/1000
695 - 1s - loss: 37236.7915 - mean_squared_error: 37236.7915 - val_loss: 49173.7795 - val_mean_squared_error
: 49173.7795
696 Epoch 332/1000
697 - 1s - loss: 37235.4547 - mean_squared_error: 37235.4547 - val_loss: 49109.2646 - val_mean_squared_error
: 49109.2646
698 Epoch 333/1000
699 - 1s - loss: 37234.4365 - mean_squared_error: 37234.4365 - val_loss: 49046.7858 - val_mean_squared_error
```

File - run (1)

```
699 : 49046.7858
700 Epoch 334/1000
701 - 1s - loss: 37233.7329 - mean_squared_error: 37233.7329 - val_loss: 48987.4728 - val_mean_squared_error
: 48987.4728
702 Epoch 335/1000
703 - 1s - loss: 37233.3467 - mean_squared_error: 37233.3467 - val_loss: 48931.4547 - val_mean_squared_error
: 48931.4547
704 Epoch 336/1000
705 - 1s - loss: 37234.1271 - mean_squared_error: 37234.1271 - val_loss: 49142.6534 - val_mean_squared_error
: 49142.6534
706 Epoch 337/1000
707 - 1s - loss: 37243.3912 - mean_squared_error: 37243.3912 - val_loss: 49101.5944 - val_mean_squared_error
: 49101.5944
708 Epoch 338/1000
709 - 1s - loss: 37241.6524 - mean_squared_error: 37241.6524 - val_loss: 49001.4877 - val_mean_squared_error
: 49001.4877
710 Epoch 339/1000
711 - 1s - loss: 37239.5149 - mean_squared_error: 37239.5149 - val_loss: 48921.7638 - val_mean_squared_error
: 48921.7638
712 Epoch 340/1000
713 - 1s - loss: 37238.7607 - mean_squared_error: 37238.7607 - val_loss: 48856.7716 - val_mean_squared_error
: 48856.7716
714 Epoch 341/1000
715 - 1s - loss: 37238.8399 - mean_squared_error: 37238.8399 - val_loss: 48801.2791 - val_mean_squared_error
: 48801.2791
716 Epoch 342/1000
717 - 1s - loss: 37239.3531 - mean_squared_error: 37239.3531 - val_loss: 48750.1309 - val_mean_squared_error
: 48750.1309
718 Epoch 343/1000
719 - 1s - loss: 37240.0190 - mean_squared_error: 37240.0190 - val_loss: 48700.4289 - val_mean_squared_error
: 48700.4289
720 Epoch 344/1000
721 - 1s - loss: 37240.2906 - mean_squared_error: 37240.2906 - val_loss: 48650.8309 - val_mean_squared_error
: 48650.8309
722 Epoch 345/1000
723 - 1s - loss: 37240.9398 - mean_squared_error: 37240.9398 - val_loss: 48600.1317 - val_mean_squared_error
: 48600.1317
724 Epoch 346/1000
725 - 1s - loss: 37242.9247 - mean_squared_error: 37242.9247 - val_loss: 48629.0570 - val_mean_squared_error
: 48629.0570
726 Epoch 347/1000
727 - 1s - loss: 37234.6483 - mean_squared_error: 37234.6483 - val_loss: 48459.9326 - val_mean_squared_error
: 48459.9326
728 Epoch 348/1000
729 - 1s - loss: 37233.5232 - mean_squared_error: 37233.5232 - val_loss: 48496.5262 - val_mean_squared_error
: 48496.5262
730 Epoch 349/1000
731 - 1s - loss: 37237.3277 - mean_squared_error: 37237.3277 - val_loss: 48535.0926 - val_mean_squared_error
: 48535.0926
732 Epoch 350/1000
733 - 1s - loss: 37146.1703 - mean_squared_error: 37146.1703 - val_loss: 48541.5902 - val_mean_squared_error
: 48541.5902
734 Epoch 351/1000
735 - 1s - loss: 37233.3771 - mean_squared_error: 37233.3771 - val_loss: 49494.3006 - val_mean_squared_error
: 49494.3006
736 Epoch 352/1000
737 - 1s - loss: 37282.8979 - mean_squared_error: 37282.8979 - val_loss: 49297.8948 - val_mean_squared_error
: 49297.8948
738 Epoch 353/1000
739 - 1s - loss: 37182.5370 - mean_squared_error: 37182.5370 - val_loss: 48770.2593 - val_mean_squared_error
: 48770.2593
```

File - run (1)

```
740 Epoch 354/1000
741   - 1s - loss: 37177.2579 - mean_squared_error: 37177.2579 - val_loss: 48514.1104 - val_mean_squared_error
    : 48514.1104
742 Epoch 355/1000
743   - 1s - loss: 37242.0632 - mean_squared_error: 37242.0632 - val_loss: 49338.4683 - val_mean_squared_error
    : 49338.4683
744 Epoch 356/1000
745   - 1s - loss: 37279.7395 - mean_squared_error: 37279.7395 - val_loss: 48997.2897 - val_mean_squared_error
    : 48997.2897
746 Epoch 357/1000
747   - 1s - loss: 37181.1332 - mean_squared_error: 37181.1332 - val_loss: 48382.5882 - val_mean_squared_error
    : 48382.5882
748 Epoch 358/1000
749   - 1s - loss: 37126.6855 - mean_squared_error: 37126.6855 - val_loss: 47131.4468 - val_mean_squared_error
    : 47131.4468
750 Epoch 359/1000
751   - 1s - loss: 37110.6072 - mean_squared_error: 37110.6072 - val_loss: 46774.3343 - val_mean_squared_error
    : 46774.3343
752 Epoch 360/1000
753   - 1s - loss: 37108.8426 - mean_squared_error: 37108.8426 - val_loss: 47022.7715 - val_mean_squared_error
    : 47022.7715
754 Epoch 361/1000
755   - 1s - loss: 37125.6826 - mean_squared_error: 37125.6826 - val_loss: 47345.3146 - val_mean_squared_error
    : 47345.3146
756 Epoch 362/1000
757   - 1s - loss: 37144.1054 - mean_squared_error: 37144.1054 - val_loss: 47634.1895 - val_mean_squared_error
    : 47634.1895
758 Epoch 363/1000
759   - 1s - loss: 37231.0165 - mean_squared_error: 37231.0165 - val_loss: 49140.6124 - val_mean_squared_error
    : 49140.6124
760 Epoch 364/1000
761   - 1s - loss: 37295.4878 - mean_squared_error: 37295.4878 - val_loss: 49190.6614 - val_mean_squared_error
    : 49190.6614
762 Epoch 365/1000
763   - 1s - loss: 37258.7704 - mean_squared_error: 37258.7704 - val_loss: 49518.3489 - val_mean_squared_error
    : 49518.3489
764 Epoch 366/1000
765   - 1s - loss: 37275.9464 - mean_squared_error: 37275.9464 - val_loss: 50068.5944 - val_mean_squared_error
    : 50068.5944
766 Epoch 367/1000
767   - 1s - loss: 37285.0226 - mean_squared_error: 37285.0226 - val_loss: 49991.3045 - val_mean_squared_error
    : 49991.3045
768 Epoch 368/1000
769   - 1s - loss: 37274.6012 - mean_squared_error: 37274.6012 - val_loss: 49831.5623 - val_mean_squared_error
    : 49831.5623
770 Epoch 369/1000
771   - 1s - loss: 37219.0820 - mean_squared_error: 37219.0820 - val_loss: 48322.7842 - val_mean_squared_error
    : 48322.7842
772 Epoch 370/1000
773   - 1s - loss: 37141.8780 - mean_squared_error: 37141.8780 - val_loss: 48116.6419 - val_mean_squared_error
    : 48116.6419
774 Epoch 371/1000
775   - 1s - loss: 37289.2401 - mean_squared_error: 37289.2401 - val_loss: 47446.2717 - val_mean_squared_error
    : 47446.2717
776 Epoch 372/1000
777   - 1s - loss: 37250.4739 - mean_squared_error: 37250.4739 - val_loss: 47882.7391 - val_mean_squared_error
    : 47882.7391
778 Epoch 373/1000
779   - 1s - loss: 37320.0846 - mean_squared_error: 37320.0846 - val_loss: 47480.5320 - val_mean_squared_error
    : 47480.5320
780 Epoch 374/1000
```

File - run (1)

```
781 - 1s - loss: 37289.1352 - mean_squared_error: 37289.1352 - val_loss: 47917.1576 - val_mean_squared_error
: 47917.1576
782 Epoch 375/1000
783 - 1s - loss: 37354.4244 - mean_squared_error: 37354.4244 - val_loss: 47543.8869 - val_mean_squared_error
: 47543.8869
784 Epoch 376/1000
785 - 1s - loss: 37317.9299 - mean_squared_error: 37317.9299 - val_loss: 47868.3535 - val_mean_squared_error
: 47868.3535
786 Epoch 377/1000
787 - 1s - loss: 37334.0998 - mean_squared_error: 37334.0998 - val_loss: 48544.9555 - val_mean_squared_error
: 48544.9555
788 Epoch 378/1000
789 - 1s - loss: 37444.3206 - mean_squared_error: 37444.3206 - val_loss: 48832.3645 - val_mean_squared_error
: 48832.3645
790 Epoch 379/1000
791 - 1s - loss: 37473.9676 - mean_squared_error: 37473.9676 - val_loss: 48853.1101 - val_mean_squared_error
: 48853.1101
792 Epoch 380/1000
793 - 1s - loss: 37399.4198 - mean_squared_error: 37399.4198 - val_loss: 48543.5273 - val_mean_squared_error
: 48543.5273
794 Epoch 381/1000
795 - 1s - loss: 37404.6632 - mean_squared_error: 37404.6632 - val_loss: 48243.1862 - val_mean_squared_error
: 48243.1862
796 Epoch 382/1000
797 - 1s - loss: 37408.0598 - mean_squared_error: 37408.0598 - val_loss: 48149.4638 - val_mean_squared_error
: 48149.4638
798 Epoch 383/1000
799 - 1s - loss: 37416.8103 - mean_squared_error: 37416.8103 - val_loss: 48094.8893 - val_mean_squared_error
: 48094.8893
800 Epoch 384/1000
801 - 1s - loss: 37425.1344 - mean_squared_error: 37425.1344 - val_loss: 48053.2104 - val_mean_squared_error
: 48053.2104
802 Epoch 385/1000
803 - 1s - loss: 37422.7753 - mean_squared_error: 37422.7753 - val_loss: 47172.2103 - val_mean_squared_error
: 47172.2103
804 Epoch 386/1000
805 - 1s - loss: 37427.3342 - mean_squared_error: 37427.3342 - val_loss: 46954.2183 - val_mean_squared_error
: 46954.2183
806 Epoch 387/1000
807 - 1s - loss: 37481.7910 - mean_squared_error: 37481.7910 - val_loss: 48362.6278 - val_mean_squared_error
: 48362.6278
808 Epoch 388/1000
809 - 1s - loss: 37531.6991 - mean_squared_error: 37531.6991 - val_loss: 48817.6405 - val_mean_squared_error
: 48817.6405
810 Epoch 389/1000
811 - 1s - loss: 37537.6430 - mean_squared_error: 37537.6430 - val_loss: 48824.8816 - val_mean_squared_error
: 48824.8816
812 Epoch 390/1000
813 - 1s - loss: 37532.0749 - mean_squared_error: 37532.0749 - val_loss: 48597.9096 - val_mean_squared_error
: 48597.9096
814 Epoch 391/1000
815 - 1s - loss: 37523.1706 - mean_squared_error: 37523.1706 - val_loss: 48395.6327 - val_mean_squared_error
: 48395.6327
816 Epoch 392/1000
817 - 1s - loss: 37507.9106 - mean_squared_error: 37507.9106 - val_loss: 48285.4623 - val_mean_squared_error
: 48285.4623
818 Epoch 393/1000
819 - 1s - loss: 37509.9831 - mean_squared_error: 37509.9831 - val_loss: 47803.3706 - val_mean_squared_error
: 47803.3706
820 Epoch 394/1000
821 - 1s - loss: 37378.4288 - mean_squared_error: 37378.4288 - val_loss: 46099.0038 - val_mean_squared_error
```

File - run (1)

```
821 : 46099.0038
822 Epoch 395/1000
823 - 1s - loss: 37390.8060 - mean_squared_error: 37390.8060 - val_loss: 46031.6390 - val_mean_squared_error
: 46031.6390
824 Epoch 396/1000
825 - 1s - loss: 37402.1810 - mean_squared_error: 37402.1810 - val_loss: 46542.5413 - val_mean_squared_error
: 46542.5413
826 Epoch 397/1000
827 - 1s - loss: 37428.8923 - mean_squared_error: 37428.8923 - val_loss: 46919.2739 - val_mean_squared_error
: 46919.2739
828 Epoch 398/1000
829 - 1s - loss: 37454.6679 - mean_squared_error: 37454.6679 - val_loss: 47043.8148 - val_mean_squared_error
: 47043.8148
830 Epoch 399/1000
831 - 1s - loss: 37464.0566 - mean_squared_error: 37464.0566 - val_loss: 47056.3674 - val_mean_squared_error
: 47056.3674
832 Epoch 400/1000
833 - 1s - loss: 37468.3383 - mean_squared_error: 37468.3383 - val_loss: 47065.7816 - val_mean_squared_error
: 47065.7816
834 Epoch 401/1000
835 - 1s - loss: 37471.6517 - mean_squared_error: 37471.6517 - val_loss: 47045.9321 - val_mean_squared_error
: 47045.9321
836 Epoch 402/1000
837 - 1s - loss: 37473.6742 - mean_squared_error: 37473.6742 - val_loss: 47006.0222 - val_mean_squared_error
: 47006.0222
838 Epoch 403/1000
839 - 1s - loss: 37474.8205 - mean_squared_error: 37474.8205 - val_loss: 46954.9858 - val_mean_squared_error
: 46954.9858
840 Epoch 404/1000
841 - 1s - loss: 37489.2832 - mean_squared_error: 37489.2832 - val_loss: 46867.2500 - val_mean_squared_error
: 46867.2500
842 Epoch 405/1000
843 - 1s - loss: 37469.3266 - mean_squared_error: 37469.3266 - val_loss: 47053.6692 - val_mean_squared_error
: 47053.6692
844 Epoch 406/1000
845 - 1s - loss: 37498.7154 - mean_squared_error: 37498.7154 - val_loss: 47091.9968 - val_mean_squared_error
: 47091.9968
846 Epoch 407/1000
847 - 1s - loss: 37457.0212 - mean_squared_error: 37457.0212 - val_loss: 46243.1070 - val_mean_squared_error
: 46243.1070
848 Epoch 408/1000
849 - 1s - loss: 37439.2995 - mean_squared_error: 37439.2995 - val_loss: 46370.3224 - val_mean_squared_error
: 46370.3224
850 Epoch 409/1000
851 - 1s - loss: 37451.1874 - mean_squared_error: 37451.1874 - val_loss: 46469.0425 - val_mean_squared_error
: 46469.0425
852 Epoch 410/1000
853 - 1s - loss: 37472.9536 - mean_squared_error: 37472.9536 - val_loss: 46390.9011 - val_mean_squared_error
: 46390.9011
854 Epoch 411/1000
855 - 1s - loss: 37451.5269 - mean_squared_error: 37451.5269 - val_loss: 46705.7374 - val_mean_squared_error
: 46705.7374
856 Epoch 412/1000
857 - 1s - loss: 37528.3003 - mean_squared_error: 37528.3003 - val_loss: 47031.3932 - val_mean_squared_error
: 47031.3932
858 Epoch 413/1000
859 - 1s - loss: 37450.7402 - mean_squared_error: 37450.7402 - val_loss: 45647.2544 - val_mean_squared_error
: 45647.2544
860 Epoch 414/1000
861 - 1s - loss: 37416.7028 - mean_squared_error: 37416.7028 - val_loss: 45776.9411 - val_mean_squared_error
: 45776.9411
```

File - run (1)

