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1 "C:\Users\asied\OneDrive\Documents\Coding Related Things\Garch Volatility
  Forecasting\venv\Scripts\python.exe" "C:/Users/asied/OneDrive/OneDrive/Documents/
  Coding Related Things/Garch Volatility Forecasting/EthLSTM.py"
2 Epoch 1/300
3 43/43 [=====] - 2s 8ms/step - loss: 3342096.2500
- mean_absolute_error: 1230.7919 - val_loss: 2077020.2500 -
val_mean_absolute_error: 1425.4701
4 Epoch 2/300
5 43/43 [=====] - 0s 2ms/step - loss: 3341600.0000
- mean_absolute_error: 1230.6207 - val_loss: 2076397.7500 -
val_mean_absolute_error: 1425.2554
6 Epoch 3/300
7 43/43 [=====] - 0s 2ms/step - loss: 3341025.2500
- mean_absolute_error: 1230.4087 - val_loss: 2075560.2500 -
val_mean_absolute_error: 1424.9673
8 Epoch 4/300
9 43/43 [=====] - 0s 2ms/step - loss: 3339712.0000
- mean_absolute_error: 1230.0115 - val_loss: 2074166.6250 -
val_mean_absolute_error: 1424.4882
10 Epoch 5/300
11 43/43 [=====] - 0s 2ms/step - loss: 3338258.0000
- mean_absolute_error: 1229.5133 - val_loss: 2072108.3750 -
val_mean_absolute_error: 1423.7784
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12 Epoch 6/300
13 43/43 [=====] - 0s 2ms/step - loss: 3336283.0000
    - mean_absolute_error: 1228.8149 - val_loss: 2069278.1250 -
    val_mean_absolute_error: 1422.7965
14 Epoch 7/300
15 43/43 [=====] - 0s 2ms/step - loss: 3332182.5000
    - mean_absolute_error: 1227.5530 - val_loss: 2065148.6250 -
    val_mean_absolute_error: 1421.3553
16 Epoch 8/300
17 43/43 [=====] - 0s 2ms/step - loss: 3329711.0000
    - mean_absolute_error: 1226.4176 - val_loss: 2060494.6250 -
    val_mean_absolute_error: 1419.7229
18 Epoch 9/300
19 43/43 [=====] - 0s 2ms/step - loss: 3326138.2500
    - mean_absolute_error: 1224.7693 - val_loss: 2055480.1250 -
    val_mean_absolute_error: 1417.9568
20 Epoch 10/300
21 43/43 [=====] - 0s 2ms/step - loss: 3321453.2500
    - mean_absolute_error: 1222.8298 - val_loss: 2049691.2500 -
    val_mean_absolute_error: 1415.9131
22 Epoch 11/300
23 43/43 [=====] - 0s 2ms/step - loss: 3313461.0000
    - mean_absolute_error: 1220.4783 - val_loss: 2043031.5000 -
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23 val_mean_absolute_error: 1413.5575
24 Epoch 12/300
25 43/43 [=====] - 0s 2ms/step - loss: 3308151.0000
- mean_absolute_error: 1217.8782 - val_loss: 2036128.3750 -
val_mean_absolute_error: 1411.1104
26 Epoch 13/300
27 43/43 [=====] - 0s 2ms/step - loss: 3306580.7500
- mean_absolute_error: 1216.5802 - val_loss: 2029224.1250 -
val_mean_absolute_error: 1408.6584
28 Epoch 14/300
29 43/43 [=====] - 0s 2ms/step - loss: 3297492.7500
- mean_absolute_error: 1213.1620 - val_loss: 2021763.6250 -
val_mean_absolute_error: 1406.0050
30 Epoch 15/300
31 43/43 [=====] - 0s 2ms/step - loss: 3292265.7500
- mean_absolute_error: 1211.0009 - val_loss: 2013809.0000 -
val_mean_absolute_error: 1403.1705
32 Epoch 16/300
33 43/43 [=====] - 0s 2ms/step - loss: 3280012.0000
- mean_absolute_error: 1207.4369 - val_loss: 2004759.3750 -
val_mean_absolute_error: 1399.9396
34 Epoch 17/300
35 43/43 [=====] - 0s 2ms/step - loss: 3276240.2500
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35  - mean_absolute_error: 1202.9418 - val_loss: 1995936.2500 -
    val_mean_absolute_error: 1396.7822
36  Epoch 18/300
37  43/43 [=====] - 0s 2ms/step - loss: 3273017.5000
    - mean_absolute_error: 1201.8281 - val_loss: 1986858.7500 -
    val_mean_absolute_error: 1393.5271
38  Epoch 19/300
39  43/43 [=====] - 0s 2ms/step - loss: 3255981.5000
    - mean_absolute_error: 1196.4094 - val_loss: 1976272.2500 -
    val_mean_absolute_error: 1389.7213
40  Epoch 20/300
41  43/43 [=====] - 0s 2ms/step - loss: 3247551.5000
    - mean_absolute_error: 1193.7244 - val_loss: 1965566.2500 -
    val_mean_absolute_error: 1385.8629
42  Epoch 21/300
43  43/43 [=====] - 0s 2ms/step - loss: 3251622.7500
    - mean_absolute_error: 1189.1960 - val_loss: 1955392.3750 -
    val_mean_absolute_error: 1382.1858
44  Epoch 22/300
45  43/43 [=====] - 0s 2ms/step - loss: 3234466.2500
    - mean_absolute_error: 1187.6807 - val_loss: 1944269.1250 -
    val_mean_absolute_error: 1378.1553
46  Epoch 23/300
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47 43/43 [=====] - 0s 2ms/step - loss: 3221053.7500
  - mean_absolute_error: 1180.7260 - val_loss: 1931581.3750 -
    val_mean_absolute_error: 1373.5437

48 Epoch 24/300
49 43/43 [=====] - 0s 2ms/step - loss: 3211181.2500
  - mean_absolute_error: 1178.2831 - val_loss: 1918884.1250 -
    val_mean_absolute_error: 1368.9131

50 Epoch 25/300
51 43/43 [=====] - 0s 2ms/step - loss: 3199702.2500
  - mean_absolute_error: 1173.9313 - val_loss: 1905141.5000 -
    val_mean_absolute_error: 1363.8837

52 Epoch 26/300
53 43/43 [=====] - 0s 2ms/step - loss: 3211473.2500
  - mean_absolute_error: 1174.9001 - val_loss: 1893201.0000 -
    val_mean_absolute_error: 1359.4988