```
862 Epoch 415/1000
863   - 1s - loss: 37445.8104 - mean_squared_error: 37445.8104 - val_loss: 45948.8105 - val_mean_squared_error
      : 45948.8105
864 Epoch 416/1000
865   - 1s - loss: 37436.6023 - mean_squared_error: 37436.6023 - val_loss: 46328.8342 - val_mean_squared_error
      : 46328.8342
866 Epoch 417/1000
867   - 1s - loss: 37492.0974 - mean_squared_error: 37492.0974 - val_loss: 46548.3380 - val_mean_squared_error
      : 46548.3380
868 Epoch 418/1000
869   - 1s - loss: 37440.7641 - mean_squared_error: 37440.7641 - val_loss: 45587.0177 - val_mean_squared_error
      : 45587.0177
870 Epoch 419/1000
871   - 1s - loss: 37434.9830 - mean_squared_error: 37434.9830 - val_loss: 45736.2701 - val_mean_squared_error
      : 45736.2701
872 Epoch 420/1000
873   - 1s - loss: 37427.8156 - mean_squared_error: 37427.8156 - val_loss: 46104.7555 - val_mean_squared_error
      : 46104.7555
874 Epoch 421/1000
875   - 1s - loss: 37483.5263 - mean_squared_error: 37483.5263 - val_loss: 46333.7342 - val_mean_squared_error
      : 46333.7342
876 Epoch 422/1000
877   - 1s - loss: 37435.2932 - mean_squared_error: 37435.2932 - val_loss: 45386.1680 - val_mean_squared_error
      : 45386.1680
878 Epoch 423/1000
879   - 1s - loss: 37430.5655 - mean_squared_error: 37430.5655 - val_loss: 45543.5134 - val_mean_squared_error
      : 45543.5134
880 Epoch 424/1000
881   - 1s - loss: 37452.5470 - mean_squared_error: 37452.5470 - val_loss: 46048.5405 - val_mean_squared_error
      : 46048.5405
882 Epoch 425/1000
883   - 1s - loss: 37476.7508 - mean_squared_error: 37476.7508 - val_loss: 45894.1445 - val_mean_squared_error
      : 45894.1445
884 Epoch 426/1000
885   - 1s - loss: 37422.1321 - mean_squared_error: 37422.1321 - val_loss: 45045.2070 - val_mean_squared_error
      : 45045.2070
886 Epoch 427/1000
887   - 1s - loss: 37471.3099 - mean_squared_error: 37471.3099 - val_loss: 45224.1473 - val_mean_squared_error
      : 45224.1473
888 Epoch 428/1000
889   - 1s - loss: 37491.0671 - mean_squared_error: 37491.0671 - val_loss: 45303.5975 - val_mean_squared_error
      : 45303.5975
890 Epoch 429/1000
891   - 1s - loss: 37467.9490 - mean_squared_error: 37467.9490 - val_loss: 45622.6473 - val_mean_squared_error
      : 45622.6473
892 Epoch 430/1000
893   - 1s - loss: 37460.0187 - mean_squared_error: 37460.0187 - val_loss: 45459.4355 - val_mean_squared_error
      : 45459.4355
894 Epoch 431/1000
895   - 1s - loss: 37443.6131 - mean_squared_error: 37443.6131 - val_loss: 45459.9264 - val_mean_squared_error
      : 45459.9264
896 Epoch 432/1000
897   - 1s - loss: 37425.1481 - mean_squared_error: 37425.1481 - val_loss: 45355.8437 - val_mean_squared_error
      : 45355.8437
898 Epoch 433/1000
899   - 1s - loss: 37478.1819 - mean_squared_error: 37478.1819 - val_loss: 44861.0270 - val_mean_squared_error
      : 44861.0270
900 Epoch 434/1000
901   - 1s - loss: 37423.2270 - mean_squared_error: 37423.2270 - val_loss: 45607.0426 - val_mean_squared_error
      : 45607.0426
902 Epoch 435/1000
```

File - run (1)

```
903 - 1s - loss: 37507.2602 - mean_squared_error: 37507.2602 - val_loss: 46138.1997 - val_mean_squared_error
: 46138.1997
904 Epoch 436/1000
905 - 1s - loss: 37497.5648 - mean_squared_error: 37497.5648 - val_loss: 44874.2241 - val_mean_squared_error
: 44874.2241
906 Epoch 437/1000
907 - 1s - loss: 37445.6520 - mean_squared_error: 37445.6520 - val_loss: 45231.0275 - val_mean_squared_error
: 45231.0275
908 Epoch 438/1000
909 - 1s - loss: 37537.0875 - mean_squared_error: 37537.0875 - val_loss: 45441.7760 - val_mean_squared_error
: 45441.7760
910 Epoch 439/1000
911 - 1s - loss: 37466.9037 - mean_squared_error: 37466.9037 - val_loss: 45267.6013 - val_mean_squared_error
: 45267.6013
912 Epoch 440/1000
913 - 1s - loss: 37543.3253 - mean_squared_error: 37543.3253 - val_loss: 45617.5859 - val_mean_squared_error
: 45617.5859
914 Epoch 441/1000
915 - 1s - loss: 37480.3244 - mean_squared_error: 37480.3244 - val_loss: 45273.6033 - val_mean_squared_error
: 45273.6033
916 Epoch 442/1000
917 - 1s - loss: 37548.3523 - mean_squared_error: 37548.3523 - val_loss: 45477.1370 - val_mean_squared_error
: 45477.1370
918 Epoch 443/1000
919 - 1s - loss: 37547.8538 - mean_squared_error: 37547.8538 - val_loss: 45051.3778 - val_mean_squared_error
: 45051.3778
920 Epoch 444/1000
921 - 1s - loss: 37549.9514 - mean_squared_error: 37549.9514 - val_loss: 44610.5053 - val_mean_squared_error
: 44610.5053
922 Epoch 445/1000
923 - 1s - loss: 37523.2592 - mean_squared_error: 37523.2592 - val_loss: 44544.3470 - val_mean_squared_error
: 44544.3470
924 Epoch 446/1000
925 - 1s - loss: 37535.2329 - mean_squared_error: 37535.2329 - val_loss: 44227.9605 - val_mean_squared_error
: 44227.9605
926 Epoch 447/1000
927 - 1s - loss: 37445.7015 - mean_squared_error: 37445.7015 - val_loss: 44619.7484 - val_mean_squared_error
: 44619.7484
928 Epoch 448/1000
929 - 1s - loss: 37536.0582 - mean_squared_error: 37536.0582 - val_loss: 45090.0252 - val_mean_squared_error
: 45090.0252
930 Epoch 449/1000
931 - 1s - loss: 37563.2146 - mean_squared_error: 37563.2146 - val_loss: 44222.0611 - val_mean_squared_error
: 44222.0611
932 Epoch 450/1000
933 - 1s - loss: 37536.4884 - mean_squared_error: 37536.4884 - val_loss: 43963.9533 - val_mean_squared_error
: 43963.9533
934 Epoch 451/1000
935 - 1s - loss: 37527.5760 - mean_squared_error: 37527.5760 - val_loss: 43843.1438 - val_mean_squared_error
: 43843.1438
936 Epoch 452/1000
937 - 1s - loss: 37522.4176 - mean_squared_error: 37522.4176 - val_loss: 43798.5433 - val_mean_squared_error
: 43798.5433
938 Epoch 453/1000
939 - 1s - loss: 37519.6208 - mean_squared_error: 37519.6208 - val_loss: 43794.5494 - val_mean_squared_error
: 43794.5494
940 Epoch 454/1000
941 - 1s - loss: 37518.2885 - mean_squared_error: 37518.2885 - val_loss: 43811.8936 - val_mean_squared_error
: 43811.8936
942 Epoch 455/1000
943 - 1s - loss: 37517.9563 - mean_squared_error: 37517.9563 - val_loss: 43837.3092 - val_mean_squared_error
```

File - run (1)

```
943 : 43837.3092
944 Epoch 456/1000
945 - 1s - loss: 37518.2111 - mean_squared_error: 37518.2111 - val_loss: 43862.8205 -
val_mean_squared_error: 43862.8205
946 Epoch 457/1000
947 - 1s - loss: 37518.7893 - mean_squared_error: 37518.7893 - val_loss: 43883.6315 -
val_mean_squared_error: 43883.6315
948 Epoch 458/1000
949 - 1s - loss: 37428.4374 - mean_squared_error: 37428.4374 - val_loss: 45192.9351 -
val_mean_squared_error: 45192.9351
950 Epoch 459/1000
951 - 1s - loss: 37552.1427 - mean_squared_error: 37552.1427 - val_loss: 45253.0560 -
val_mean_squared_error: 45253.0560
952 Epoch 460/1000
953 - 1s - loss: 37580.6907 - mean_squared_error: 37580.6907 - val_loss: 43944.6249 -
val_mean_squared_error: 43944.6249
954 Epoch 461/1000
955 - 1s - loss: 37539.5004 - mean_squared_error: 37539.5004 - val_loss: 43635.3944 -
val_mean_squared_error: 43635.3944
956 Epoch 462/1000
957 - 1s - loss: 37530.3415 - mean_squared_error: 37530.3415 - val_loss: 43469.6092 -
val_mean_squared_error: 43469.6092
958 Epoch 463/1000
959 - 1s - loss: 37524.1820 - mean_squared_error: 37524.1820 - val_loss: 43403.9923 -
val_mean_squared_error: 43403.9923
960 Epoch 464/1000
961 - 1s - loss: 37520.7819 - mean_squared_error: 37520.7819 - val_loss: 43390.2149 -
val_mean_squared_error: 43390.2149
962 Epoch 465/1000
963 - 1s - loss: 37518.9891 - mean_squared_error: 37518.9891 - val_loss: 43407.0742 -
val_mean_squared_error: 43407.0742
964 Epoch 466/1000
965 - 1s - loss: 37518.3649 - mean_squared_error: 37518.3649 - val_loss: 43438.5245 -
val_mean_squared_error: 43438.5245
966 Epoch 467/1000
967 - 1s - loss: 37423.8110 - mean_squared_error: 37423.8110 - val_loss: 44761.1051 -
val_mean_squared_error: 44761.1051
968 Epoch 468/1000
969 - 1s - loss: 37547.5931 - mean_squared_error: 37547.5931 - val_loss: 44753.6783 -
val_mean_squared_error: 44753.6783
970 Epoch 469/1000
971 - 1s - loss: 37493.9426 - mean_squared_error: 37493.9426 - val_loss: 45406.2113 -
val_mean_squared_error: 45406.2113
972 Epoch 470/1000
973 - 1s - loss: 37574.7009 - mean_squared_error: 37574.7009 - val_loss: 44607.2885 -
val_mean_squared_error: 44607.2885
974 Epoch 471/1000
975 - 1s - loss: 37567.4543 - mean_squared_error: 37567.4543 - val_loss: 43578.4941 -
val_mean_squared_error: 43578.4941
976 Epoch 472/1000
977 - 1s - loss: 37548.6909 - mean_squared_error: 37548.6909 - val_loss: 43670.4656 -
val_mean_squared_error: 43670.4656
978 Epoch 473/1000
979 - 1s - loss: 37556.5527 - mean_squared_error: 37556.5527 - val_loss: 43279.8980 -
val_mean_squared_error: 43279.8980
980 Epoch 474/1000
981 - 1s - loss: 37440.3732 - mean_squared_error: 37440.3732 - val_loss: 44465.6354 -
val_mean_squared_error: 44465.6354
982 Epoch 475/1000
983 - 1s - loss: 37566.1996 - mean_squared_error: 37566.1996 - val_loss: 43910.3348 -
val_mean_squared_error: 43910.3348
```


File - run (1)

```
984 Epoch 476/1000
985   - 1s - loss: 37588.2869 - mean_squared_error: 37588.2869 - val_loss: 43234.5900 -
    val_mean_squared_error: 43234.5900
986 Epoch 477/1000
987   - 1s - loss: 37456.1827 - mean_squared_error: 37456.1827 - val_loss: 44432.2755 -
    val_mean_squared_error: 44432.2755
988 Epoch 478/1000
989   - 1s - loss: 37668.9118 - mean_squared_error: 37668.9118 - val_loss: 42601.1065 -
    val_mean_squared_error: 42601.1065
990 Epoch 479/1000
991   - 1s - loss: 37546.3173 - mean_squared_error: 37546.3173 - val_loss: 41949.5148 -
    val_mean_squared_error: 41949.5148
992 Epoch 480/1000
993   - 1s - loss: 37416.8306 - mean_squared_error: 37416.8306 - val_loss: 44380.5474 -
    val_mean_squared_error: 44380.5474
994 Epoch 481/1000
995   - 1s - loss: 37676.8073 - mean_squared_error: 37676.8073 - val_loss: 42395.1766 -
    val_mean_squared_error: 42395.1766
996 Epoch 482/1000
997   - 1s - loss: 37546.6421 - mean_squared_error: 37546.6421 - val_loss: 41806.4506 -
    val_mean_squared_error: 41806.4506
998 Epoch 483/1000
999   - 1s - loss: 37416.8580 - mean_squared_error: 37416.8580 - val_loss: 44164.5862 -
    val_mean_squared_error: 44164.5862
1000 Epoch 484/1000
1001   - 1s - loss: 37670.7565 - mean_squared_error: 37670.7565 - val_loss: 42289.9171 -
    val_mean_squared_error: 42289.9171
1002 Epoch 485/1000
1003   - 1s - loss: 37611.2318 - mean_squared_error: 37611.2318 - val_loss: 45977.3010 -
    val_mean_squared_error: 45977.3010
1004 Epoch 486/1000
1005   - 1s - loss: 37693.8818 - mean_squared_error: 37693.8818 - val_loss: 42299.2505 -
    val_mean_squared_error: 42299.2505
1006 Epoch 487/1000
1007   - 1s - loss: 37682.8183 - mean_squared_error: 37682.8183 - val_loss: 40517.1289 -
    val_mean_squared_error: 40517.1289
1008 Epoch 488/1000
1009   - 1s - loss: 37626.7683 - mean_squared_error: 37626.7683 - val_loss: 40017.5616 -
    val_mean_squared_error: 40017.5616
1010 Epoch 489/1000
1011   - 1s - loss: 37394.7443 - mean_squared_error: 37394.7443 - val_loss: 40914.0809 -
    val_mean_squared_error: 40914.0809
1012 Epoch 490/1000
1013   - 1s - loss: 37390.7372 - mean_squared_error: 37390.7372 - val_loss: 42446.4677 -
    val_mean_squared_error: 42446.4677
1014 Epoch 491/1000
1015   - 1s - loss: 37613.8697 - mean_squared_error: 37613.8697 - val_loss: 42383.8763 -
    val_mean_squared_error: 42383.8763
1016 Epoch 492/1000
1017   - 1s - loss: 37450.9429 - mean_squared_error: 37450.9429 - val_loss: 42673.7244 -
    val_mean_squared_error: 42673.7244
1018 Epoch 493/1000
1019   - 1s - loss: 37623.4474 - mean_squared_error: 37623.4474 - val_loss: 42515.6838 -
    val_mean_squared_error: 42515.6838
1020 Epoch 494/1000
1021   - 1s - loss: 37658.2773 - mean_squared_error: 37658.2773 - val_loss: 41203.8674 -
    val_mean_squared_error: 41203.8674
1022 Epoch 495/1000
1023   - 1s - loss: 37634.9617 - mean_squared_error: 37634.9617 - val_loss: 40451.5837 -
    val_mean_squared_error: 40451.5837
1024 Epoch 496/1000
```

File - run (1)

```
1025 - 1s - loss: 37407.8380 - mean_squared_error: 37407.8380 - val_loss: 41489.5592 -  
val_mean_squared_error: 41489.5592  
1026 Epoch 497/1000  
1027 - 1s - loss: 37416.7459 - mean_squared_error: 37416.7459 - val_loss: 42941.4500 -  
val_mean_squared_error: 42941.4500  
1028 Epoch 498/1000  
1029 - 1s - loss: 37637.6090 - mean_squared_error: 37637.6090 - val_loss: 42709.4799 -  
val_mean_squared_error: 42709.4799  
1030 Epoch 499/1000  
1031 - 1s - loss: 37671.1346 - mean_squared_error: 37671.1346 - val_loss: 41626.7191 -  
val_mean_squared_error: 41626.7191  
1032 Epoch 500/1000  
1033 - 1s - loss: 37648.1803 - mean_squared_error: 37648.1803 - val_loss: 40786.3002 -  
val_mean_squared_error: 40786.3002  
1034 Epoch 501/1000  
1035 - 1s - loss: 37440.2813 - mean_squared_error: 37440.2813 - val_loss: 42554.6958 -  
val_mean_squared_error: 42554.6958  
1036 Epoch 502/1000  
1037 - 1s - loss: 37598.3904 - mean_squared_error: 37598.3904 - val_loss: 41783.4951 -  
val_mean_squared_error: 41783.4951  
1038 Epoch 503/1000  
1039 - 1s - loss: 37688.9471 - mean_squared_error: 37688.9471 - val_loss: 40462.8799 -  
val_mean_squared_error: 40462.8799  
1040 Epoch 504/1000  
1041 - 1s - loss: 37429.6114 - mean_squared_error: 37429.6114 - val_loss: 42282.3745 -  
val_mean_squared_error: 42282.3745  
1042 Epoch 505/1000  
1043 - 1s - loss: 37644.1617 - mean_squared_error: 37644.1617 - val_loss: 41109.9227 -  
val_mean_squared_error: 41109.9227  
1044 Epoch 506/1000  
1045 - 1s - loss: 37669.1982 - mean_squared_error: 37669.1982 - val_loss: 40259.5293 -  
val_mean_squared_error: 40259.5293  
1046 Epoch 507/1000  
1047 - 1s - loss: 37406.4218 - mean_squared_error: 37406.4218 - val_loss: 42341.0033 -  
val_mean_squared_error: 42341.0033  
1048 Epoch 508/1000  
1049 - 1s - loss: 37518.5168 - mean_squared_error: 37518.5168 - val_loss: 42442.1460 -  
val_mean_squared_error: 42442.1460  
1050 Epoch 509/1000  
1051 - 1s - loss: 37503.8772 - mean_squared_error: 37503.8772 - val_loss: 42387.1694 -  
val_mean_squared_error: 42387.1694  
1052 Epoch 510/1000  
1053 - 1s - loss: 37627.0267 - mean_squared_error: 37627.0267 - val_loss: 41281.1370 -  
val_mean_squared_error: 41281.1370  
1054 Epoch 511/1000  
1055 - 1s - loss: 37691.6582 - mean_squared_error: 37691.6582 - val_loss: 40045.7438 -  
val_mean_squared_error: 40045.7438  
1056 Epoch 512/1000  
1057 - 1s - loss: 37630.9796 - mean_squared_error: 37630.9796 - val_loss: 39958.2800 -  
val_mean_squared_error: 39958.2800  
1058 Epoch 513/1000  
1059 - 1s - loss: 37612.8137 - mean_squared_error: 37612.8137 - val_loss: 39881.9116 -  
val_mean_squared_error: 39881.9116  
1060 Epoch 514/1000  
1061 - 1s - loss: 37594.6311 - mean_squared_error: 37594.6311 - val_loss: 39923.7449 -  
val_mean_squared_error: 39923.7449  
1062 Epoch 515/1000  
1063 - 1s - loss: 37585.2036 - mean_squared_error: 37585.2036 - val_loss: 40031.1365 -  
val_mean_squared_error: 40031.1365  
1064 Epoch 516/1000  
1065 - 1s - loss: 37567.4424 - mean_squared_error: 37567.4424 - val_loss: 40197.7391 -
```

File - run (1)

```
1065 val_mean_squared_error: 40197.7391
1066 Epoch 517/1000
1067 - 1s - loss: 37392.5599 - mean_squared_error: 37392.5599 - val_loss: 42383.5943 -
val_mean_squared_error: 42383.5943
1068 Epoch 518/1000
1069 - 1s - loss: 37503.4077 - mean_squared_error: 37503.4077 - val_loss: 43291.0106 -
val_mean_squared_error: 43291.0106
1070 Epoch 519/1000
1071 - 1s - loss: 37675.9934 - mean_squared_error: 37675.9934 - val_loss: 41873.9454 -
val_mean_squared_error: 41873.9454
1072 Epoch 520/1000
1073 - 1s - loss: 37481.7640 - mean_squared_error: 37481.7640 - val_loss: 42561.0603 -
val_mean_squared_error: 42561.0603
1074 Epoch 521/1000
1075 - 1s - loss: 37661.0692 - mean_squared_error: 37661.0692 - val_loss: 41750.6701 -
val_mean_squared_error: 41750.6701
1076 Epoch 522/1000
1077 - 1s - loss: 37605.0384 - mean_squared_error: 37605.0384 - val_loss: 41240.2766 -
val_mean_squared_error: 41240.2766
1078 Epoch 523/1000
1079 - 1s - loss: 37472.9162 - mean_squared_error: 37472.9162 - val_loss: 42125.6533 -
val_mean_squared_error: 42125.6533
1080 Epoch 524/1000
1081 - 1s - loss: 37487.7408 - mean_squared_error: 37487.7408 - val_loss: 43009.3913 -
val_mean_squared_error: 43009.3913
1082 Epoch 525/1000
1083 - 1s - loss: 37709.1547 - mean_squared_error: 37709.1547 - val_loss: 41590.8663 -
val_mean_squared_error: 41590.8663
1084 Epoch 526/1000
1085 - 1s - loss: 37619.4494 - mean_squared_error: 37619.4494 - val_loss: 41179.4183 -
val_mean_squared_error: 41179.4183
1086 Epoch 527/1000
1087 - 1s - loss: 37598.5721 - mean_squared_error: 37598.5721 - val_loss: 40942.3707 -
val_mean_squared_error: 40942.3707
1088 Epoch 528/1000
1089 - 1s - loss: 37592.4899 - mean_squared_error: 37592.4899 - val_loss: 40778.7009 -
val_mean_squared_error: 40778.7009
1090 Epoch 529/1000
1091 - 1s - loss: 37461.3236 - mean_squared_error: 37461.3236 - val_loss: 41823.1121 -
val_mean_squared_error: 41823.1121
1092 Epoch 530/1000
1093 - 1s - loss: 37659.3155 - mean_squared_error: 37659.3155 - val_loss: 41393.1817 -
val_mean_squared_error: 41393.1817
1094 Epoch 531/1000
1095 - 1s - loss: 37588.1231 - mean_squared_error: 37588.1231 - val_loss: 41184.1892 -
val_mean_squared_error: 41184.1892
1096 Epoch 532/1000
1097 - 1s - loss: 37579.8246 - mean_squared_error: 37579.8246 - val_loss: 40708.6200 -
val_mean_squared_error: 40708.6200
1098 Epoch 533/1000
1099 - 1s - loss: 37570.0701 - mean_squared_error: 37570.0701 - val_loss: 40726.2211 -
val_mean_squared_error: 40726.2211
1100 Epoch 534/1000
1101 - 1s - loss: 37561.4938 - mean_squared_error: 37561.4938 - val_loss: 40850.7150 -
val_mean_squared_error: 40850.7150
1102 Epoch 535/1000
1103 - 1s - loss: 37559.9036 - mean_squared_error: 37559.9036 - val_loss: 40955.5026 -
val_mean_squared_error: 40955.5026
1104 Epoch 536/1000
1105 - 1s - loss: 37558.0864 - mean_squared_error: 37558.0864 - val_loss: 41078.5832 -
val_mean_squared_error: 41078.5832
```

File - run (1)

```
1106 Epoch 537/1000
1107   - 1s - loss: 37557.5253 - mean_squared_error: 37557.5253 - val_loss: 41209.2158 -
    val_mean_squared_error: 41209.2158
1108 Epoch 538/1000
1109   - 1s - loss: 37557.6796 - mean_squared_error: 37557.6796 - val_loss: 41344.0829 -
    val_mean_squared_error: 41344.0829
1110 Epoch 539/1000
1111   - 1s - loss: 37558.4244 - mean_squared_error: 37558.4244 - val_loss: 41478.2196 -
    val_mean_squared_error: 41478.2196
1112 Epoch 540/1000
1113   - 1s - loss: 37559.5639 - mean_squared_error: 37559.5639 - val_loss: 41607.9109 -
    val_mean_squared_error: 41607.9109
1114 Epoch 541/1000
1115   - 1s - loss: 37560.9283 - mean_squared_error: 37560.9283 - val_loss: 41730.8283 -
    val_mean_squared_error: 41730.8283
1116 Epoch 542/1000
1117   - 1s - loss: 37562.4115 - mean_squared_error: 37562.4115 - val_loss: 41845.3853 -
    val_mean_squared_error: 41845.3853
1118 Epoch 543/1000
1119   - 1s - loss: 37563.9178 - mean_squared_error: 37563.9178 - val_loss: 41950.9136 -
    val_mean_squared_error: 41950.9136
1120 Epoch 544/1000
1121   - 1s - loss: 37644.2691 - mean_squared_error: 37644.2691 - val_loss: 42089.7645 -
    val_mean_squared_error: 42089.7645
1122 Epoch 545/1000
1123   - 1s - loss: 37629.8496 - mean_squared_error: 37629.8496 - val_loss: 42270.4443 -
    val_mean_squared_error: 42270.4443
1124 Epoch 546/1000
1125   - 1s - loss: 37561.0961 - mean_squared_error: 37561.0961 - val_loss: 42195.9119 -
    val_mean_squared_error: 42195.9119
1126 Epoch 547/1000
1127   - 1s - loss: 37569.1877 - mean_squared_error: 37569.1877 - val_loss: 42145.4470 -
    val_mean_squared_error: 42145.4470
1128 Epoch 548/1000
1129   - 1s - loss: 37568.0759 - mean_squared_error: 37568.0759 - val_loss: 42217.2558 -
    val_mean_squared_error: 42217.2558
1130 Epoch 549/1000
1131   - 1s - loss: 37571.1715 - mean_squared_error: 37571.1715 - val_loss: 42262.8849 -
    val_mean_squared_error: 42262.8849
1132 Epoch 550/1000
1133   - 1s - loss: 37641.8329 - mean_squared_error: 37641.8329 - val_loss: 42436.4555 -
    val_mean_squared_error: 42436.4555
1134 Epoch 551/1000
1135   - 1s - loss: 37562.2040 - mean_squared_error: 37562.2040 - val_loss: 42479.4898 -
    val_mean_squared_error: 42479.4898
1136 Epoch 552/1000
1137   - 1s - loss: 37574.1801 - mean_squared_error: 37574.1801 - val_loss: 42390.7280 -
    val_mean_squared_error: 42390.7280
1138 Epoch 553/1000
1139   - 1s - loss: 37640.0522 - mean_squared_error: 37640.0522 - val_loss: 42683.2952 -
    val_mean_squared_error: 42683.2952
1140 Epoch 554/1000
1141   - 1s - loss: 37615.7737 - mean_squared_error: 37615.7737 - val_loss: 42743.3835 -
    val_mean_squared_error: 42743.3835
1142 Epoch 555/1000
1143   - 1s - loss: 37545.6166 - mean_squared_error: 37545.6166 - val_loss: 43929.5894 -
    val_mean_squared_error: 43929.5894
1144 Epoch 556/1000
1145   - 1s - loss: 37616.3590 - mean_squared_error: 37616.3590 - val_loss: 43227.6149 -
    val_mean_squared_error: 43227.6149
1146 Epoch 557/1000
```

File - run (1)

```
1147 - 1s - loss: 37644.2694 - mean_squared_error: 37644.2694 - val_loss: 43012.3872 -  
val_mean_squared_error: 43012.3872  
1148 Epoch 558/1000  
1149 - 1s - loss: 37631.2106 - mean_squared_error: 37631.2106 - val_loss: 42915.8533 -  
val_mean_squared_error: 42915.8533  
1150 Epoch 559/1000  
1151 - 1s - loss: 37631.0742 - mean_squared_error: 37631.0742 - val_loss: 42720.2384 -  
val_mean_squared_error: 42720.2384  
1152 Epoch 560/1000  
1153 - 1s - loss: 37624.7024 - mean_squared_error: 37624.7024 - val_loss: 42638.3903 -  
val_mean_squared_error: 42638.3903  
1154 Epoch 561/1000  
1155 - 1s - loss: 37621.1859 - mean_squared_error: 37621.1859 - val_loss: 42594.3295 -  
val_mean_squared_error: 42594.3295  
1156 Epoch 562/1000  
1157 - 1s - loss: 37618.1094 - mean_squared_error: 37618.1094 - val_loss: 42582.8458 -  
val_mean_squared_error: 42582.8458  
1158 Epoch 563/1000  
1159 - 1s - loss: 37615.7968 - mean_squared_error: 37615.7968 - val_loss: 42590.8763 -  
val_mean_squared_error: 42590.8763  
1160 Epoch 564/1000  
1161 - 1s - loss: 37457.9240 - mean_squared_error: 37457.9240 - val_loss: 43600.9583 -  
val_mean_squared_error: 43600.9583  
1162 Epoch 565/1000  
1163 - 1s - loss: 37452.5754 - mean_squared_error: 37452.5754 - val_loss: 44427.7857 -  
val_mean_squared_error: 44427.7857  
1164 Epoch 566/1000  
1165 - 1s - loss: 37582.3563 - mean_squared_error: 37582.3563 - val_loss: 43721.9525 -  
val_mean_squared_error: 43721.9525  
1166 Epoch 567/1000  
1167 - 1s - loss: 37596.9756 - mean_squared_error: 37596.9756 - val_loss: 43058.7561 -  
val_mean_squared_error: 43058.7561  
1168 Epoch 568/1000  
1169 - 1s - loss: 37643.6873 - mean_squared_error: 37643.6873 - val_loss: 43243.6044 -  
val_mean_squared_error: 43243.6044  
1170 Epoch 569/1000  
1171 - 1s - loss: 37567.8302 - mean_squared_error: 37567.8302 - val_loss: 42385.3372 -  
val_mean_squared_error: 42385.3372  
1172 Epoch 570/1000  
1173 - 1s - loss: 37545.2759 - mean_squared_error: 37545.2759 - val_loss: 42978.8371 -  
val_mean_squared_error: 42978.8371  
1174 Epoch 571/1000  
1175 - 1s - loss: 37640.4285 - mean_squared_error: 37640.4285 - val_loss: 42962.6664 -  
val_mean_squared_error: 42962.6664  
1176 Epoch 572/1000  
1177 - 1s - loss: 37630.1885 - mean_squared_error: 37630.1885 - val_loss: 42948.9172 -  
val_mean_squared_error: 42948.9172  
1178 Epoch 573/1000  
1179 - 1s - loss: 37627.7738 - mean_squared_error: 37627.7738 - val_loss: 42851.4582 -  
val_mean_squared_error: 42851.4582  
1180 Epoch 574/1000  
1181 - 1s - loss: 37465.5343 - mean_squared_error: 37465.5343 - val_loss: 43799.9303 -  
val_mean_squared_error: 43799.9303  
1182 Epoch 575/1000  
1183 - 1s - loss: 37567.6018 - mean_squared_error: 37567.6018 - val_loss: 42978.9176 -  
val_mean_squared_error: 42978.9176  
1184 Epoch 576/1000  
1185 - 1s - loss: 37584.2419 - mean_squared_error: 37584.2419 - val_loss: 43203.2294 -  
val_mean_squared_error: 43203.2294  
1186 Epoch 577/1000  
1187 - 1s - loss: 37557.0577 - mean_squared_error: 37557.0577 - val_loss: 42686.8418 -
```

File - run (1)