54 Epoch 27/300
55 43/43 [=====] - 0s 2ms/step - loss: 3176273.2500
  - mean_absolute_error: 1168.7875 - val_loss: 1878475.6250 -
    val_mean_absolute_error: 1354.0720

56 Epoch 28/300
57 43/43 [=====] - 0s 2ms/step - loss: 3163228.5000
  - mean_absolute_error: 1166.8839 - val_loss: 1863666.5000 -
    val_mean_absolute_error: 1348.5924
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58 Epoch 29/300
59 43/43 [=====] - 0s 2ms/step - loss: 3161585.7500
- mean_absolute_error: 1161.1288 - val_loss: 1847965.5000 -
val_mean_absolute_error: 1342.7584
60 Epoch 30/300
61 43/43 [=====] - 0s 2ms/step - loss: 3166389.7500
- mean_absolute_error: 1161.6676 - val_loss: 1833475.7500 -
val_mean_absolute_error: 1337.3519
62 Epoch 31/300
63 43/43 [=====] - 0s 2ms/step - loss: 3135425.2500
- mean_absolute_error: 1157.0966 - val_loss: 1816748.3750 -
val_mean_absolute_error: 1331.0835
64 Epoch 32/300
65 43/43 [=====] - 0s 2ms/step - loss: 3121360.0000
- mean_absolute_error: 1157.8682 - val_loss: 1833475.7500 -
val_mean_absolute_error: 1324.7466
66 Epoch 33/300
67 43/43 [=====] - 0s 2ms/step - loss: 3095557.0000
- mean_absolute_error: 1150.3868 - val_loss: 1782752.6250 -
val_mean_absolute_error: 1318.2523
68 Epoch 34/300
69 43/43 [=====] - 0s 2ms/step - loss: 3097611.7500
- mean_absolute_error: 1150.3092 - val_loss: 1764449.1250 -
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69 val_mean_absolute_error: 1311.2919
70 Epoch 35/300
71 43/43 [=====] - 0s 2ms/step - loss: 3084222.2500
- mean_absolute_error: 1145.6443 - val_loss: 1746805.5000 -
val_mean_absolute_error: 1304.5474
72 Epoch 36/300
73 43/43 [=====] - 0s 2ms/step - loss: 3054533.0000
- mean_absolute_error: 1141.5986 - val_loss: 1727367.7500 -
val_mean_absolute_error: 1297.0760
74 Epoch 37/300
75 43/43 [=====] - 0s 2ms/step - loss: 3074733.2500
- mean_absolute_error: 1151.8528 - val_loss: 1709345.8750 -
val_mean_absolute_error: 1290.1110
76 Epoch 38/300
77 43/43 [=====] - 0s 2ms/step - loss: 3044280.2500
- mean_absolute_error: 1143.3931 - val_loss: 1690780.3750 -
val_mean_absolute_error: 1282.8961
78 Epoch 39/300
79 43/43 [=====] - 0s 2ms/step - loss: 3015173.7500
- mean_absolute_error: 1143.2408 - val_loss: 1671147.6250 -
val_mean_absolute_error: 1275.2227
80 Epoch 40/300
81 43/43 [=====] - 0s 2ms/step - loss: 2998819.5000
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81 - mean_absolute_error: 1139.6819 - val_loss: 1650724.0000 -
val_mean_absolute_error: 1267.1904
82 Epoch 41/300
83 43/43 [=====] - 0s 2ms/step - loss: 3014819.
5000 - mean_absolute_error: 1145.8916 - val_loss: 1630970.5000 -
val_mean_absolute_error: 1259.3734
84 Epoch 42/300
85 43/43 [=====] - 0s 2ms/step - loss: 2992209.
7500 - mean_absolute_error: 1141.6157 - val_loss: 1611929.0000 -
val_mean_absolute_error: 1251.7919
86 Epoch 43/300
87 43/43 [=====] - 0s 2ms/step - loss: 2987030.
7500 - mean_absolute_error: 1139.3737 - val_loss: 1592090.0000 -
val_mean_absolute_error: 1243.8441
88 Epoch 44/300
89 43/43 [=====] - 0s 2ms/step - loss: 2969461.
7500 - mean_absolute_error: 1145.3093 - val_loss: 1572153.7500 -
val_mean_absolute_error: 1235.8063
90 Epoch 45/300
91 43/43 [=====] - 0s 2ms/step - loss: 2978618.
2500 - mean_absolute_error: 1144.4857 - val_loss: 1552788.2500 -
val_mean_absolute_error: 1227.9485
92 Epoch 46/300
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93 43/43 [=====] - 0s 2ms/step - loss: 2969855.  
7500 - mean_absolute_error: 1145.9216 - val_loss: 1534795.2500 -  
val_mean_absolute_error: 1220.6029  
94 Epoch 47/300  
95 43/43 [=====] - 0s 2ms/step - loss: 2956527.  
5000 - mean_absolute_error: 1145.4287 - val_loss: 1514486.6250 -  
val_mean_absolute_error: 1212.2588  
96 Epoch 48/300  
97 43/43 [=====] - 0s 2ms/step - loss: 2915484.  
5000 - mean_absolute_error: 1137.7440 - val_loss: 1494705.3750 -  
val_mean_absolute_error: 1204.0768  
98 Epoch 49/300  
99 43/43 [=====] - 0s 2ms/step - loss: 2861922.  
5000 - mean_absolute_error: 1128.3918 - val_loss: 1471179.6250 -  
val_mean_absolute_error: 1194.2721  
100 Epoch 50/300  
101 43/43 [=====] - 0s 2ms/step - loss: 2859575.  
2500 - mean_absolute_error: 1132.6765 - val_loss: 1449065.6250 -  
val_mean_absolute_error: 1184.9854  
102 Epoch 51/300  
103 43/43 [=====] - 0s 2ms/step - loss: 2865844.  
5000 - mean_absolute_error: 1138.1453 - val_loss: 1428083.6250 -  
val_mean_absolute_error: 1176.1121
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104 Epoch 52/300
105 43/43 [=====] - 0s 2ms/step - loss: 2852592.
5000 - mean_absolute_error: 1128.8414 - val_loss: 1406311.3750 -
val_mean_absolute_error: 1166.8436
106 Epoch 53/300
107 43/43 [=====] - 0s 2ms/step - loss: 2855882.
0000 - mean_absolute_error: 1136.8396 - val_loss: 1386683.8750 -
val_mean_absolute_error: 1158.4727
108 Epoch 54/300
109 43/43 [=====] - 0s 2ms/step - loss: 2851817.
7500 - mean_absolute_error: 1129.1658 - val_loss: 1375858.3750 -
val_mean_absolute_error: 1154.3488
110 Epoch 55/300
111 43/43 [=====] - 0s 2ms/step - loss: 2842253.
5000 - mean_absolute_error: 1124.3462 - val_loss: 1372228.2500 -
val_mean_absolute_error: 1153.9650
112 Epoch 56/300
113 43/43 [=====] - 0s 2ms/step - loss: 2855197.
2500 - mean_absolute_error: 1110.4021 - val_loss: 1360990.8750 -
val_mean_absolute_error: 1149.8402
114 Epoch 57/300
115 43/43 [=====] - 0s 2ms/step - loss: 2750957.
2500 - mean_absolute_error: 1074.4712 - val_loss: 1347066.0000 -
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115 val_mean_absolute_error: 1144.5768
116 Epoch 58/300
117 43/43 [=====] - 0s 2ms/step - loss: 27555728.
    7500 - mean_absolute_error: 1057.4082 - val_loss: 1317524.0000 -
    val_mean_absolute_error: 1131.6577
118 Epoch 59/300
119 43/43 [=====] - 0s 2ms/step - loss: 2748219.
    0000 - mean_absolute_error: 1050.0869 - val_loss: 1291461.3750 -
    val_mean_absolute_error: 1120.2035
120 Epoch 60/300
121 43/43 [=====] - 0s 2ms/step - loss: 2698741.
    7500 - mean_absolute_error: 1032.5841 - val_loss: 1261808.3750 -
    val_mean_absolute_error: 1106.9318
122 Epoch 61/300
123 43/43 [=====] - 0s 2ms/step - loss: 2660871.
    5000 - mean_absolute_error: 1018.2752 - val_loss: 1231306.7500 -
    val_mean_absolute_error: 1093.0752
124 Epoch 62/300
125 43/43 [=====] - 0s 2ms/step - loss: 2647026.
    7500 - mean_absolute_error: 1012.7298 - val_loss: 1204279.7500 -
    val_mean_absolute_error: 1080.8070
126 Epoch 63/300
127 43/43 [=====] - 0s 2ms/step - loss: 2627653.
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127 7500 - mean_absolute_error: 1005.5858 - val_loss: 1172889.3750 -
val_mean_absolute_error: 1066.0977
128 Epoch 64/300
129 43/43 [=====] - 0s 2ms/step - Loss: 2603236.
0000 - mean_absolute_error: 999.5463 - val_loss: 1143772.2500 -
val_mean_absolute_error: 1052.3923
130 Epoch 65/300
131 43/43 [=====] - 0s 2ms/step - Loss: 2582399.
0000 - mean_absolute_error: 992.4686 - val_loss: 1115672.2500 -
val_mean_absolute_error: 1039.1239
132 Epoch 66/300
133 43/43 [=====] - 0s 2ms/step - Loss: 2583271.
2500 - mean_absolute_error: 987.2640 - val_loss: 1085678.2500 -
val_mean_absolute_error: 1024.4833
134 Epoch 67/300
135 43/43 [=====] - 0s 2ms/step - Loss: 2525770.
2500 - mean_absolute_error: 965.1927 - val_loss: 1057746.7500 -
val_mean_absolute_error: 1010.8425
136 Epoch 68/300