```
1187 val_mean_squared_error: 42686.8418
1188 Epoch 578/1000
1189 - 1s - loss: 37564.5630 - mean_squared_error: 37564.5630 - val_loss: 42773.8465 -
val_mean_squared_error: 42773.8465
1190 Epoch 579/1000
1191 - 1s - loss: 37563.4036 - mean_squared_error: 37563.4036 - val_loss: 42848.3102 -
val_mean_squared_error: 42848.3102
1192 Epoch 580/1000
1193 - 1s - loss: 37563.8162 - mean_squared_error: 37563.8162 - val_loss: 42886.6680 -
val_mean_squared_error: 42886.6680
1194 Epoch 581/1000
1195 - 1s - loss: 37563.5085 - mean_squared_error: 37563.5085 - val_loss: 42925.0325 -
val_mean_squared_error: 42925.0325
1196 Epoch 582/1000
1197 - 1s - loss: 37563.5004 - mean_squared_error: 37563.5004 - val_loss: 42964.1264 -
val_mean_squared_error: 42964.1264
1198 Epoch 583/1000
1199 - 1s - loss: 37563.6194 - mean_squared_error: 37563.6194 - val_loss: 43004.7848 -
val_mean_squared_error: 43004.7848
1200 Epoch 584/1000
1201 - 1s - loss: 37541.3774 - mean_squared_error: 37541.3774 - val_loss: 42997.6462 -
val_mean_squared_error: 42997.6462
1202 Epoch 585/1000
1203 - 1s - loss: 37557.2030 - mean_squared_error: 37557.2030 - val_loss: 43333.4240 -
val_mean_squared_error: 43333.4240
1204 Epoch 586/1000
1205 - 1s - loss: 37542.7227 - mean_squared_error: 37542.7227 - val_loss: 43400.6258 -
val_mean_squared_error: 43400.6258
1206 Epoch 587/1000
1207 - 1s - loss: 37536.8488 - mean_squared_error: 37536.8488 - val_loss: 43587.7427 -
val_mean_squared_error: 43587.7427
1208 Epoch 588/1000
1209 - 1s - loss: 37538.9948 - mean_squared_error: 37538.9948 - val_loss: 43695.5897 -
val_mean_squared_error: 43695.5897
1210 Epoch 589/1000
1211 - 1s - loss: 37538.4976 - mean_squared_error: 37538.4976 - val_loss: 43798.3070 -
val_mean_squared_error: 43798.3070
1212 Epoch 590/1000
1213 - 1s - loss: 37538.7068 - mean_squared_error: 37538.7068 - val_loss: 43881.0596 -
val_mean_squared_error: 43881.0596
1214 Epoch 591/1000
1215 - 1s - loss: 37538.6819 - mean_squared_error: 37538.6819 - val_loss: 43952.4269 -
val_mean_squared_error: 43952.4269
1216 Epoch 592/1000
1217 - 1s - loss: 37533.2584 - mean_squared_error: 37533.2584 - val_loss: 44097.8506 -
val_mean_squared_error: 44097.8506
1218 Epoch 593/1000
1219 - 1s - loss: 37522.3653 - mean_squared_error: 37522.3653 - val_loss: 44193.8574 -
val_mean_squared_error: 44193.8574
1220 Epoch 594/1000
1221 - 1s - loss: 37522.1360 - mean_squared_error: 37522.1360 - val_loss: 44238.3083 -
val_mean_squared_error: 44238.3083
1222 Epoch 595/1000
1223 - 1s - loss: 37521.1610 - mean_squared_error: 37521.1610 - val_loss: 44266.3138 -
val_mean_squared_error: 44266.3138
1224 Epoch 596/1000
1225 - 1s - loss: 37519.8511 - mean_squared_error: 37519.8511 - val_loss: 44288.6202 -
val_mean_squared_error: 44288.6202
1226 Epoch 597/1000
1227 - 1s - loss: 37518.5925 - mean_squared_error: 37518.5925 - val_loss: 44305.9029 -
val_mean_squared_error: 44305.9029
```

File - run (1)

```
1228 Epoch 598/1000
1229   - 1s - loss: 37517.3088 - mean_squared_error: 37517.3088 - val_loss: 44321.0243 -
    val_mean_squared_error: 44321.0243
1230 Epoch 599/1000
1231   - 1s - loss: 37516.0932 - mean_squared_error: 37516.0932 - val_loss: 44335.3403 -
    val_mean_squared_error: 44335.3403
1232 Epoch 600/1000
1233   - 1s - loss: 37514.9257 - mean_squared_error: 37514.9257 - val_loss: 44349.0988 -
    val_mean_squared_error: 44349.0988
1234 Epoch 601/1000
1235   - 1s - loss: 37536.1855 - mean_squared_error: 37536.1855 - val_loss: 44082.9574 -
    val_mean_squared_error: 44082.9574
1236 Epoch 602/1000
1237   - 1s - loss: 37532.9702 - mean_squared_error: 37532.9702 - val_loss: 43819.6061 -
    val_mean_squared_error: 43819.6061
1238 Epoch 603/1000
1239   - 1s - loss: 37521.4713 - mean_squared_error: 37521.4713 - val_loss: 43775.9371 -
    val_mean_squared_error: 43775.9371
1240 Epoch 604/1000
1241   - 1s - loss: 37518.1397 - mean_squared_error: 37518.1397 - val_loss: 43738.2727 -
    val_mean_squared_error: 43738.2727
1242 Epoch 605/1000
1243   - 1s - loss: 37514.5577 - mean_squared_error: 37514.5577 - val_loss: 43733.5658 -
    val_mean_squared_error: 43733.5658
1244 Epoch 606/1000
1245   - 1s - loss: 37512.0472 - mean_squared_error: 37512.0472 - val_loss: 43745.5236 -
    val_mean_squared_error: 43745.5236
1246 Epoch 607/1000
1247   - 1s - loss: 37510.1141 - mean_squared_error: 37510.1141 - val_loss: 43770.1512 -
    val_mean_squared_error: 43770.1512
1248 Epoch 608/1000
1249   - 1s - loss: 37508.6962 - mean_squared_error: 37508.6962 - val_loss: 43802.6023 -
    val_mean_squared_error: 43802.6023
1250 Epoch 609/1000
1251   - 1s - loss: 37507.6430 - mean_squared_error: 37507.6430 - val_loss: 43839.2497 -
    val_mean_squared_error: 43839.2497
1252 Epoch 610/1000
1253   - 1s - loss: 37506.8410 - mean_squared_error: 37506.8410 - val_loss: 43877.5858 -
    val_mean_squared_error: 43877.5858
1254 Epoch 611/1000
1255   - 1s - loss: 37506.2407 - mean_squared_error: 37506.2407 - val_loss: 43916.0048 -
    val_mean_squared_error: 43916.0048
1256 Epoch 612/1000
1257   - 1s - loss: 37505.7525 - mean_squared_error: 37505.7525 - val_loss: 43953.2228 -
    val_mean_squared_error: 43953.2228
1258 Epoch 613/1000
1259   - 1s - loss: 37505.3677 - mean_squared_error: 37505.3677 - val_loss: 43988.7679 -
    val_mean_squared_error: 43988.7679
1260 Epoch 614/1000
1261   - 1s - loss: 37505.0151 - mean_squared_error: 37505.0151 - val_loss: 44022.2204 -
    val_mean_squared_error: 44022.2204
1262 Epoch 615/1000
1263   - 1s - loss: 37504.6735 - mean_squared_error: 37504.6735 - val_loss: 44053.3490 -
    val_mean_squared_error: 44053.3490
1264 Epoch 616/1000
1265   - 1s - loss: 37504.3449 - mean_squared_error: 37504.3449 - val_loss: 44082.3476 -
    val_mean_squared_error: 44082.3476
1266 Epoch 617/1000
1267   - 1s - loss: 37504.0190 - mean_squared_error: 37504.0190 - val_loss: 44109.3269 -
    val_mean_squared_error: 44109.3269
1268 Epoch 618/1000
```

File - run (1)

```
1269 - 1s - loss: 37503.6868 - mean_squared_error: 37503.6868 - val_loss: 44134.4517 -  
val_mean_squared_error: 44134.4517  
1270 Epoch 619/1000  
1271 - 1s - loss: 37503.3608 - mean_squared_error: 37503.3608 - val_loss: 44157.9496 -  
val_mean_squared_error: 44157.9496  
1272 Epoch 620/1000  
1273 - 1s - loss: 37502.9929 - mean_squared_error: 37502.9929 - val_loss: 44179.9490 -  
val_mean_squared_error: 44179.9490  
1274 Epoch 621/1000  
1275 - 1s - loss: 37502.6277 - mean_squared_error: 37502.6277 - val_loss: 44200.8266 -  
val_mean_squared_error: 44200.8266  
1276 Epoch 622/1000  
1277 - 1s - loss: 37502.2371 - mean_squared_error: 37502.2371 - val_loss: 44220.4480 -  
val_mean_squared_error: 44220.4480  
1278 Epoch 623/1000  
1279 - 1s - loss: 37501.8413 - mean_squared_error: 37501.8413 - val_loss: 44239.1506 -  
val_mean_squared_error: 44239.1506  
1280 Epoch 624/1000  
1281 - 1s - loss: 37501.2823 - mean_squared_error: 37501.2823 - val_loss: 44256.5550 -  
val_mean_squared_error: 44256.5550  
1282 Epoch 625/1000  
1283 - 1s - loss: 37500.8943 - mean_squared_error: 37500.8943 - val_loss: 44273.1629 -  
val_mean_squared_error: 44273.1629  
1284 Epoch 626/1000  
1285 - 1s - loss: 37500.4633 - mean_squared_error: 37500.4633 - val_loss: 44289.7399 -  
val_mean_squared_error: 44289.7399  
1286 Epoch 627/1000  
1287 - 1s - loss: 37500.0461 - mean_squared_error: 37500.0461 - val_loss: 44305.6015 -  
val_mean_squared_error: 44305.6015  
1288 Epoch 628/1000  
1289 - 1s - loss: 37499.6117 - mean_squared_error: 37499.6117 - val_loss: 44321.0888 -  
val_mean_squared_error: 44321.0888  
1290 Epoch 629/1000  
1291 - 1s - loss: 37499.1842 - mean_squared_error: 37499.1842 - val_loss: 44336.1873 -  
val_mean_squared_error: 44336.1873  
1292 Epoch 630/1000  
1293 - 1s - loss: 37498.7390 - mean_squared_error: 37498.7390 - val_loss: 44350.7979 -  
val_mean_squared_error: 44350.7979  
1294 Epoch 631/1000  
1295 - 1s - loss: 37498.2861 - mean_squared_error: 37498.2861 - val_loss: 44365.1006 -  
val_mean_squared_error: 44365.1006  
1296 Epoch 632/1000  
1297 - 1s - loss: 37497.8428 - mean_squared_error: 37497.8428 - val_loss: 44378.9997 -  
val_mean_squared_error: 44378.9997  
1298 Epoch 633/1000  
1299 - 1s - loss: 37497.3753 - mean_squared_error: 37497.3753 - val_loss: 44392.4710 -  
val_mean_squared_error: 44392.4710  
1300 Epoch 634/1000  
1301 - 1s - loss: 37496.9210 - mean_squared_error: 37496.9210 - val_loss: 44405.7022 -  
val_mean_squared_error: 44405.7022  
1302 Epoch 635/1000  
1303 - 1s - loss: 37496.4565 - mean_squared_error: 37496.4565 - val_loss: 44418.5813 -  
val_mean_squared_error: 44418.5813  
1304 Epoch 636/1000  
1305 - 1s - loss: 37495.9762 - mean_squared_error: 37495.9762 - val_loss: 44431.1486 -  
val_mean_squared_error: 44431.1486  
1306 Epoch 637/1000  
1307 - 1s - loss: 37495.5106 - mean_squared_error: 37495.5106 - val_loss: 44443.3993 -  
val_mean_squared_error: 44443.3993  
1308 Epoch 638/1000  
1309 - 1s - loss: 37495.0395 - mean_squared_error: 37495.0395 - val_loss: 44455.3813 -
```


File - run (1)

```
1309 val_mean_squared_error: 44455.3813
1310 Epoch 639/1000
1311 - 1s - loss: 37494.3030 - mean_squared_error: 37494.3030 - val_loss: 44462.9657 -
val_mean_squared_error: 44462.9657
1312 Epoch 640/1000
1313 - 1s - loss: 37494.5080 - mean_squared_error: 37494.5080 - val_loss: 44465.6233 -
val_mean_squared_error: 44465.6233
1314 Epoch 641/1000
1315 - 1s - loss: 37493.8092 - mean_squared_error: 37493.8092 - val_loss: 44476.4239 -
val_mean_squared_error: 44476.4239
1316 Epoch 642/1000
1317 - 1s - loss: 37493.3165 - mean_squared_error: 37493.3165 - val_loss: 44487.2890 -
val_mean_squared_error: 44487.2890
1318 Epoch 643/1000
1319 - 1s - loss: 37492.8210 - mean_squared_error: 37492.8210 - val_loss: 44498.4371 -
val_mean_squared_error: 44498.4371
1320 Epoch 644/1000
1321 - 1s - loss: 37492.3541 - mean_squared_error: 37492.3541 - val_loss: 44509.0063 -
val_mean_squared_error: 44509.0063
1322 Epoch 645/1000
1323 - 1s - loss: 37491.8748 - mean_squared_error: 37491.8748 - val_loss: 44519.1846 -
val_mean_squared_error: 44519.1846
1324 Epoch 646/1000
1325 - 1s - loss: 37491.4030 - mean_squared_error: 37491.4030 - val_loss: 44528.9653 -
val_mean_squared_error: 44528.9653
1326 Epoch 647/1000
1327 - 1s - loss: 37490.9118 - mean_squared_error: 37490.9118 - val_loss: 44538.4450 -
val_mean_squared_error: 44538.4450
1328 Epoch 648/1000
1329 - 1s - loss: 37490.4420 - mean_squared_error: 37490.4420 - val_loss: 44547.8332 -
val_mean_squared_error: 44547.8332
1330 Epoch 649/1000
1331 - 1s - loss: 37489.9819 - mean_squared_error: 37489.9819 - val_loss: 44556.9359 -
val_mean_squared_error: 44556.9359
1332 Epoch 650/1000
1333 - 1s - loss: 37489.5264 - mean_squared_error: 37489.5264 - val_loss: 44565.5334 -
val_mean_squared_error: 44565.5334
1334 Epoch 651/1000
1335 - 1s - loss: 37489.0645 - mean_squared_error: 37489.0645 - val_loss: 44573.9585 -
val_mean_squared_error: 44573.9585
1336 Epoch 652/1000
1337 - 1s - loss: 37488.6079 - mean_squared_error: 37488.6079 - val_loss: 44582.2724 -
val_mean_squared_error: 44582.2724
1338 Epoch 653/1000
1339 - 1s - loss: 37487.3391 - mean_squared_error: 37487.3391 - val_loss: 44478.1654 -
val_mean_squared_error: 44478.1654
1340 Epoch 654/1000
1341 - 1s - loss: 37484.4726 - mean_squared_error: 37484.4726 - val_loss: 44470.8159 -
val_mean_squared_error: 44470.8159
1342 Epoch 655/1000
1343 - 1s - loss: 37483.4283 - mean_squared_error: 37483.4283 - val_loss: 44501.4318 -
val_mean_squared_error: 44501.4318
1344 Epoch 656/1000
1345 - 1s - loss: 37483.7055 - mean_squared_error: 37483.7055 - val_loss: 44518.9831 -
val_mean_squared_error: 44518.9831
1346 Epoch 657/1000
1347 - 1s - loss: 37483.4367 - mean_squared_error: 37483.4367 - val_loss: 44526.4026 -
val_mean_squared_error: 44526.4026
1348 Epoch 658/1000
1349 - 1s - loss: 37472.7199 - mean_squared_error: 37472.7199 - val_loss: 44548.5086 -
val_mean_squared_error: 44548.5086
```

File - run (1)

```
1350 Epoch 659/1000
1351   - 1s - loss: 37470.7222 - mean_squared_error: 37470.7222 - val_loss: 44564.8161 -
    val_mean_squared_error: 44564.8161
1352 Epoch 660/1000
1353   - 1s - loss: 37455.5850 - mean_squared_error: 37455.5850 - val_loss: 44804.4932 -
    val_mean_squared_error: 44804.4932
1354 Epoch 661/1000
1355   - 1s - loss: 37483.4372 - mean_squared_error: 37483.4372 - val_loss: 45150.3844 -
    val_mean_squared_error: 45150.3844
1356 Epoch 662/1000
1357   - 1s - loss: 37416.4956 - mean_squared_error: 37416.4956 - val_loss: 45070.4512 -
    val_mean_squared_error: 45070.4512
1358 Epoch 663/1000
1359   - 1s - loss: 37405.7922 - mean_squared_error: 37405.7922 - val_loss: 44968.4173 -
    val_mean_squared_error: 44968.4173
1360 Epoch 664/1000
1361   - 1s - loss: 37465.9999 - mean_squared_error: 37465.9999 - val_loss: 44917.0187 -
    val_mean_squared_error: 44917.0187
1362 Epoch 665/1000
1363   - 1s - loss: 37477.6799 - mean_squared_error: 37477.6799 - val_loss: 45256.0221 -
    val_mean_squared_error: 45256.0221
1364 Epoch 666/1000
1365   - 1s - loss: 37448.4962 - mean_squared_error: 37448.4962 - val_loss: 45397.5913 -
    val_mean_squared_error: 45397.5913
1366 Epoch 667/1000
1367   - 1s - loss: 37369.3544 - mean_squared_error: 37369.3544 - val_loss: 44881.5441 -
    val_mean_squared_error: 44881.5441
1368 Epoch 668/1000
1369   - 1s - loss: 37470.7541 - mean_squared_error: 37470.7541 - val_loss: 45308.8249 -
    val_mean_squared_error: 45308.8249
1370 Epoch 669/1000
1371   - 1s - loss: 37448.2904 - mean_squared_error: 37448.2904 - val_loss: 45400.4744 -
    val_mean_squared_error: 45400.4744
1372 Epoch 670/1000
1373   - 1s - loss: 37428.5326 - mean_squared_error: 37428.5326 - val_loss: 44874.2755 -
    val_mean_squared_error: 44874.2755
1374 Epoch 671/1000
1375   - 1s - loss: 37460.1221 - mean_squared_error: 37460.1221 - val_loss: 45185.1989 -
    val_mean_squared_error: 45185.1989
1376 Epoch 672/1000
1377   - 1s - loss: 37436.0512 - mean_squared_error: 37436.0512 - val_loss: 45248.1130 -
    val_mean_squared_error: 45248.1130
1378 Epoch 673/1000
1379   - 1s - loss: 37437.9856 - mean_squared_error: 37437.9856 - val_loss: 45162.0028 -
    val_mean_squared_error: 45162.0028
1380 Epoch 674/1000
1381   - 1s - loss: 37427.0703 - mean_squared_error: 37427.0703 - val_loss: 45118.9912 -
    val_mean_squared_error: 45118.9912
1382 Epoch 675/1000
1383   - 1s - loss: 37411.8214 - mean_squared_error: 37411.8214 - val_loss: 45202.0903 -
    val_mean_squared_error: 45202.0903
1384 Epoch 676/1000
1385   - 1s - loss: 37453.5246 - mean_squared_error: 37453.5246 - val_loss: 44998.0112 -
    val_mean_squared_error: 44998.0112
1386 Epoch 677/1000
1387   - 1s - loss: 37366.4792 - mean_squared_error: 37366.4792 - val_loss: 45147.3390 -
    val_mean_squared_error: 45147.3390
1388 Epoch 678/1000
1389   - 1s - loss: 37428.8515 - mean_squared_error: 37428.8515 - val_loss: 44988.2328 -
    val_mean_squared_error: 44988.2328
1390 Epoch 679/1000
```

File - run (1)