137 43/43 [=====] - 0s 2ms/step - Loss: 2573006.
2500 - mean_absolute_error: 981.0544 - val_loss: 1031145.5000 -
val_mean_absolute_error: 997.6515
138 Epoch 69/300
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139 43/43 [=====] - 0s 2ms/step - loss: 2504466.  
7500 - mean_absolute_error: 965.3273 - val_loss: 1006584.6875 -  
val_mean_absolute_error: 985.6045  
140 Epoch 70/300  
141 43/43 [=====] - 0s 2ms/step - loss: 2407681.  
0000 - mean_absolute_error: 941.2936 - val_loss: 972637.3750 -  
val_mean_absolute_error: 968.0085  
142 Epoch 71/300  
143 43/43 [=====] - 0s 2ms/step - loss: 2487453.  
2500 - mean_absolute_error: 951.9415 - val_loss: 945401.1250 -  
val_mean_absolute_error: 953.9232  
144 Epoch 72/300  
145 43/43 [=====] - 0s 2ms/step - loss: 2441099.  
5000 - mean_absolute_error: 945.0229 - val_loss: 920048.1875 -  
val_mean_absolute_error: 940.7183  
146 Epoch 73/300  
147 43/43 [=====] - 0s 2ms/step - loss: 2343077.  
2500 - mean_absolute_error: 926.5800 - val_loss: 894203.1250 -  
val_mean_absolute_error: 927.1772  
148 Epoch 74/300  
149 43/43 [=====] - 0s 2ms/step - loss: 2329261.  
0000 - mean_absolute_error: 918.9595 - val_loss: 867255.1250 -  
val_mean_absolute_error: 912.7866
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150 Epoch 75/300
151 43/43 [=====] - 0s 2ms/step - loss: 2372595.
2500 - mean_absolute_error: 923.1528 - val_loss: 841807.4375 -
val_mean_absolute_error: 898.8750
152 Epoch 76/300
153 43/43 [=====] - 0s 2ms/step - loss: 2364520.
7500 - mean_absolute_error: 922.0853 - val_loss: 816464.1250 -
val_mean_absolute_error: 884.8228
154 Epoch 77/300
155 43/43 [=====] - 0s 2ms/step - loss: 2314740.
5000 - mean_absolute_error: 914.1600 - val_loss: 786771.5000 -
val_mean_absolute_error: 867.7825
156 Epoch 78/300
157 43/43 [=====] - 0s 2ms/step - loss: 2271148.
5000 - mean_absolute_error: 908.2499 - val_loss: 764261.3125 -
val_mean_absolute_error: 855.1488
158 Epoch 79/300
159 43/43 [=====] - 0s 2ms/step - loss: 2388286.
7500 - mean_absolute_error: 924.4360 - val_loss: 745641.0625 -
val_mean_absolute_error: 844.6638
160 Epoch 80/300
161 43/43 [=====] - 0s 2ms/step - loss: 2347275.
0000 - mean_absolute_error: 917.7665 - val_loss: 725615.2500 -
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161 val_mean_absolute_error: 833.0565
162 Epoch 81/300
163 43/43 [=====] - 0s 2ms/step - loss: 2266337.
0000 - mean_absolute_error: 880.1295 - val_loss: 704228.0625 -
val_mean_absolute_error: 820.4079
164 Epoch 82/300
165 43/43 [=====] - 0s 2ms/step - loss: 2150700.
5000 - mean_absolute_error: 869.0477 - val_loss: 684782.6250 -
val_mean_absolute_error: 808.9446
166 Epoch 83/300
167 43/43 [=====] - 0s 2ms/step - loss: 2261187.
0000 - mean_absolute_error: 882.2097 - val_loss: 661492.2500 -
val_mean_absolute_error: 794.6014
168 Epoch 84/300
169 43/43 [=====] - 0s 2ms/step - loss: 2240459.
0000 - mean_absolute_error: 876.6967 - val_loss: 645490.5625 -
val_mean_absolute_error: 785.0671
170 Epoch 85/300
171 43/43 [=====] - 0s 2ms/step - loss: 2222713.
7500 - mean_absolute_error: 865.5047 - val_loss: 631743.6875 -
val_mean_absolute_error: 777.0118
172 Epoch 86/300
173 43/43 [=====] - 0s 2ms/step - loss: 2269852.
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173 2500 - mean_absolute_error: 895.5892 - val_loss: 617582.3125 -
    val_mean_absolute_error: 768.5243
174 Epoch 87/300
175 43/43 [=====] - 0s 2ms/step - loss: 2154712.
    0000 - mean_absolute_error: 872.6171 - val_loss: 595477.4375 -
    val_mean_absolute_error: 754.0724
176 Epoch 88/300
177 43/43 [=====] - 0s 2ms/step - loss: 2163019.
    7500 - mean_absolute_error: 854.0470 - val_loss: 583128.6875 -
    val_mean_absolute_error: 746.5953
178 Epoch 89/300
179 43/43 [=====] - 0s 2ms/step - loss: 2153267.
    5000 - mean_absolute_error: 867.3459 - val_loss: 569723.5625 -
    val_mean_absolute_error: 738.2628
180 Epoch 90/300
181 43/43 [=====] - 0s 2ms/step - loss: 2117010.
    7500 - mean_absolute_error: 845.2773 - val_loss: 545414.5625 -
    val_mean_absolute_error: 721.3890
182 Epoch 91/300
183 43/43 [=====] - 0s 2ms/step - loss: 2092202.
    3750 - mean_absolute_error: 833.6453 - val_loss: 529238.0000 -
    val_mean_absolute_error: 710.4434
184 Epoch 92/300
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185 43/43 [=====] - 0s 2ms/step - loss: 2217033.  
7500 - mean_absolute_error: 872.7256 - val_loss: 520650.4062 -  
val_mean_absolute_error: 705.2870  
186 Epoch 93/300  
187 43/43 [=====] - 0s 2ms/step - loss: 2019982.  
5000 - mean_absolute_error: 830.0043 - val_loss: 512345.7500 -  
val_mean_absolute_error: 700.3182  
188 Epoch 94/300  
189 43/43 [=====] - 0s 2ms/step - loss: 2134486.  
7500 - mean_absolute_error: 848.3068 - val_loss: 521832.9062 -  
val_mean_absolute_error: 708.8270  
190 Epoch 95/300  
191 43/43 [=====] - 0s 2ms/step - loss: 2126075.  
7500 - mean_absolute_error: 858.9513 - val_loss: 519680.8438 -  
val_mean_absolute_error: 708.3681  
192 Epoch 96/300  
193 43/43 [=====] - 0s 2ms/step - loss: 2003601.  
3750 - mean_absolute_error: 808.7280 - val_loss: 495709.3750 -  
val_mean_absolute_error: 690.9825  
194 Epoch 97/300  
195 43/43 [=====] - 0s 2ms/step - loss: 1970818.  
2500 - mean_absolute_error: 813.3934 - val_loss: 484383.9062 -  
val_mean_absolute_error: 683.2381
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196 Epoch 98/300
197 43/43 [=====] - 0s 2ms/step - loss: 1973230.
6250 - mean_absolute_error: 802.0963 - val_loss: 458673.5000 -
val_mean_absolute_error: 663.6824
198 Epoch 99/300
199 43/43 [=====] - 0s 2ms/step - loss: 2027813.
2500 - mean_absolute_error: 833.4097 - val_loss: 473695.4375 -
val_mean_absolute_error: 676.4849
200 Epoch 100/300
201 43/43 [=====] - 0s 2ms/step - loss: 1857956.
5000 - mean_absolute_error: 784.5868 - val_loss: 451333.0000 -
val_mean_absolute_error: 659.5544
202 Epoch 101/300
203 43/43 [=====] - 0s 2ms/step - loss: 1993387.
6250 - mean_absolute_error: 813.3272 - val_loss: 453074.0312 -
val_mean_absolute_error: 661.5229
204 Epoch 102/300
205 43/43 [=====] - 0s 2ms/step - loss: 1963713.
0000 - mean_absolute_error: 818.6364 - val_loss: 466698.7812 -
val_mean_absolute_error: 672.6591
206 Epoch 103/300
207 43/43 [=====] - 0s 2ms/step - loss: 1955222.
2500 - mean_absolute_error: 810.9828 - val_loss: 453662.4375 -
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207 val_mean_absolute_error: 662.9547
208 Epoch 104/300
209 43/43 [=====] - 0s 2ms/step - loss: 2032944.
7500 - mean_absolute_error: 846.6274 - val_loss: 456787.7188 -
val_mean_absolute_error: 665.5980
210 Epoch 105/300
211 43/43 [=====] - 0s 2ms/step - loss: 1895448.
5000 - mean_absolute_error: 800.0723 - val_loss: 427766.2500 -
val_mean_absolute_error: 642.9374
212 Epoch 106/300
213 43/43 [=====] - 0s 2ms/step - loss: 1905638.
3750 - mean_absolute_error: 805.4580 - val_loss: 413316.1875 -
val_mean_absolute_error: 631.4371
214 Epoch 107/300
215 43/43 [=====] - 0s 2ms/step - loss: 1979542.
6250 - mean_absolute_error: 823.1174 - val_loss: 402659.9375 -
val_mean_absolute_error: 622.8665
216 Epoch 108/300
217 43/43 [=====] - 0s 2ms/step - loss: 1886717.
3750 - mean_absolute_error: 801.8521 - val_loss: 408137.6875 -
val_mean_absolute_error: 627.3854
218 Epoch 109/300
219 43/43 [=====] - 0s 2ms/step - loss: 1918106.
```

```
219 8750 - mean_absolute_error: 806.4251 - val_loss: 417078.5000 -
val_mean_absolute_error: 634.6290
220 Epoch 110/300
221 43/43 [=====] - 0s 2ms/step - Loss: 2003993.
7500 - mean_absolute_error: 828.8158 - val_loss: 403697.6875 -
val_mean_absolute_error: 623.8642
222 Epoch 111/300
223 43/43 [=====] - 0s 2ms/step - Loss: 1909243.
6250 - mean_absolute_error: 805.3699 - val_loss: 404302.9062 -
val_mean_absolute_error: 624.2136
224 Epoch 112/300
225 43/43 [=====] - 0s 2ms/step - Loss: 1901044.
1250 - mean_absolute_error: 816.9524 - val_loss: 411867.6562 -
val_mean_absolute_error: 630.3228
226 Epoch 113/300
227 43/43 [=====] - 0s 2ms/step - Loss: 1840945.
0000 - mean_absolute_error: 794.5160 - val_loss: 376185.3750 -
val_mean_absolute_error: 600.7423
228 Epoch 114/300
229 43/43 [=====] - 0s 2ms/step - Loss: 1867080.
1250 - mean_absolute_error: 801.9371 - val_loss: 384485.4062 -
val_mean_absolute_error: 607.4555
230 Epoch 115/300
```