```
1391 - 1s - loss: 37382.0767 - mean_squared_error: 37382.0767 - val_loss: 44863.0018 -  
val_mean_squared_error: 44863.0018  
1392 Epoch 680/1000  
1393 - 1s - loss: 37393.7409 - mean_squared_error: 37393.7409 - val_loss: 44621.8432 -  
val_mean_squared_error: 44621.8432  
1394 Epoch 681/1000  
1395 - 1s - loss: 37412.2523 - mean_squared_error: 37412.2523 - val_loss: 44493.5060 -  
val_mean_squared_error: 44493.5060  
1396 Epoch 682/1000  
1397 - 1s - loss: 37468.9268 - mean_squared_error: 37468.9268 - val_loss: 44898.7231 -  
val_mean_squared_error: 44898.7231  
1398 Epoch 683/1000  
1399 - 1s - loss: 37436.0402 - mean_squared_error: 37436.0402 - val_loss: 44230.1947 -  
val_mean_squared_error: 44230.1947  
1400 Epoch 684/1000  
1401 - 1s - loss: 37483.5785 - mean_squared_error: 37483.5785 - val_loss: 44644.6075 -  
val_mean_squared_error: 44644.6075  
1402 Epoch 685/1000  
1403 - 1s - loss: 37378.6334 - mean_squared_error: 37378.6334 - val_loss: 44745.6601 -  
val_mean_squared_error: 44745.6601  
1404 Epoch 686/1000  
1405 - 1s - loss: 37389.2626 - mean_squared_error: 37389.2626 - val_loss: 44415.9915 -  
val_mean_squared_error: 44415.9915  
1406 Epoch 687/1000  
1407 - 1s - loss: 37494.9614 - mean_squared_error: 37494.9614 - val_loss: 44189.8139 -  
val_mean_squared_error: 44189.8139  
1408 Epoch 688/1000  
1409 - 1s - loss: 37455.4539 - mean_squared_error: 37455.4539 - val_loss: 44627.2598 -  
val_mean_squared_error: 44627.2598  
1410 Epoch 689/1000  
1411 - 1s - loss: 37387.5368 - mean_squared_error: 37387.5368 - val_loss: 44331.9736 -  
val_mean_squared_error: 44331.9736  
1412 Epoch 690/1000  
1413 - 1s - loss: 37429.4481 - mean_squared_error: 37429.4481 - val_loss: 43932.9393 -  
val_mean_squared_error: 43932.9393  
1414 Epoch 691/1000  
1415 - 1s - loss: 37430.8483 - mean_squared_error: 37430.8483 - val_loss: 43775.6011 -  
val_mean_squared_error: 43775.6011  
1416 Epoch 692/1000  
1417 - 1s - loss: 37449.5599 - mean_squared_error: 37449.5599 - val_loss: 43471.3910 -  
val_mean_squared_error: 43471.3910  
1418 Epoch 693/1000  
1419 - 1s - loss: 37412.6586 - mean_squared_error: 37412.6586 - val_loss: 43757.3271 -  
val_mean_squared_error: 43757.3271  
1420 Epoch 694/1000  
1421 - 1s - loss: 37435.0860 - mean_squared_error: 37435.0860 - val_loss: 43674.3604 -  
val_mean_squared_error: 43674.3604  
1422 Epoch 695/1000  
1423 - 1s - loss: 37457.4549 - mean_squared_error: 37457.4549 - val_loss: 43822.9899 -  
val_mean_squared_error: 43822.9899  
1424 Epoch 696/1000  
1425 - 1s - loss: 37414.4464 - mean_squared_error: 37414.4464 - val_loss: 44464.9878 -  
val_mean_squared_error: 44464.9878  
1426 Epoch 697/1000  
1427 - 1s - loss: 37439.2374 - mean_squared_error: 37439.2374 - val_loss: 44012.4185 -  
val_mean_squared_error: 44012.4185  
1428 Epoch 698/1000  
1429 - 1s - loss: 37446.4355 - mean_squared_error: 37446.4355 - val_loss: 43516.3493 -  
val_mean_squared_error: 43516.3493  
1430 Epoch 699/1000  
1431 - 1s - loss: 37459.1386 - mean_squared_error: 37459.1386 - val_loss: 43240.1305 -
```

File - run (1)

```
1431 val_mean_squared_error: 43240.1305
1432 Epoch 700/1000
1433 - 1s - loss: 37421.1504 - mean_squared_error: 37421.1504 - val_loss: 43435.1207 -
val_mean_squared_error: 43435.1207
1434 Epoch 701/1000
1435 - 1s - loss: 37438.3537 - mean_squared_error: 37438.3537 - val_loss: 43332.1457 -
val_mean_squared_error: 43332.1457
1436 Epoch 702/1000
1437 - 1s - loss: 37444.9819 - mean_squared_error: 37444.9819 - val_loss: 43720.8252 -
val_mean_squared_error: 43720.8252
1438 Epoch 703/1000
1439 - 1s - loss: 37432.2559 - mean_squared_error: 37432.2559 - val_loss: 43608.9372 -
val_mean_squared_error: 43608.9372
1440 Epoch 704/1000
1441 - 1s - loss: 37442.1297 - mean_squared_error: 37442.1297 - val_loss: 43469.0408 -
val_mean_squared_error: 43469.0408
1442 Epoch 705/1000
1443 - 1s - loss: 37446.4247 - mean_squared_error: 37446.4247 - val_loss: 43826.5333 -
val_mean_squared_error: 43826.5333
1444 Epoch 706/1000
1445 - 1s - loss: 37436.5968 - mean_squared_error: 37436.5968 - val_loss: 43654.3220 -
val_mean_squared_error: 43654.3220
1446 Epoch 707/1000
1447 - 1s - loss: 37428.1874 - mean_squared_error: 37428.1874 - val_loss: 43563.3070 -
val_mean_squared_error: 43563.3070
1448 Epoch 708/1000
1449 - 1s - loss: 37466.5322 - mean_squared_error: 37466.5322 - val_loss: 43184.5717 -
val_mean_squared_error: 43184.5717
1450 Epoch 709/1000
1451 - 1s - loss: 37422.7166 - mean_squared_error: 37422.7166 - val_loss: 43436.2960 -
val_mean_squared_error: 43436.2960
1452 Epoch 710/1000
1453 - 1s - loss: 37444.8590 - mean_squared_error: 37444.8590 - val_loss: 43340.7993 -
val_mean_squared_error: 43340.7993
1454 Epoch 711/1000
1455 - 1s - loss: 37448.8854 - mean_squared_error: 37448.8854 - val_loss: 43752.6314 -
val_mean_squared_error: 43752.6314
1456 Epoch 712/1000
1457 - 1s - loss: 37437.5779 - mean_squared_error: 37437.5779 - val_loss: 43633.9308 -
val_mean_squared_error: 43633.9308
1458 Epoch 713/1000
1459 - 1s - loss: 37448.4734 - mean_squared_error: 37448.4734 - val_loss: 43498.4614 -
val_mean_squared_error: 43498.4614
1460 Epoch 714/1000
1461 - 1s - loss: 37451.3921 - mean_squared_error: 37451.3921 - val_loss: 43861.0935 -
val_mean_squared_error: 43861.0935
1462 Epoch 715/1000
1463 - 1s - loss: 37442.3325 - mean_squared_error: 37442.3325 - val_loss: 43678.4856 -
val_mean_squared_error: 43678.4856
1464 Epoch 716/1000
1465 - 1s - loss: 37449.3842 - mean_squared_error: 37449.3842 - val_loss: 43514.6456 -
val_mean_squared_error: 43514.6456
1466 Epoch 717/1000
1467 - 1s - loss: 37453.3224 - mean_squared_error: 37453.3224 - val_loss: 43857.2606 -
val_mean_squared_error: 43857.2606
1468 Epoch 718/1000
1469 - 1s - loss: 37444.0320 - mean_squared_error: 37444.0320 - val_loss: 43664.6627 -
val_mean_squared_error: 43664.6627
1470 Epoch 719/1000
1471 - 1s - loss: 37434.5720 - mean_squared_error: 37434.5720 - val_loss: 43568.3461 -
val_mean_squared_error: 43568.3461
```

File - run (1)

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1472 Epoch 720/1000
1473   - 1s - loss: 37451.0028 - mean_squared_error: 37451.0028 - val_loss: 43319.5744 -
    val_mean_squared_error: 43319.5744
1474 Epoch 721/1000
1475   - 1s - loss: 37469.2969 - mean_squared_error: 37469.2969 - val_loss: 43171.7958 -
    val_mean_squared_error: 43171.7958
1476 Epoch 722/1000
1477   - 1s - loss: 37358.8597 - mean_squared_error: 37358.8597 - val_loss: 43192.9775 -
    val_mean_squared_error: 43192.9775
1478 Epoch 723/1000
1479   - 1s - loss: 37505.9719 - mean_squared_error: 37505.9719 - val_loss: 43486.0494 -
    val_mean_squared_error: 43486.0494
1480 Epoch 724/1000
1481   - 1s - loss: 37397.0126 - mean_squared_error: 37397.0126 - val_loss: 43218.2350 -
    val_mean_squared_error: 43218.2350
1482 Epoch 725/1000
1483   - 1s - loss: 37412.6400 - mean_squared_error: 37412.6400 - val_loss: 43574.5455 -
    val_mean_squared_error: 43574.5455
1484 Epoch 726/1000
1485   - 1s - loss: 37433.0223 - mean_squared_error: 37433.0223 - val_loss: 43090.2642 -
    val_mean_squared_error: 43090.2642
1486 Epoch 727/1000
1487   - 1s - loss: 37440.5460 - mean_squared_error: 37440.5460 - val_loss: 42834.0637 -
    val_mean_squared_error: 42834.0637
1488 Epoch 728/1000
1489   - 1s - loss: 37455.9982 - mean_squared_error: 37455.9982 - val_loss: 42715.4356 -
    val_mean_squared_error: 42715.4356
1490 Epoch 729/1000
1491   - 1s - loss: 37418.7101 - mean_squared_error: 37418.7101 - val_loss: 42980.0577 -
    val_mean_squared_error: 42980.0577
1492 Epoch 730/1000
1493   - 1s - loss: 37424.1830 - mean_squared_error: 37424.1830 - val_loss: 42980.1327 -
    val_mean_squared_error: 42980.1327
1494 Epoch 731/1000
1495   - 1s - loss: 37461.0293 - mean_squared_error: 37461.0293 - val_loss: 42790.0859 -
    val_mean_squared_error: 42790.0859
1496 Epoch 732/1000
1497   - 1s - loss: 37418.6200 - mean_squared_error: 37418.6200 - val_loss: 43132.7558 -
    val_mean_squared_error: 43132.7558
1498 Epoch 733/1000
1499   - 1s - loss: 37439.3315 - mean_squared_error: 37439.3315 - val_loss: 42991.2280 -
    val_mean_squared_error: 42991.2280
1500 Epoch 734/1000
1501   - 1s - loss: 37473.0497 - mean_squared_error: 37473.0497 - val_loss: 42703.6659 -
    val_mean_squared_error: 42703.6659
1502 Epoch 735/1000
1503   - 1s - loss: 37426.2657 - mean_squared_error: 37426.2657 - val_loss: 43017.2898 -
    val_mean_squared_error: 43017.2898
1504 Epoch 736/1000
1505   - 1s - loss: 37434.6970 - mean_squared_error: 37434.6970 - val_loss: 42698.1955 -
    val_mean_squared_error: 42698.1955
1506 Epoch 737/1000
1507   - 1s - loss: 37464.7603 - mean_squared_error: 37464.7603 - val_loss: 42546.1151 -
    val_mean_squared_error: 42546.1151
1508 Epoch 738/1000
1509   - 1s - loss: 37484.2283 - mean_squared_error: 37484.2283 - val_loss: 42407.4546 -
    val_mean_squared_error: 42407.4546
1510 Epoch 739/1000
1511   - 1s - loss: 37352.1734 - mean_squared_error: 37352.1734 - val_loss: 42006.0356 -
    val_mean_squared_error: 42006.0356
1512 Epoch 740/1000
```

File - run (1)

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1513 - 1s - loss: 37437.9528 - mean_squared_error: 37437.9528 - val_loss: 42966.0204 -  
val_mean_squared_error: 42966.0204  
1514 Epoch 741/1000  
1515 - 1s - loss: 37337.0815 - mean_squared_error: 37337.0815 - val_loss: 42937.5701 -  
val_mean_squared_error: 42937.5701  
1516 Epoch 742/1000  
1517 - 1s - loss: 37362.0851 - mean_squared_error: 37362.0851 - val_loss: 43818.3381 -  
val_mean_squared_error: 43818.3381  
1518 Epoch 743/1000  
1519 - 1s - loss: 37415.4235 - mean_squared_error: 37415.4235 - val_loss: 44762.8402 -  
val_mean_squared_error: 44762.8402  
1520 Epoch 744/1000  
1521 - 1s - loss: 37450.7850 - mean_squared_error: 37450.7850 - val_loss: 44297.1318 -  
val_mean_squared_error: 44297.1318  
1522 Epoch 745/1000  
1523 - 1s - loss: 37445.4059 - mean_squared_error: 37445.4059 - val_loss: 44121.0002 -  
val_mean_squared_error: 44121.0002  
1524 Epoch 746/1000  
1525 - 1s - loss: 37460.5995 - mean_squared_error: 37460.5995 - val_loss: 44015.6606 -  
val_mean_squared_error: 44015.6606  
1526 Epoch 747/1000  
1527 - 1s - loss: 37363.4897 - mean_squared_error: 37363.4897 - val_loss: 44975.2428 -  
val_mean_squared_error: 44975.2428  
1528 Epoch 748/1000  
1529 - 1s - loss: 37393.1039 - mean_squared_error: 37393.1039 - val_loss: 45186.5320 -  
val_mean_squared_error: 45186.5320  
1530 Epoch 749/1000  
1531 - 1s - loss: 37440.3500 - mean_squared_error: 37440.3500 - val_loss: 45519.8141 -  
val_mean_squared_error: 45519.8141  
1532 Epoch 750/1000  
1533 - 1s - loss: 37400.4017 - mean_squared_error: 37400.4017 - val_loss: 45609.0374 -  
val_mean_squared_error: 45609.0374  
1534 Epoch 751/1000  
1535 - 1s - loss: 37476.1160 - mean_squared_error: 37476.1160 - val_loss: 45580.3593 -  
val_mean_squared_error: 45580.3593  
1536 Epoch 752/1000  
1537 - 1s - loss: 37415.9961 - mean_squared_error: 37415.9961 - val_loss: 44751.9017 -  
val_mean_squared_error: 44751.9017  
1538 Epoch 753/1000  
1539 - 1s - loss: 37454.6061 - mean_squared_error: 37454.6061 - val_loss: 45308.9030 -  
val_mean_squared_error: 45308.9030  
1540 Epoch 754/1000  
1541 - 1s - loss: 37415.0400 - mean_squared_error: 37415.0400 - val_loss: 44584.6830 -  
val_mean_squared_error: 44584.6830  
1542 Epoch 755/1000  
1543 - 1s - loss: 37456.1117 - mean_squared_error: 37456.1117 - val_loss: 45208.7300 -  
val_mean_squared_error: 45208.7300  
1544 Epoch 756/1000  
1545 - 1s - loss: 37434.2027 - mean_squared_error: 37434.2027 - val_loss: 44435.0828 -  
val_mean_squared_error: 44435.0828  
1546 Epoch 757/1000  
1547 - 1s - loss: 37440.6941 - mean_squared_error: 37440.6941 - val_loss: 45309.3424 -  
val_mean_squared_error: 45309.3424  
1548 Epoch 758/1000  
1549 - 1s - loss: 37396.8843 - mean_squared_error: 37396.8843 - val_loss: 44676.9358 -  
val_mean_squared_error: 44676.9358  
1550 Epoch 759/1000  
1551 - 1s - loss: 37449.4174 - mean_squared_error: 37449.4174 - val_loss: 45157.5010 -  
val_mean_squared_error: 45157.5010  
1552 Epoch 760/1000  
1553 - 1s - loss: 37406.7178 - mean_squared_error: 37406.7178 - val_loss: 44511.6166 -
```

File - run (1)