```
231 43/43 [=====] - 0s 2ms/step - loss: 1893962.  
3750 - mean_absolute_error: 814.2198 - val_loss: 376285.6562 -  
val_mean_absolute_error: 600.1961  
232 Epoch 116/300  
233 43/43 [=====] - 0s 2ms/step - loss: 1843028.  
3750 - mean_absolute_error: 794.9756 - val_loss: 381333.5000 -  
val_mean_absolute_error: 604.2675  
234 Epoch 117/300  
235 43/43 [=====] - 0s 2ms/step - loss: 1863155.  
0000 - mean_absolute_error: 798.6647 - val_loss: 353481.5312 -  
val_mean_absolute_error: 580.2646  
236 Epoch 118/300  
237 43/43 [=====] - 0s 2ms/step - loss: 1935749.  
5000 - mean_absolute_error: 820.4147 - val_loss: 374576.6562 -  
val_mean_absolute_error: 598.0810  
238 Epoch 119/300  
239 43/43 [=====] - 0s 2ms/step - loss: 1742826.  
3750 - mean_absolute_error: 778.7166 - val_loss: 359006.7188 -  
val_mean_absolute_error: 584.4482  
240 Epoch 120/300  
241 43/43 [=====] - 0s 2ms/step - loss: 1830367.  
3750 - mean_absolute_error: 799.4986 - val_loss: 339835.4375 -  
val_mean_absolute_error: 567.3916
```

```
242 Epoch 121/300
243 43/43 [=====] - 0s 2ms/step - loss: 1809697.
8750 - mean_absolute_error: 790.0353 - val_loss: 332661.2812 -
val_mean_absolute_error: 560.5741

244 Epoch 122/300
245 43/43 [=====] - 0s 2ms/step - loss: 1808392.
2500 - mean_absolute_error: 798.0968 - val_loss: 332861.7500 -
val_mean_absolute_error: 560.4499

246 Epoch 123/300
247 43/43 [=====] - 0s 2ms/step - loss: 1797468.
7500 - mean_absolute_error: 796.0005 - val_loss: 340873.4375 -
val_mean_absolute_error: 567.4062

248 Epoch 124/300
249 43/43 [=====] - 0s 2ms/step - loss: 1743960.
8750 - mean_absolute_error: 779.8661 - val_loss: 330773.5938 -
val_mean_absolute_error: 557.7224

250 Epoch 125/300
251 43/43 [=====] - 0s 2ms/step - loss: 1661685.
1250 - mean_absolute_error: 769.7321 - val_loss: 350269.9375 -
val_mean_absolute_error: 575.1670

252 Epoch 126/300
253 43/43 [=====] - 0s 2ms/step - loss: 1748449.
7500 - mean_absolute_error: 796.0454 - val_loss: 337108.1875 -
```

```
253 val_mean_absolute_error: 562.8257
254 Epoch 127/300
255 43/43 [=====] - 0s 2ms/step - loss: 1696989.
8750 - mean_absolute_error: 779.7638 - val_loss: 331641.7500 -
val_mean_absolute_error: 557.4454
256 Epoch 128/300
257 43/43 [=====] - 0s 2ms/step - loss: 1763617.
7500 - mean_absolute_error: 787.3025 - val_loss: 321392.1562 -
val_mean_absolute_error: 547.7438
258 Epoch 129/300
259 43/43 [=====] - 0s 2ms/step - loss: 1677844.
8750 - mean_absolute_error: 774.6884 - val_loss: 320801.8125 -
val_mean_absolute_error: 546.9519
260 Epoch 130/300
261 43/43 [=====] - 0s 2ms/step - loss: 1769538.
5000 - mean_absolute_error: 798.8227 - val_loss: 296451.0938 -
val_mean_absolute_error: 523.1603
262 Epoch 131/300
263 43/43 [=====] - 0s 2ms/step - loss: 1704263.
3750 - mean_absolute_error: 798.6520 - val_loss: 295372.0938 -
val_mean_absolute_error: 521.6296
264 Epoch 132/300
265 43/43 [=====] - 0s 2ms/step - loss: 1836540.
```

```
265 0000 - mean_absolute_error: 820.2836 - val_loss: 319627.5625 -
    val_mean_absolute_error: 544.9412
266 Epoch 133/300
267 43/43 [=====] - 0s 2ms/step - loss: 1721375.
    0000 - mean_absolute_error: 795.8090 - val_loss: 297931.4688 -
    val_mean_absolute_error: 523.8787
268 Epoch 134/300
269 43/43 [=====] - 0s 2ms/step - loss: 1640418.
    1250 - mean_absolute_error: 770.2985 - val_loss: 286138.9062 -
    val_mean_absolute_error: 511.7230
270 Epoch 135/300
271 43/43 [=====] - 0s 2ms/step - loss: 1730517.
    1250 - mean_absolute_error: 798.4177 - val_loss: 274637.3125 -
    val_mean_absolute_error: 499.1913
272 Epoch 136/300
273 43/43 [=====] - 0s 2ms/step - loss: 1657941.
    2500 - mean_absolute_error: 781.9421 - val_loss: 282209.5625 -
    val_mean_absolute_error: 506.6021
274 Epoch 137/300
275 43/43 [=====] - 0s 2ms/step - loss: 1611301.
    1250 - mean_absolute_error: 774.2719 - val_loss: 281970.3125 -
    val_mean_absolute_error: 505.7929
276 Epoch 138/300
```

```
277 43/43 [=====] - 0s 2ms/step - loss: 1712889.  
6250 - mean_absolute_error: 801.7778 - val_loss: 266764.0938 -  
val_mean_absolute_error: 489.5419  
278 Epoch 139/300  
279 43/43 [=====] - 0s 2ms/step - loss: 1773178.  
7500 - mean_absolute_error: 814.1302 - val_loss: 272492.5000 -  
val_mean_absolute_error: 495.5155  
280 Epoch 140/300  
281 43/43 [=====] - 0s 2ms/step - loss: 1696434.  
1250 - mean_absolute_error: 797.8315 - val_loss: 263501.7500 -  
val_mean_absolute_error: 485.6899  
282 Epoch 141/300  
283 43/43 [=====] - 0s 2ms/step - loss: 1633766.  
0000 - mean_absolute_error: 782.1804 - val_loss: 261620.9844 -  
val_mean_absolute_error: 483.0715  
284 Epoch 142/300  
285 43/43 [=====] - 0s 2ms/step - loss: 1599074.  
8750 - mean_absolute_error: 783.2606 - val_loss: 266840.4375 -  
val_mean_absolute_error: 488.8951  
286 Epoch 143/300  
287 43/43 [=====] - 0s 2ms/step - loss: 1640970.  
8750 - mean_absolute_error: 787.4363 - val_loss: 237065.0312 -  
val_mean_absolute_error: 454.5361
```

```
288 Epoch 144/300
289 43/43 [=====] - 0s 2ms/step - loss: 1695100.
6250 - mean_absolute_error: 805.1457 - val_loss: 231784.6875 -
val_mean_absolute_error: 447.8934
290 Epoch 145/300
291 43/43 [=====] - 0s 2ms/step - loss: 1595840.
2500 - mean_absolute_error: 787.8514 - val_loss: 236337.5469 -
val_mean_absolute_error: 453.2382
292 Epoch 146/300
293 43/43 [=====] - 0s 2ms/step - loss: 1654062.
5000 - mean_absolute_error: 796.8185 - val_loss: 234731.1250 -
val_mean_absolute_error: 451.3329
294 Epoch 147/300
295 43/43 [=====] - 0s 2ms/step - loss: 1696973.
8750 - mean_absolute_error: 818.8327 - val_loss: 252431.4375 -
val_mean_absolute_error: 472.7206
296 Epoch 148/300
297 43/43 [=====] - 0s 2ms/step - loss: 1589289.
3750 - mean_absolute_error: 792.3652 - val_loss: 254076.9844 -
val_mean_absolute_error: 475.6322
298 Epoch 149/300
299 43/43 [=====] - 0s 2ms/step - loss: 1674661.
1250 - mean_absolute_error: 819.8842 - val_loss: 245085.6875 -
```

```
299 val_mean_absolute_error: 465.6593
300 Epoch 150/300
301 43/43 [=====] - 0s 2ms/step - loss: 1672239.
0000 - mean_absolute_error: 818.3755 - val_loss: 232131.9531 -
val_mean_absolute_error: 449.8995
302 Epoch 151/300
303 43/43 [=====] - 0s 2ms/step - loss: 1547143.
0000 - mean_absolute_error: 780.0610 - val_loss: 223746.7344 -
val_mean_absolute_error: 440.1992
304 Epoch 152/300
305 43/43 [=====] - 0s 2ms/step - loss: 1538990.
6250 - mean_absolute_error: 782.1633 - val_loss: 219466.3281 -
val_mean_absolute_error: 434.9919
306 Epoch 153/300
307 43/43 [=====] - 0s 2ms/step - loss: 1655596.
0000 - mean_absolute_error: 819.1700 - val_loss: 207843.2656 -
val_mean_absolute_error: 419.2349
308 Epoch 154/300
309 43/43 [=====] - 0s 2ms/step - loss: 1516498.
1250 - mean_absolute_error: 780.3583 - val_loss: 212905.6250 -
val_mean_absolute_error: 426.2205
310 Epoch 155/300
311 43/43 [=====] - 0s 2ms/step - loss: 1602296.
```

```
311 1250 - mean_absolute_error: 805.8300 - val_loss: 208866.9688 -
    val_mean_absolute_error: 422.1485
312 Epoch 156/300
313 43/43 [=====] - 0s 2ms/step - loss: 1622522.
    1250 - mean_absolute_error: 813.1148 - val_loss: 205461.2031 -
    val_mean_absolute_error: 418.4305
314 Epoch 157/300
315 43/43 [=====] - 0s 2ms/step - loss: 1628818.
    2500 - mean_absolute_error: 809.6312 - val_loss: 204039.9062 -
    val_mean_absolute_error: 416.5881
316 Epoch 158/300
317 43/43 [=====] - 0s 2ms/step - loss: 1570530.
    8750 - mean_absolute_error: 811.3696 - val_loss: 202863.6875 -
    val_mean_absolute_error: 415.0608
318 Epoch 159/300
319 43/43 [=====] - 0s 2ms/step - loss: 1596577.
    8750 - mean_absolute_error: 822.3659 - val_loss: 209276.4062 -
    val_mean_absolute_error: 426.5467
320 Epoch 160/300
321 43/43 [=====] - 0s 2ms/step - loss: 1582311.
    0000 - mean_absolute_error: 815.4506 - val_loss: 218131.6875 -
    val_mean_absolute_error: 438.6841
322 Epoch 161/300
```

```
323 43/43 [=====] - 0s 2ms/step - loss: 1556488.  
8750 - mean_absolute_error: 814.6924 - val_loss: 206429.2500 -  
val_mean_absolute_error: 424.3888  
324 Epoch 162/300  
325 43/43 [=====] - 0s 2ms/step - loss: 15222519.  
3750 - mean_absolute_error: 817.2405 - val_loss: 195509.3125 -  
val_mean_absolute_error: 409.9732  
326 Epoch 163/300  
327 43/43 [=====] - 0s 2ms/step - loss: 1599412.  
8750 - mean_absolute_error: 833.8439 - val_loss: 189218.0938 -  
val_mean_absolute_error: 400.7114  
328 Epoch 164/300  
329 43/43 [=====] - 0s 2ms/step - loss: 1510494.  
5000 - mean_absolute_error: 806.8821 - val_loss: 185740.7500 -  
val_mean_absolute_error: 396.6054  
330 Epoch 165/300  
331 43/43 [=====] - 0s 2ms/step - loss: 1504095.  
3750 - mean_absolute_error: 805.9973 - val_loss: 189089.0625 -  
val_mean_absolute_error: 402.6727  
332 Epoch 166/300  
333 43/43 [=====] - 0s 2ms/step - loss: 1562699.  
6250 - mean_absolute_error: 832.2166 - val_loss: 180652.1719 -  
val_mean_absolute_error: 390.9702
```