```
1553 val_mean_squared_error: 44511.6166
1554 Epoch 761/1000
1555 - 1s - loss: 37448.7177 - mean_squared_error: 37448.7177 - val_loss: 45190.7130 -
val_mean_squared_error: 45190.7130
1556 Epoch 762/1000
1557 - 1s - loss: 37429.8987 - mean_squared_error: 37429.8987 - val_loss: 44454.1461 -
val_mean_squared_error: 44454.1461
1558 Epoch 763/1000
1559 - 1s - loss: 37362.1399 - mean_squared_error: 37362.1399 - val_loss: 45735.8049 -
val_mean_squared_error: 45735.8049
1560 Epoch 764/1000
1561 - 1s - loss: 37404.0587 - mean_squared_error: 37404.0587 - val_loss: 45499.9392 -
val_mean_squared_error: 45499.9392
1562 Epoch 765/1000
1563 - 1s - loss: 37480.6586 - mean_squared_error: 37480.6586 - val_loss: 45875.6126 -
val_mean_squared_error: 45875.6126
1564 Epoch 766/1000
1565 - 1s - loss: 37416.9985 - mean_squared_error: 37416.9985 - val_loss: 45010.1533 -
val_mean_squared_error: 45010.1533
1566 Epoch 767/1000
1567 - 1s - loss: 37465.5967 - mean_squared_error: 37465.5967 - val_loss: 45458.3701 -
val_mean_squared_error: 45458.3701
1568 Epoch 768/1000
1569 - 1s - loss: 37411.6443 - mean_squared_error: 37411.6443 - val_loss: 44676.7986 -
val_mean_squared_error: 44676.7986
1570 Epoch 769/1000
1571 - 1s - loss: 37453.5068 - mean_squared_error: 37453.5068 - val_loss: 45231.5848 -
val_mean_squared_error: 45231.5848
1572 Epoch 770/1000
1573 - 1s - loss: 37410.9990 - mean_squared_error: 37410.9990 - val_loss: 44570.4300 -
val_mean_squared_error: 44570.4300
1574 Epoch 771/1000
1575 - 1s - loss: 37469.8494 - mean_squared_error: 37469.8494 - val_loss: 45128.9851 -
val_mean_squared_error: 45128.9851
1576 Epoch 772/1000
1577 - 1s - loss: 37392.2779 - mean_squared_error: 37392.2779 - val_loss: 44727.2318 -
val_mean_squared_error: 44727.2318
1578 Epoch 773/1000
1579 - 1s - loss: 37364.4773 - mean_squared_error: 37364.4773 - val_loss: 45362.7411 -
val_mean_squared_error: 45362.7411
1580 Epoch 774/1000
1581 - 1s - loss: 37467.8765 - mean_squared_error: 37467.8765 - val_loss: 45613.0671 -
val_mean_squared_error: 45613.0671
1582 Epoch 775/1000
1583 - 1s - loss: 37410.3731 - mean_squared_error: 37410.3731 - val_loss: 44945.4273 -
val_mean_squared_error: 44945.4273
1584 Epoch 776/1000
1585 - 1s - loss: 37454.4789 - mean_squared_error: 37454.4789 - val_loss: 45437.4588 -
val_mean_squared_error: 45437.4588
1586 Epoch 777/1000
1587 - 1s - loss: 37408.9684 - mean_squared_error: 37408.9684 - val_loss: 44719.9307 -
val_mean_squared_error: 44719.9307
1588 Epoch 778/1000
1589 - 1s - loss: 37449.8229 - mean_squared_error: 37449.8229 - val_loss: 45385.1671 -
val_mean_squared_error: 45385.1671
1590 Epoch 779/1000
1591 - 1s - loss: 37428.4922 - mean_squared_error: 37428.4922 - val_loss: 44597.3537 -
val_mean_squared_error: 44597.3537
1592 Epoch 780/1000
1593 - 1s - loss: 37358.6679 - mean_squared_error: 37358.6679 - val_loss: 45892.1206 -
val_mean_squared_error: 45892.1206
```

File - run (1)

```
1594 Epoch 781/1000
1595   - 1s - loss: 37400.6597 - mean_squared_error: 37400.6597 - val_loss: 45646.4967 -
    val_mean_squared_error: 45646.4967
1596 Epoch 782/1000
1597   - 1s - loss: 37406.6147 - mean_squared_error: 37406.6147 - val_loss: 45715.9701 -
    val_mean_squared_error: 45715.9701
1598 Epoch 783/1000
1599   - 1s - loss: 37410.7446 - mean_squared_error: 37410.7446 - val_loss: 46040.9783 -
    val_mean_squared_error: 46040.9783
1600 Epoch 784/1000
1601   - 1s - loss: 37422.0306 - mean_squared_error: 37422.0306 - val_loss: 46244.4146 -
    val_mean_squared_error: 46244.4146
1602 Epoch 785/1000
1603   - 1s - loss: 37501.6335 - mean_squared_error: 37501.6335 - val_loss: 46492.7888 -
    val_mean_squared_error: 46492.7888
1604 Epoch 786/1000
1605   - 1s - loss: 37428.4954 - mean_squared_error: 37428.4954 - val_loss: 45328.7372 -
    val_mean_squared_error: 45328.7372
1606 Epoch 787/1000
1607   - 1s - loss: 37465.6282 - mean_squared_error: 37465.6282 - val_loss: 45651.6517 -
    val_mean_squared_error: 45651.6517
1608 Epoch 788/1000
1609   - 1s - loss: 37411.3550 - mean_squared_error: 37411.3550 - val_loss: 44864.6420 -
    val_mean_squared_error: 44864.6420
1610 Epoch 789/1000
1611   - 1s - loss: 37448.3504 - mean_squared_error: 37448.3504 - val_loss: 45398.0201 -
    val_mean_squared_error: 45398.0201
1612 Epoch 790/1000
1613   - 1s - loss: 37408.0395 - mean_squared_error: 37408.0395 - val_loss: 44660.3542 -
    val_mean_squared_error: 44660.3542
1614 Epoch 791/1000
1615   - 1s - loss: 37390.2996 - mean_squared_error: 37390.2996 - val_loss: 45589.4049 -
    val_mean_squared_error: 45589.4049
1616 Epoch 792/1000
1617   - 1s - loss: 37390.8389 - mean_squared_error: 37390.8389 - val_loss: 46054.6581 -
    val_mean_squared_error: 46054.6581
1618 Epoch 793/1000
1619   - 1s - loss: 37401.5523 - mean_squared_error: 37401.5523 - val_loss: 45857.6824 -
    val_mean_squared_error: 45857.6824
1620 Epoch 794/1000
1621   - 1s - loss: 37409.5132 - mean_squared_error: 37409.5132 - val_loss: 45931.1284 -
    val_mean_squared_error: 45931.1284
1622 Epoch 795/1000
1623   - 1s - loss: 37412.1067 - mean_squared_error: 37412.1067 - val_loss: 46134.1507 -
    val_mean_squared_error: 46134.1507
1624 Epoch 796/1000
1625   - 1s - loss: 37418.2708 - mean_squared_error: 37418.2708 - val_loss: 46170.8208 -
    val_mean_squared_error: 46170.8208
1626 Epoch 797/1000
1627   - 1s - loss: 37494.4947 - mean_squared_error: 37494.4947 - val_loss: 46513.8320 -
    val_mean_squared_error: 46513.8320
1628 Epoch 798/1000
1629   - 1s - loss: 37423.6219 - mean_squared_error: 37423.6219 - val_loss: 45376.7686 -
    val_mean_squared_error: 45376.7686
1630 Epoch 799/1000
1631   - 1s - loss: 37388.5737 - mean_squared_error: 37388.5737 - val_loss: 45547.2637 -
    val_mean_squared_error: 45547.2637
1632 Epoch 800/1000
1633   - 1s - loss: 37403.6104 - mean_squared_error: 37403.6104 - val_loss: 45736.8229 -
    val_mean_squared_error: 45736.8229
1634 Epoch 801/1000
```


File - run (1)

```
1635 - 1s - loss: 37409.6965 - mean_squared_error: 37409.6965 - val_loss: 45992.6473 -  
val_mean_squared_error: 45992.6473  
1636 Epoch 802/1000  
1637 - 1s - loss: 37418.2464 - mean_squared_error: 37418.2464 - val_loss: 46093.8366 -  
val_mean_squared_error: 46093.8366  
1638 Epoch 803/1000  
1639 - 1s - loss: 37453.5020 - mean_squared_error: 37453.5020 - val_loss: 47167.9840 -  
val_mean_squared_error: 47167.9840  
1640 Epoch 804/1000  
1641 - 1s - loss: 37438.9139 - mean_squared_error: 37438.9139 - val_loss: 46888.4446 -  
val_mean_squared_error: 46888.4446  
1642 Epoch 805/1000  
1643 - 1s - loss: 37416.6956 - mean_squared_error: 37416.6956 - val_loss: 46601.7718 -  
val_mean_squared_error: 46601.7718  
1644 Epoch 806/1000  
1645 - 1s - loss: 37427.2814 - mean_squared_error: 37427.2814 - val_loss: 46091.0981 -  
val_mean_squared_error: 46091.0981  
1646 Epoch 807/1000  
1647 - 1s - loss: 37412.6881 - mean_squared_error: 37412.6881 - val_loss: 45944.1972 -  
val_mean_squared_error: 45944.1972  
1648 Epoch 808/1000  
1649 - 1s - loss: 37410.9688 - mean_squared_error: 37410.9688 - val_loss: 45892.7001 -  
val_mean_squared_error: 45892.7001  
1650 Epoch 809/1000  
1651 - 1s - loss: 37414.5894 - mean_squared_error: 37414.5894 - val_loss: 45870.9922 -  
val_mean_squared_error: 45870.9922  
1652 Epoch 810/1000  
1653 - 1s - loss: 37408.3075 - mean_squared_error: 37408.3075 - val_loss: 44966.9520 -  
val_mean_squared_error: 44966.9520  
1654 Epoch 811/1000  
1655 - 1s - loss: 37385.2476 - mean_squared_error: 37385.2476 - val_loss: 45301.2108 -  
val_mean_squared_error: 45301.2108  
1656 Epoch 812/1000  
1657 - 1s - loss: 37392.6385 - mean_squared_error: 37392.6385 - val_loss: 45665.9428 -  
val_mean_squared_error: 45665.9428  
1658 Epoch 813/1000  
1659 - 1s - loss: 37404.3527 - mean_squared_error: 37404.3527 - val_loss: 45783.9978 -  
val_mean_squared_error: 45783.9978  
1660 Epoch 814/1000  
1661 - 1s - loss: 37408.1691 - mean_squared_error: 37408.1691 - val_loss: 45879.6198 -  
val_mean_squared_error: 45879.6198  
1662 Epoch 815/1000  
1663 - 1s - loss: 37413.1954 - mean_squared_error: 37413.1954 - val_loss: 45925.6264 -  
val_mean_squared_error: 45925.6264  
1664 Epoch 816/1000  
1665 - 1s - loss: 37415.1547 - mean_squared_error: 37415.1547 - val_loss: 46003.8058 -  
val_mean_squared_error: 46003.8058  
1666 Epoch 817/1000  
1667 - 1s - loss: 37448.6575 - mean_squared_error: 37448.6575 - val_loss: 46931.4112 -  
val_mean_squared_error: 46931.4112  
1668 Epoch 818/1000  
1669 - 1s - loss: 37431.3877 - mean_squared_error: 37431.3877 - val_loss: 46750.8487 -  
val_mean_squared_error: 46750.8487  
1670 Epoch 819/1000  
1671 - 1s - loss: 37412.6405 - mean_squared_error: 37412.6405 - val_loss: 46402.1438 -  
val_mean_squared_error: 46402.1438  
1672 Epoch 820/1000  
1673 - 1s - loss: 37420.7925 - mean_squared_error: 37420.7925 - val_loss: 45971.6122 -  
val_mean_squared_error: 45971.6122  
1674 Epoch 821/1000  
1675 - 1s - loss: 37410.5543 - mean_squared_error: 37410.5543 - val_loss: 45876.9389 -
```

File - run (1)

```
1675 val_mean_squared_error: 45876.9389
1676 Epoch 822/1000
1677 - 1s - loss: 37410.3648 - mean_squared_error: 37410.3648 - val_loss: 45826.9135 -
    val_mean_squared_error: 45826.9135
1678 Epoch 823/1000
1679 - 1s - loss: 37408.3824 - mean_squared_error: 37408.3824 - val_loss: 44858.7386 -
    val_mean_squared_error: 44858.7386
1680 Epoch 824/1000
1681 - 1s - loss: 37378.5349 - mean_squared_error: 37378.5349 - val_loss: 45237.8188 -
    val_mean_squared_error: 45237.8188
1682 Epoch 825/1000
1683 - 1s - loss: 37391.2502 - mean_squared_error: 37391.2502 - val_loss: 45548.1059 -
    val_mean_squared_error: 45548.1059
1684 Epoch 826/1000
1685 - 1s - loss: 37400.7171 - mean_squared_error: 37400.7171 - val_loss: 45714.8617 -
    val_mean_squared_error: 45714.8617
1686 Epoch 827/1000
1687 - 1s - loss: 37406.2881 - mean_squared_error: 37406.2881 - val_loss: 45814.1357 -
    val_mean_squared_error: 45814.1357
1688 Epoch 828/1000
1689 - 1s - loss: 37410.1901 - mean_squared_error: 37410.1901 - val_loss: 45877.8955 -
    val_mean_squared_error: 45877.8955
1690 Epoch 829/1000
1691 - 1s - loss: 37413.0857 - mean_squared_error: 37413.0857 - val_loss: 45919.1525 -
    val_mean_squared_error: 45919.1525
1692 Epoch 830/1000
1693 - 1s - loss: 37415.3083 - mean_squared_error: 37415.3083 - val_loss: 45946.1090 -
    val_mean_squared_error: 45946.1090
1694 Epoch 831/1000
1695 - 1s - loss: 37447.5881 - mean_squared_error: 37447.5881 - val_loss: 46879.6795 -
    val_mean_squared_error: 46879.6795
1696 Epoch 832/1000
1697 - 1s - loss: 37430.9498 - mean_squared_error: 37430.9498 - val_loss: 46657.4900 -
    val_mean_squared_error: 46657.4900
1698 Epoch 833/1000
1699 - 1s - loss: 37410.0222 - mean_squared_error: 37410.0222 - val_loss: 46267.6108 -
    val_mean_squared_error: 46267.6108
1700 Epoch 834/1000
1701 - 1s - loss: 37419.8337 - mean_squared_error: 37419.8337 - val_loss: 45918.9684 -
    val_mean_squared_error: 45918.9684
1702 Epoch 835/1000
1703 - 1s - loss: 37407.4596 - mean_squared_error: 37407.4596 - val_loss: 44838.6516 -
    val_mean_squared_error: 44838.6516
1704 Epoch 836/1000
1705 - 1s - loss: 37376.7882 - mean_squared_error: 37376.7882 - val_loss: 45216.1275 -
    val_mean_squared_error: 45216.1275
1706 Epoch 837/1000
1707 - 1s - loss: 37387.4782 - mean_squared_error: 37387.4782 - val_loss: 45528.5297 -
    val_mean_squared_error: 45528.5297
1708 Epoch 838/1000
1709 - 1s - loss: 37397.4758 - mean_squared_error: 37397.4758 - val_loss: 45683.5908 -
    val_mean_squared_error: 45683.5908
1710 Epoch 839/1000
1711 - 1s - loss: 37402.9585 - mean_squared_error: 37402.9585 - val_loss: 45782.7137 -
    val_mean_squared_error: 45782.7137
1712 Epoch 840/1000
1713 - 1s - loss: 37407.1326 - mean_squared_error: 37407.1326 - val_loss: 45845.3055 -
    val_mean_squared_error: 45845.3055
1714 Epoch 841/1000
1715 - 1s - loss: 37410.2363 - mean_squared_error: 37410.2363 - val_loss: 45886.6641 -
    val_mean_squared_error: 45886.6641
```

File - run (1)