```
334 Epoch 167/300
335 43/43 [=====] - 0s 2ms/step - loss: 1483989.
1250 - mean_absolute_error: 808.7125 - val_loss: 174555.0938 -
val_mean_absolute_error: 382.7473

336 Epoch 168/300
337 43/43 [=====] - 0s 2ms/step - loss: 1500884.
0000 - mean_absolute_error: 816.7313 - val_loss: 174325.3281 -
val_mean_absolute_error: 382.7315

338 Epoch 169/300
339 43/43 [=====] - 0s 2ms/step - loss: 1499512.
0000 - mean_absolute_error: 809.7700 - val_loss: 169350.7031 -
val_mean_absolute_error: 375.9130

340 Epoch 170/300
341 43/43 [=====] - 0s 2ms/step - loss: 1534756.
0000 - mean_absolute_error: 825.8948 - val_loss: 154305.3750 -
val_mean_absolute_error: 352.7439

342 Epoch 171/300
343 43/43 [=====] - 0s 2ms/step - loss: 1525894.
2500 - mean_absolute_error: 819.1686 - val_loss: 151711.9062 -
val_mean_absolute_error: 348.6592

344 Epoch 172/300
345 43/43 [=====] - 0s 2ms/step - loss: 1494389.
1250 - mean_absolute_error: 817.3619 - val_loss: 155101.9375 -
```

```
345 val_mean_absolute_error: 353.9273
346 Epoch 173/300
347 43/43 [=====] - 0s 2ms/step - loss: 1524006.
8750 - mean_absolute_error: 828.9915 - val_loss: 158643.2344 -
val_mean_absolute_error: 361.3003
348 Epoch 174/300
349 43/43 [=====] - 0s 2ms/step - loss: 1482089.
2500 - mean_absolute_error: 824.1722 - val_loss: 153997.1562 -
val_mean_absolute_error: 356.1280
350 Epoch 175/300
351 43/43 [=====] - 0s 2ms/step - loss: 1567375.
2500 - mean_absolute_error: 838.3388 - val_loss: 156059.5000 -
val_mean_absolute_error: 359.8705
352 Epoch 176/300
353 43/43 [=====] - 0s 2ms/step - loss: 1457561.
1250 - mean_absolute_error: 819.8992 - val_loss: 143796.7656 -
val_mean_absolute_error: 341.3797
354 Epoch 177/300
355 43/43 [=====] - 0s 2ms/step - loss: 1432311.
5000 - mean_absolute_error: 821.0920 - val_loss: 139885.0625 -
val_mean_absolute_error: 335.2881
356 Epoch 178/300
357 43/43 [=====] - 0s 3ms/step - loss: 1538434.
```

```
357 5000 - mean_absolute_error: 833.5756 - val_loss: 134227.8750 -
    val_mean_absolute_error: 327.0180
358 Epoch 179/300
359 43/43 [=====] - 0s 2ms/step - loss: 1361222.
2500 - mean_absolute_error: 797.8652 - val_loss: 137984.7031 -
    val_mean_absolute_error: 335.5612
360 Epoch 180/300
361 43/43 [=====] - 0s 2ms/step - loss: 1416129.
3750 - mean_absolute_error: 815.7169 - val_loss: 134423.8750 -
    val_mean_absolute_error: 331.2273
362 Epoch 181/300
363 43/43 [=====] - 0s 2ms/step - loss: 1562032.
6250 - mean_absolute_error: 850.9009 - val_loss: 140310.1250 -
    val_mean_absolute_error: 342.0853
364 Epoch 182/300
365 43/43 [=====] - 0s 2ms/step - loss: 1461051.
5000 - mean_absolute_error: 835.7537 - val_loss: 133388.7500 -
    val_mean_absolute_error: 331.7313
366 Epoch 183/300
367 43/43 [=====] - 0s 2ms/step - loss: 1392058.
6250 - mean_absolute_error: 813.4980 - val_loss: 137486.7188 -
    val_mean_absolute_error: 339.6415
368 Epoch 184/300
```

```
369 43/43 [=====] - 0s 2ms/step - loss: 1412063.  
3750 - mean_absolute_error: 820.3292 - val_loss: 122910.3281 -  
val_mean_absolute_error: 315.9998  
370 Epoch 185/300  
371 43/43 [=====] - 0s 2ms/step - loss: 1354345.  
7500 - mean_absolute_error: 805.2331 - val_loss: 115083.9297 -  
val_mean_absolute_error: 302.9820  
372 Epoch 186/300  
373 43/43 [=====] - 0s 2ms/step - loss: 1438575.  
0000 - mean_absolute_error: 837.8469 - val_loss: 111535.0703 -  
val_mean_absolute_error: 297.3466  
374 Epoch 187/300  
375 43/43 [=====] - 0s 2ms/step - loss: 1427492.  
8750 - mean_absolute_error: 825.3191 - val_loss: 109097.9766 -  
val_mean_absolute_error: 294.0418  
376 Epoch 188/300  
377 43/43 [=====] - 0s 2ms/step - loss: 1389198.  
5000 - mean_absolute_error: 818.3994 - val_loss: 111295.6016 -  
val_mean_absolute_error: 299.0615  
378 Epoch 189/300  
379 43/43 [=====] - 0s 2ms/step - loss: 1406410.  
0000 - mean_absolute_error: 825.1331 - val_loss: 104898.4453 -  
val_mean_absolute_error: 288.7778
```

```
380 Epoch 190/300
381 43/43 [=====] - 0s 2ms/step - loss: 1397977.
    7500 - mean_absolute_error: 822.1298 - val_loss: 104190.1797 -
    val_mean_absolute_error: 288.2475
382 Epoch 191/300
383 43/43 [=====] - 0s 2ms/step - loss: 1385399.
    6250 - mean_absolute_error: 817.5927 - val_loss: 103457.2500 -
    val_mean_absolute_error: 287.9643
384 Epoch 192/300
385 43/43 [=====] - 0s 2ms/step - loss: 1444455.
    7500 - mean_absolute_error: 849.4231 - val_loss: 97426.5000 -
    val_mean_absolute_error: 277.6282
386 Epoch 193/300
387 43/43 [=====] - 0s 2ms/step - loss: 1379850.
    1250 - mean_absolute_error: 827.1376 - val_loss: 96958.1797 -
    val_mean_absolute_error: 277.6527
388 Epoch 194/300
389 43/43 [=====] - 0s 2ms/step - loss: 1284309.
    0000 - mean_absolute_error: 808.4683 - val_loss: 96032.4219 -
    val_mean_absolute_error: 276.4068
390 Epoch 195/300
391 43/43 [=====] - 0s 2ms/step - loss: 1364765.
    6250 - mean_absolute_error: 826.3692 - val_loss: 93212.1797 -
```