```
1716 Epoch 842/1000
1717   - 1s - loss: 37412.6697 - mean_squared_error: 37412.6697 - val_loss: 45934.1918 -
    val_mean_squared_error: 45934.1918
1718 Epoch 843/1000
1719   - 1s - loss: 37445.2115 - mean_squared_error: 37445.2115 - val_loss: 46851.1920 -
    val_mean_squared_error: 46851.1920
1720 Epoch 844/1000
1721   - 1s - loss: 37428.9423 - mean_squared_error: 37428.9423 - val_loss: 46629.2344 -
    val_mean_squared_error: 46629.2344
1722 Epoch 845/1000
1723   - 1s - loss: 37407.9073 - mean_squared_error: 37407.9073 - val_loss: 46241.9623 -
    val_mean_squared_error: 46241.9623
1724 Epoch 846/1000
1725   - 1s - loss: 37418.0877 - mean_squared_error: 37418.0877 - val_loss: 45891.3051 -
    val_mean_squared_error: 45891.3051
1726 Epoch 847/1000
1727   - 1s - loss: 37405.9767 - mean_squared_error: 37405.9767 - val_loss: 44828.0362 -
    val_mean_squared_error: 44828.0362
1728 Epoch 848/1000
1729   - 1s - loss: 37375.2788 - mean_squared_error: 37375.2788 - val_loss: 45191.7199 -
    val_mean_squared_error: 45191.7199
1730 Epoch 849/1000
1731   - 1s - loss: 37385.6162 - mean_squared_error: 37385.6162 - val_loss: 45498.1347 -
    val_mean_squared_error: 45498.1347
1732 Epoch 850/1000
1733   - 1s - loss: 37395.5055 - mean_squared_error: 37395.5055 - val_loss: 45652.5311 -
    val_mean_squared_error: 45652.5311
1734 Epoch 851/1000
1735   - 1s - loss: 37401.3900 - mean_squared_error: 37401.3900 - val_loss: 45755.3585 -
    val_mean_squared_error: 45755.3585
1736 Epoch 852/1000
1737   - 1s - loss: 37405.3143 - mean_squared_error: 37405.3143 - val_loss: 45819.7100 -
    val_mean_squared_error: 45819.7100
1738 Epoch 853/1000
1739   - 1s - loss: 37408.7305 - mean_squared_error: 37408.7305 - val_loss: 45880.2475 -
    val_mean_squared_error: 45880.2475
1740 Epoch 854/1000
1741   - 1s - loss: 37411.4865 - mean_squared_error: 37411.4865 - val_loss: 45912.2110 -
    val_mean_squared_error: 45912.2110
1742 Epoch 855/1000
1743   - 1s - loss: 37413.3330 - mean_squared_error: 37413.3330 - val_loss: 45929.8932 -
    val_mean_squared_error: 45929.8932
1744 Epoch 856/1000
1745   - 1s - loss: 37445.0294 - mean_squared_error: 37445.0294 - val_loss: 46837.7190 -
    val_mean_squared_error: 46837.7190
1746 Epoch 857/1000
1747   - 1s - loss: 37428.5942 - mean_squared_error: 37428.5942 - val_loss: 46617.0608 -
    val_mean_squared_error: 46617.0608
1748 Epoch 858/1000
1749   - 1s - loss: 37408.4076 - mean_squared_error: 37408.4076 - val_loss: 46247.2941 -
    val_mean_squared_error: 46247.2941
1750 Epoch 859/1000
1751   - 1s - loss: 37418.4672 - mean_squared_error: 37418.4672 - val_loss: 45836.1158 -
    val_mean_squared_error: 45836.1158
1752 Epoch 860/1000
1753   - 1s - loss: 37404.4950 - mean_squared_error: 37404.4950 - val_loss: 44794.4201 -
    val_mean_squared_error: 44794.4201
1754 Epoch 861/1000
1755   - 1s - loss: 37377.3845 - mean_squared_error: 37377.3845 - val_loss: 46064.0797 -
    val_mean_squared_error: 46064.0797
1756 Epoch 862/1000
```

File - run (1)

```
1757 - 1s - loss: 37414.8800 - mean_squared_error: 37414.8800 - val_loss: 45869.8526 -  
val_mean_squared_error: 45869.8526  
1758 Epoch 863/1000  
1759 - 1s - loss: 37410.8325 - mean_squared_error: 37410.8325 - val_loss: 45709.7217 -  
val_mean_squared_error: 45709.7217  
1760 Epoch 864/1000  
1761 - 1s - loss: 37408.2562 - mean_squared_error: 37408.2562 - val_loss: 45658.7967 -  
val_mean_squared_error: 45658.7967  
1762 Epoch 865/1000  
1763 - 1s - loss: 37404.9612 - mean_squared_error: 37404.9612 - val_loss: 44656.3479 -  
val_mean_squared_error: 44656.3479  
1764 Epoch 866/1000  
1765 - 1s - loss: 37374.4408 - mean_squared_error: 37374.4408 - val_loss: 45084.6234 -  
val_mean_squared_error: 45084.6234  
1766 Epoch 867/1000  
1767 - 1s - loss: 37385.8630 - mean_squared_error: 37385.8630 - val_loss: 45410.9269 -  
val_mean_squared_error: 45410.9269  
1768 Epoch 868/1000  
1769 - 1s - loss: 37395.5391 - mean_squared_error: 37395.5391 - val_loss: 45574.9036 -  
val_mean_squared_error: 45574.9036  
1770 Epoch 869/1000  
1771 - 1s - loss: 37400.8625 - mean_squared_error: 37400.8625 - val_loss: 45685.2341 -  
val_mean_squared_error: 45685.2341  
1772 Epoch 870/1000  
1773 - 1s - loss: 37404.9291 - mean_squared_error: 37404.9291 - val_loss: 45760.8278 -  
val_mean_squared_error: 45760.8278  
1774 Epoch 871/1000  
1775 - 1s - loss: 37408.0396 - mean_squared_error: 37408.0396 - val_loss: 45814.4903 -  
val_mean_squared_error: 45814.4903  
1776 Epoch 872/1000  
1777 - 1s - loss: 37416.4735 - mean_squared_error: 37416.4735 - val_loss: 46433.9773 -  
val_mean_squared_error: 46433.9773  
1778 Epoch 873/1000  
1779 - 1s - loss: 37424.1957 - mean_squared_error: 37424.1957 - val_loss: 45856.0057 -  
val_mean_squared_error: 45856.0057  
1780 Epoch 874/1000  
1781 - 1s - loss: 37418.7154 - mean_squared_error: 37418.7154 - val_loss: 46347.6114 -  
val_mean_squared_error: 46347.6114  
1782 Epoch 875/1000  
1783 - 1s - loss: 37422.1223 - mean_squared_error: 37422.1223 - val_loss: 45850.0563 -  
val_mean_squared_error: 45850.0563  
1784 Epoch 876/1000  
1785 - 1s - loss: 37419.2090 - mean_squared_error: 37419.2090 - val_loss: 46348.8049 -  
val_mean_squared_error: 46348.8049  
1786 Epoch 877/1000  
1787 - 1s - loss: 37422.3463 - mean_squared_error: 37422.3463 - val_loss: 45858.6834 -  
val_mean_squared_error: 45858.6834  
1788 Epoch 878/1000  
1789 - 1s - loss: 37419.2917 - mean_squared_error: 37419.2917 - val_loss: 46355.0342 -  
val_mean_squared_error: 46355.0342  
1790 Epoch 879/1000  
1791 - 1s - loss: 37422.2576 - mean_squared_error: 37422.2576 - val_loss: 45863.7440 -  
val_mean_squared_error: 45863.7440  
1792 Epoch 880/1000  
1793 - 1s - loss: 37418.9876 - mean_squared_error: 37418.9876 - val_loss: 46357.2343 -  
val_mean_squared_error: 46357.2343  
1794 Epoch 881/1000  
1795 - 1s - loss: 37421.9832 - mean_squared_error: 37421.9832 - val_loss: 45871.4593 -  
val_mean_squared_error: 45871.4593  
1796 Epoch 882/1000  
1797 - 1s - loss: 37418.6486 - mean_squared_error: 37418.6486 - val_loss: 46358.9190 -
```

File - run (1)

```
1797 val_mean_squared_error: 46358.9190
1798 Epoch 883/1000
1799 - 1s - loss: 37421.5980 - mean_squared_error: 37421.5980 - val_loss: 45869.2949 -
    val_mean_squared_error: 45869.2949
1800 Epoch 884/1000
1801 - 1s - loss: 37418.1568 - mean_squared_error: 37418.1568 - val_loss: 46377.9737 -
    val_mean_squared_error: 46377.9737
1802 Epoch 885/1000
1803 - 1s - loss: 37421.4508 - mean_squared_error: 37421.4508 - val_loss: 45871.8990 -
    val_mean_squared_error: 45871.8990
1804 Epoch 886/1000
1805 - 1s - loss: 37417.5774 - mean_squared_error: 37417.5774 - val_loss: 46382.5991 -
    val_mean_squared_error: 46382.5991
1806 Epoch 887/1000
1807 - 1s - loss: 37420.7131 - mean_squared_error: 37420.7131 - val_loss: 45872.9342 -
    val_mean_squared_error: 45872.9342
1808 Epoch 888/1000
1809 - 1s - loss: 37417.0633 - mean_squared_error: 37417.0633 - val_loss: 46380.2275 -
    val_mean_squared_error: 46380.2275
1810 Epoch 889/1000
1811 - 1s - loss: 37420.1019 - mean_squared_error: 37420.1019 - val_loss: 45876.9901 -
    val_mean_squared_error: 45876.9901
1812 Epoch 890/1000
1813 - 1s - loss: 37416.6821 - mean_squared_error: 37416.6821 - val_loss: 46381.3014 -
    val_mean_squared_error: 46381.3014
1814 Epoch 891/1000
1815 - 1s - loss: 37419.6734 - mean_squared_error: 37419.6734 - val_loss: 45877.7945 -
    val_mean_squared_error: 45877.7945
1816 Epoch 892/1000
1817 - 1s - loss: 37416.2473 - mean_squared_error: 37416.2473 - val_loss: 46381.8312 -
    val_mean_squared_error: 46381.8312
1818 Epoch 893/1000
1819 - 1s - loss: 37419.1847 - mean_squared_error: 37419.1847 - val_loss: 45879.1715 -
    val_mean_squared_error: 45879.1715
1820 Epoch 894/1000
1821 - 1s - loss: 37415.5774 - mean_squared_error: 37415.5774 - val_loss: 46381.8845 -
    val_mean_squared_error: 46381.8845
1822 Epoch 895/1000
1823 - 1s - loss: 37418.8212 - mean_squared_error: 37418.8212 - val_loss: 45878.7825 -
    val_mean_squared_error: 45878.7825
1824 Epoch 896/1000
1825 - 1s - loss: 37415.1528 - mean_squared_error: 37415.1528 - val_loss: 46383.2097 -
    val_mean_squared_error: 46383.2097
1826 Epoch 897/1000
1827 - 1s - loss: 37418.4891 - mean_squared_error: 37418.4891 - val_loss: 45879.8542 -
    val_mean_squared_error: 45879.8542
1828 Epoch 898/1000
1829 - 1s - loss: 37414.8159 - mean_squared_error: 37414.8159 - val_loss: 46384.6226 -
    val_mean_squared_error: 46384.6226
1830 Epoch 899/1000
1831 - 1s - loss: 37418.1810 - mean_squared_error: 37418.1810 - val_loss: 45880.9542 -
    val_mean_squared_error: 45880.9542
1832 Epoch 900/1000
1833 - 1s - loss: 37401.5826 - mean_squared_error: 37401.5826 - val_loss: 44898.3910 -
    val_mean_squared_error: 44898.3910
1834 Epoch 901/1000
1835 - 1s - loss: 37533.8269 - mean_squared_error: 37533.8269 - val_loss: 48777.4683 -
    val_mean_squared_error: 48777.4683
1836 Epoch 902/1000
1837 - 1s - loss: 37483.6066 - mean_squared_error: 37483.6066 - val_loss: 46416.8535 -
    val_mean_squared_error: 46416.8535
```

File - run (1)

```
1838 Epoch 903/1000
1839   - 1s - loss: 37403.8028 - mean_squared_error: 37403.8028 - val_loss: 45589.1386 -
    val_mean_squared_error: 45589.1386
1840 Epoch 904/1000
1841   - 1s - loss: 37344.9411 - mean_squared_error: 37344.9411 - val_loss: 45122.7257 -
    val_mean_squared_error: 45122.7257
1842 Epoch 905/1000
1843   - 1s - loss: 37373.3737 - mean_squared_error: 37373.3737 - val_loss: 45083.6086 -
    val_mean_squared_error: 45083.6086
1844 Epoch 906/1000
1845   - 1s - loss: 37343.3347 - mean_squared_error: 37343.3347 - val_loss: 45875.4375 -
    val_mean_squared_error: 45875.4375
1846 Epoch 907/1000
1847   - 1s - loss: 37397.8843 - mean_squared_error: 37397.8843 - val_loss: 45783.9722 -
    val_mean_squared_error: 45783.9722
1848 Epoch 908/1000
1849   - 1s - loss: 37371.4721 - mean_squared_error: 37371.4721 - val_loss: 46308.2188 -
    val_mean_squared_error: 46308.2188
1850 Epoch 909/1000
1851   - 1s - loss: 37415.2436 - mean_squared_error: 37415.2436 - val_loss: 46038.9516 -
    val_mean_squared_error: 46038.9516
1852 Epoch 910/1000
1853   - 1s - loss: 37383.9746 - mean_squared_error: 37383.9746 - val_loss: 46527.6920 -
    val_mean_squared_error: 46527.6920
1854 Epoch 911/1000
1855   - 1s - loss: 37423.9477 - mean_squared_error: 37423.9477 - val_loss: 46198.9931 -
    val_mean_squared_error: 46198.9931
1856 Epoch 912/1000
1857   - 1s - loss: 37391.3377 - mean_squared_error: 37391.3377 - val_loss: 46626.7001 -
    val_mean_squared_error: 46626.7001
1858 Epoch 913/1000
1859   - 1s - loss: 37428.9894 - mean_squared_error: 37428.9894 - val_loss: 46266.1631 -
    val_mean_squared_error: 46266.1631
1860 Epoch 914/1000
1861   - 1s - loss: 37394.5546 - mean_squared_error: 37394.5546 - val_loss: 46663.7271 -
    val_mean_squared_error: 46663.7271
1862 Epoch 915/1000
1863   - 1s - loss: 37431.5882 - mean_squared_error: 37431.5882 - val_loss: 46288.6531 -
    val_mean_squared_error: 46288.6531
1864 Epoch 916/1000
1865   - 1s - loss: 37394.4028 - mean_squared_error: 37394.4028 - val_loss: 46679.0308 -
    val_mean_squared_error: 46679.0308
1866 Epoch 917/1000
1867   - 1s - loss: 37433.0766 - mean_squared_error: 37433.0766 - val_loss: 46313.3751 -
    val_mean_squared_error: 46313.3751
1868 Epoch 918/1000
1869   - 1s - loss: 37395.1872 - mean_squared_error: 37395.1872 - val_loss: 46676.8763 -
    val_mean_squared_error: 46676.8763
1870 Epoch 919/1000
1871   - 1s - loss: 37433.9372 - mean_squared_error: 37433.9372 - val_loss: 46306.4609 -
    val_mean_squared_error: 46306.4609
1872 Epoch 920/1000
1873   - 1s - loss: 37426.3991 - mean_squared_error: 37426.3991 - val_loss: 44748.2670 -
    val_mean_squared_error: 44748.2670
1874 Epoch 921/1000
1875   - 1s - loss: 37508.2087 - mean_squared_error: 37508.2087 - val_loss: 48804.8006 -
    val_mean_squared_error: 48804.8006
1876 Epoch 922/1000
1877   - 1s - loss: 37523.9174 - mean_squared_error: 37523.9174 - val_loss: 45754.5283 -
    val_mean_squared_error: 45754.5283
1878 Epoch 923/1000
```

File - run (1)

```
1879 - 1s - loss: 37425.1183 - mean_squared_error: 37425.1183 - val_loss: 44969.6850 -  
val_mean_squared_error: 44969.6850  
1880 Epoch 924/1000  
1881 - 1s - loss: 37350.3101 - mean_squared_error: 37350.3101 - val_loss: 44901.8733 -  
val_mean_squared_error: 44901.8733  
1882 Epoch 925/1000  
1883 - 1s - loss: 37380.1963 - mean_squared_error: 37380.1963 - val_loss: 45228.8727 -  
val_mean_squared_error: 45228.8727  
1884 Epoch 926/1000  
1885 - 1s - loss: 37357.6380 - mean_squared_error: 37357.6380 - val_loss: 45498.8571 -  
val_mean_squared_error: 45498.8571  
1886 Epoch 927/1000  
1887 - 1s - loss: 37399.4312 - mean_squared_error: 37399.4312 - val_loss: 45896.2107 -  
val_mean_squared_error: 45896.2107  
1888 Epoch 928/1000  
1889 - 1s - loss: 37394.6859 - mean_squared_error: 37394.6859 - val_loss: 45192.1408 -  
val_mean_squared_error: 45192.1408  
1890 Epoch 929/1000  
1891 - 1s - loss: 37355.8584 - mean_squared_error: 37355.8584 - val_loss: 46057.1865 -  
val_mean_squared_error: 46057.1865  
1892 Epoch 930/1000  
1893 - 1s - loss: 37386.3019 - mean_squared_error: 37386.3019 - val_loss: 46435.4908 -  
val_mean_squared_error: 46435.4908  
1894 Epoch 931/1000  
1895 - 1s - loss: 37399.6869 - mean_squared_error: 37399.6869 - val_loss: 46594.0623 -  
val_mean_squared_error: 46594.0623  
1896 Epoch 932/1000  
1897 - 1s - loss: 37429.4559 - mean_squared_error: 37429.4559 - val_loss: 47168.9035 -  
val_mean_squared_error: 47168.9035  
1898 Epoch 933/1000  
1899 - 1s - loss: 37404.5212 - mean_squared_error: 37404.5212 - val_loss: 46936.8691 -  
val_mean_squared_error: 46936.8691  
1900 Epoch 934/1000  
1901 - 1s - loss: 37397.6945 - mean_squared_error: 37397.6945 - val_loss: 46917.3393 -  
val_mean_squared_error: 46917.3393  
1902 Epoch 935/1000  
1903 - 1s - loss: 37405.9229 - mean_squared_error: 37405.9229 - val_loss: 46735.6418 -  
val_mean_squared_error: 46735.6418  
1904 Epoch 936/1000  
1905 - 1s - loss: 37456.6001 - mean_squared_error: 37456.6001 - val_loss: 47214.1733 -  
val_mean_squared_error: 47214.1733  
1906 Epoch 937/1000  
1907 - 1s - loss: 37410.4007 - mean_squared_error: 37410.4007 - val_loss: 45660.2801 -  
val_mean_squared_error: 45660.2801  
1908 Epoch 938/1000  
1909 - 1s - loss: 37421.0605 - mean_squared_error: 37421.0605 - val_loss: 46823.1812 -  
val_mean_squared_error: 46823.1812  
1910 Epoch 939/1000  
1911 - 1s - loss: 37401.5006 - mean_squared_error: 37401.5006 - val_loss: 45847.7223 -  
val_mean_squared_error: 45847.7223  
1912 Epoch 940/1000  
1913 - 1s - loss: 37369.9369 - mean_squared_error: 37369.9369 - val_loss: 46208.3328 -  
val_mean_squared_error: 46208.3328  
1914 Epoch 941/1000  
1915 - 1s - loss: 37390.8095 - mean_squared_error: 37390.8095 - val_loss: 46329.1397 -  
val_mean_squared_error: 46329.1397  
1916 Epoch 942/1000  
1917 - 1s - loss: 37396.3516 - mean_squared_error: 37396.3516 - val_loss: 46600.7639 -  
val_mean_squared_error: 46600.7639  
1918 Epoch 943/1000  
1919 - 1s - loss: 37462.2761 - mean_squared_error: 37462.2761 - val_loss: 47097.1478 -
```

File - run (1)

```
1919 val_mean_squared_error: 47097.1478
1920 Epoch 944/1000
1921 - 1s - loss: 37432.7101 - mean_squared_error: 37432.7101 - val_loss: 45380.1565 -
    val_mean_squared_error: 45380.1565
1922 Epoch 945/1000
1923 - 1s - loss: 37363.2708 - mean_squared_error: 37363.2708 - val_loss: 46585.3977 -
    val_mean_squared_error: 46585.3977
1924 Epoch 946/1000
1925 - 1s - loss: 37401.2349 - mean_squared_error: 37401.2349 - val_loss: 46379.5079 -
    val_mean_squared_error: 46379.5079
1926 Epoch 947/1000
1927 - 1s - loss: 37400.2246 - mean_squared_error: 37400.2246 - val_loss: 46455.6625 -
    val_mean_squared_error: 46455.6625
1928 Epoch 948/1000
1929 - 1s - loss: 37403.7647 - mean_squared_error: 37403.7647 - val_loss: 46654.4298 -
    val_mean_squared_error: 46654.4298
1930 Epoch 949/1000
1931 - 1s - loss: 37466.7267 - mean_squared_error: 37466.7267 - val_loss: 47118.6961 -
    val_mean_squared_error: 47118.6961
1932 Epoch 950/1000
1933 - 1s - loss: 37437.7019 - mean_squared_error: 37437.7019 - val_loss: 45364.0714 -
    val_mean_squared_error: 45364.0714
1934 Epoch 951/1000
1935 - 1s - loss: 37365.6797 - mean_squared_error: 37365.6797 - val_loss: 46559.1490 -
    val_mean_squared_error: 46559.1490
1936 Epoch 952/1000
1937 - 1s - loss: 37403.1921 - mean_squared_error: 37403.1921 - val_loss: 46378.9229 -
    val_mean_squared_error: 46378.9229
1938 Epoch 953/1000
1939 - 1s - loss: 37402.4864 - mean_squared_error: 37402.4864 - val_loss: 46451.0091 -
    val_mean_squared_error: 46451.0091
1940 Epoch 954/1000
1941 - 1s - loss: 37405.3576 - mean_squared_error: 37405.3576 - val_loss: 46624.8315 -
    val_mean_squared_error: 46624.8315
1942 Epoch 955/1000
1943 - 1s - loss: 37468.6510 - mean_squared_error: 37468.6510 - val_loss: 47078.7889 -
    val_mean_squared_error: 47078.7889
1944 Epoch 956/1000
1945 - 1s - loss: 37438.6243 - mean_squared_error: 37438.6243 - val_loss: 45322.3838 -
    val_mean_squared_error: 45322.3838
1946 Epoch 957/1000
1947 - 1s - loss: 37366.1125 - mean_squared_error: 37366.1125 - val_loss: 46534.2704 -
    val_mean_squared_error: 46534.2704
1948 Epoch 958/1000
1949 - 1s - loss: 37462.7286 - mean_squared_error: 37462.7286 - val_loss: 46713.3568 -
    val_mean_squared_error: 46713.3568
1950 Epoch 959/1000
1951 - 1s - loss: 37410.0663 - mean_squared_error: 37410.0663 - val_loss: 45737.6060 -
    val_mean_squared_error: 45737.6060
1952 Epoch 960/1000
1953 - 1s - loss: 37376.4158 - mean_squared_error: 37376.4158 - val_loss: 46152.4881 -
    val_mean_squared_error: 46152.4881
1954 Epoch 961/1000
1955 - 1s - loss: 37397.9477 - mean_squared_error: 37397.9477 - val_loss: 46273.5004 -
    val_mean_squared_error: 46273.5004
1956 Epoch 962/1000
1957 - 1s - loss: 37401.2156 - mean_squared_error: 37401.2156 - val_loss: 46561.5318 -
    val_mean_squared_error: 46561.5318
1958 Epoch 963/1000
1959 - 1s - loss: 37410.6050 - mean_squared_error: 37410.6050 - val_loss: 46624.4080 -
    val_mean_squared_error: 46624.4080
```


File - run (1)

```
1960 Epoch 964/1000
1961   - 1s - loss: 37413.2500 - mean_squared_error: 37413.2500 - val_loss: 46649.0411 -
    val_mean_squared_error: 46649.0411
1962 Epoch 965/1000
1963   - 1s - loss: 37436.2482 - mean_squared_error: 37436.2482 - val_loss: 47682.3310 -
    val_mean_squared_error: 47682.3310
1964 Epoch 966/1000
1965   - 1s - loss: 37451.7750 - mean_squared_error: 37451.7750 - val_loss: 47146.0656 -
    val_mean_squared_error: 47146.0656
1966 Epoch 967/1000
1967   - 1s - loss: 37433.4319 - mean_squared_error: 37433.4319 - val_loss: 46721.9533 -
    val_mean_squared_error: 46721.9533
1968 Epoch 968/1000
1969   - 1s - loss: 37420.6401 - mean_squared_error: 37420.6401 - val_loss: 46544.8571 -
    val_mean_squared_error: 46544.8571
1970 Epoch 969/1000
1971   - 1s - loss: 37416.0857 - mean_squared_error: 37416.0857 - val_loss: 46438.3820 -
    val_mean_squared_error: 46438.3820
1972 Epoch 970/1000
1973   - 1s - loss: 37413.2105 - mean_squared_error: 37413.2105 - val_loss: 46374.5459 -
    val_mean_squared_error: 46374.5459
1974 Epoch 971/1000
1975   - 1s - loss: 37403.8660 - mean_squared_error: 37403.8660 - val_loss: 45321.9382 -
    val_mean_squared_error: 45321.9382
1976 Epoch 972/1000
1977   - 1s - loss: 37373.3366 - mean_squared_error: 37373.3366 - val_loss: 45799.1298 -
    val_mean_squared_error: 45799.1298
1978 Epoch 973/1000
1979   - 1s - loss: 37389.4553 - mean_squared_error: 37389.4553 - val_loss: 46124.1003 -
    val_mean_squared_error: 46124.1003
1980 Epoch 974/1000
1981   - 1s - loss: 37399.9359 - mean_squared_error: 37399.9359 - val_loss: 46270.3429 -
    val_mean_squared_error: 46270.3429
1982 Epoch 975/1000
1983   - 1s - loss: 37405.0601 - mean_squared_error: 37405.0601 - val_loss: 46355.9049 -
    val_mean_squared_error: 46355.9049
1984 Epoch 976/1000
1985   - 1s - loss: 37408.5989 - mean_squared_error: 37408.5989 - val_loss: 46402.7377 -
    val_mean_squared_error: 46402.7377
1986 Epoch 977/1000
1987   - 1s - loss: 37432.1479 - mean_squared_error: 37432.1479 - val_loss: 47447.4718 -
    val_mean_squared_error: 47447.4718
1988 Epoch 978/1000
1989   - 1s - loss: 37450.4287 - mean_squared_error: 37450.4287 - val_loss: 46918.1309 -
    val_mean_squared_error: 46918.1309
1990 Epoch 979/1000
1991   - 1s - loss: 37431.9536 - mean_squared_error: 37431.9536 - val_loss: 46513.8126 -
    val_mean_squared_error: 46513.8126
1992 Epoch 980/1000
1993   - 1s - loss: 37420.4311 - mean_squared_error: 37420.4311 - val_loss: 46334.4921 -
    val_mean_squared_error: 46334.4921
1994 Epoch 981/1000
1995   - 1s - loss: 37416.0637 - mean_squared_error: 37416.0637 - val_loss: 46236.2702 -
    val_mean_squared_error: 46236.2702
1996 Epoch 982/1000
1997   - 1s - loss: 37408.3614 - mean_squared_error: 37408.3614 - val_loss: 45155.2246 -
    val_mean_squared_error: 45155.2246
1998 Epoch 983/1000
1999   - 1s - loss: 37415.4826 - mean_squared_error: 37415.4826 - val_loss: 46566.9877 -
    val_mean_squared_error: 46566.9877
2000 Epoch 984/1000
```

File - run (1)

```
2001 - 1s - loss: 37421.7489 - mean_squared_error: 37421.7489 - val_loss: 45136.6111 -  
val_mean_squared_error: 45136.6111  
2002 Epoch 985/1000  
2003 - 1s - loss: 37417.8349 - mean_squared_error: 37417.8349 - val_loss: 46572.1001 -  
val_mean_squared_error: 46572.1001  
2004 Epoch 986/1000  
2005 - 1s - loss: 37429.4369 - mean_squared_error: 37429.4369 - val_loss: 46031.6210 -  
val_mean_squared_error: 46031.6210  
2006 Epoch 987/1000  
2007 - 1s - loss: 37494.9012 - mean_squared_error: 37494.9012 - val_loss: 45280.0255 -  
val_mean_squared_error: 45280.0255  
2008 Epoch 988/1000  
2009 - 1s - loss: 37425.9662 - mean_squared_error: 37425.9662 - val_loss: 44581.9937 -  
val_mean_squared_error: 44581.9937  
2010 Epoch 989/1000  
2011 - 1s - loss: 37389.1306 - mean_squared_error: 37389.1306 - val_loss: 45525.7325 -  
val_mean_squared_error: 45525.7325  
2012 Epoch 990/1000  
2013 - 1s - loss: 37425.6426 - mean_squared_error: 37425.6426 - val_loss: 45579.7251 -  
val_mean_squared_error: 45579.7251  
2014 Epoch 991/1000  
2015 - 1s - loss: 37398.4052 - mean_squared_error: 37398.4052 - val_loss: 45095.4384 -  
val_mean_squared_error: 45095.4384  
2016 Epoch 992/1000  
2017 - 1s - loss: 37418.9166 - mean_squared_error: 37418.9166 - val_loss: 46060.1525 -  
val_mean_squared_error: 46060.1525  
2018 Epoch 993/1000  
2019 - 1s - loss: 37416.2698 - mean_squared_error: 37416.2698 - val_loss: 45458.5866 -  
val_mean_squared_error: 45458.5866  
2020 Epoch 994/1000  
2021 - 1s - loss: 37419.5069 - mean_squared_error: 37419.5069 - val_loss: 45401.7956 -  
val_mean_squared_error: 45401.7956  
2022 Epoch 995/1000  
2023 - 1s - loss: 37432.5283 - mean_squared_error: 37432.5283 - val_loss: 46191.7184 -  
val_mean_squared_error: 46191.7184  
2024 Epoch 996/1000  
2025 - 1s - loss: 37420.2779 - mean_squared_error: 37420.2779 - val_loss: 45660.2628 -  
val_mean_squared_error: 45660.2628  
2026 Epoch 997/1000  
2027 - 1s - loss: 37427.2799 - mean_squared_error: 37427.2799 - val_loss: 45500.3581 -  
val_mean_squared_error: 45500.3581  
2028 Epoch 998/1000  
2029 - 1s - loss: 37422.3703 - mean_squared_error: 37422.3703 - val_loss: 45448.2148 -  
val_mean_squared_error: 45448.2148  
2030 Epoch 999/1000  
2031 - 1s - loss: 37418.2443 - mean_squared_error: 37418.2443 - val_loss: 45600.8103 -  
val_mean_squared_error: 45600.8103  
2032 Epoch 1000/1000  
2033 - 1s - loss: 37422.4918 - mean_squared_error: 37422.4918 - val_loss: 45646.6195 -  
val_mean_squared_error: 45646.6195  
2034 now date time: 2019-11-07 07:51:49.919446  
2035 model/201911070751_epoch0999-val_mean_squared_error45646.62.h5 Model Saved.  
2036 #####show result#####  
2037 history.png has been saved!  
2038 time use:636.194996834s  
2039  
2040 Process finished with exit code 0  
2041
```