```
391 val_mean_absolute_error: 271.5066
392 Epoch 196/300
393 43/43 [=====] - 0s 2ms/step - loss: 1426351.
0000 - mean_absolute_error: 841.8323 - val_loss: 90167.0938 -
val_mean_absolute_error: 266.4043
394 Epoch 197/300
395 43/43 [=====] - 0s 2ms/step - loss: 1383418.
5000 - mean_absolute_error: 827.9488 - val_loss: 86719.7422 -
val_mean_absolute_error: 260.7377
396 Epoch 198/300
397 43/43 [=====] - 0s 2ms/step - loss: 1381827.
5000 - mean_absolute_error: 834.1396 - val_loss: 86656.5391 -
val_mean_absolute_error: 261.2917
398 Epoch 199/300
399 43/43 [=====] - 0s 2ms/step - loss: 1393896.
8750 - mean_absolute_error: 847.3505 - val_loss: 80444.8594 -
val_mean_absolute_error: 249.4655
400 Epoch 200/300
401 43/43 [=====] - 0s 2ms/step - loss: 1345956.
0000 - mean_absolute_error: 819.3241 - val_loss: 75977.4375 -
val_mean_absolute_error: 240.9910
402 Epoch 201/300
403 43/43 [=====] - 0s 2ms/step - loss: 13000470.
```

```
403 0000 - mean_absolute_error: 813.8326 - val_loss: 76846.1875 -
    val_mean_absolute_error: 243.2607
404 Epoch 202/300
405 43/43 [=====] - 0s 2ms/step - loss: 1353117.
2500 - mean_absolute_error: 830.9150 - val_loss: 77103.8906 -
    val_mean_absolute_error: 244.7524
406 Epoch 203/300
407 43/43 [=====] - 0s 2ms/step - loss: 1345557.
5000 - mean_absolute_error: 822.2377 - val_loss: 68726.6562 -
    val_mean_absolute_error: 227.4333
408 Epoch 204/300
409 43/43 [=====] - 0s 2ms/step - loss: 1231067.
8750 - mean_absolute_error: 793.6169 - val_loss: 67538.7734 -
    val_mean_absolute_error: 225.5815
410 Epoch 205/300
411 43/43 [=====] - 0s 3ms/step - loss: 1370172.
7500 - mean_absolute_error: 836.1575 - val_loss: 67352.7891 -
    val_mean_absolute_error: 225.9889
412 Epoch 206/300
413 43/43 [=====] - 0s 2ms/step - loss: 1387759.
0000 - mean_absolute_error: 844.7182 - val_loss: 67071.2734 -
    val_mean_absolute_error: 226.1418
414 Epoch 207/300
```

```
415 43/43 [=====] - 0s 2ms/step - loss: 1339114.  
5000 - mean_absolute_error: 820.5596 - val_loss: 65505.0352 -  
val_mean_absolute_error: 223.4864  
416 Epoch 208/300  
417 43/43 [=====] - 0s 2ms/step - loss: 1378355.  
6250 - mean_absolute_error: 845.2622 - val_loss: 63249.9883 -  
val_mean_absolute_error: 219.3065  
418 Epoch 209/300  
419 43/43 [=====] - 0s 2ms/step - loss: 1306945.  
5000 - mean_absolute_error: 826.1844 - val_loss: 61938.1953 -  
val_mean_absolute_error: 216.9513  
420 Epoch 210/300  
421 43/43 [=====] - 0s 2ms/step - loss: 1286777.  
3750 - mean_absolute_error: 814.7838 - val_loss: 57882.1719 -  
val_mean_absolute_error: 208.9574  
422 Epoch 211/300  
423 43/43 [=====] - 0s 2ms/step - loss: 1265282.  
2500 - mean_absolute_error: 799.8470 - val_loss: 56202.6484 -  
val_mean_absolute_error: 205.9149  
424 Epoch 212/300  
425 43/43 [=====] - 0s 2ms/step - loss: 1250987.  
0000 - mean_absolute_error: 805.5990 - val_loss: 56041.3242 -  
val_mean_absolute_error: 205.8811
```

```
426 Epoch 213/300
427 43/43 [=====] - 0s 2ms/step - loss: 1304060.
0000 - mean_absolute_error: 821.3052 - val_loss: 53812.5430 -
val_mean_absolute_error: 201.5495

428 Epoch 214/300
429 43/43 [=====] - 0s 2ms/step - loss: 1229049.
0000 - mean_absolute_error: 797.8727 - val_loss: 56466.0195 -
val_mean_absolute_error: 206.8397

430 Epoch 215/300
431 43/43 [=====] - 0s 2ms/step - loss: 1304350.
1250 - mean_absolute_error: 824.9871 - val_loss: 52922.8047 -
val_mean_absolute_error: 199.6546

432 Epoch 216/300
433 43/43 [=====] - 0s 2ms/step - loss: 1357741.
0000 - mean_absolute_error: 846.8832 - val_loss: 52556.9570 -
val_mean_absolute_error: 199.1023

434 Epoch 217/300
435 43/43 [=====] - 0s 2ms/step - loss: 12666690.
0000 - mean_absolute_error: 823.2071 - val_loss: 50963.0117 -
val_mean_absolute_error: 196.0104

436 Epoch 218/300
437 43/43 [=====] - 0s 2ms/step - loss: 1294831.
0000 - mean_absolute_error: 832.9869 - val_loss: 50363.9180 -
```

```
437 val_mean_absolute_error: 195.0873
438 Epoch 219/300
439 43/43 [=====] - 0s 2ms/step - loss: 1240506.
2500 - mean_absolute_error: 811.0884 - val_loss: 48792.8242 -
val_mean_absolute_error: 191.9532
440 Epoch 220/300
441 43/43 [=====] - 0s 2ms/step - loss: 1310147.
2500 - mean_absolute_error: 836.7936 - val_loss: 46198.9727 -
val_mean_absolute_error: 186.3500
442 Epoch 221/300
443 43/43 [=====] - 0s 2ms/step - loss: 1341663.
1250 - mean_absolute_error: 849.2409 - val_loss: 44893.4922 -
val_mean_absolute_error: 183.8182
444 Epoch 222/300
445 43/43 [=====] - 0s 2ms/step - loss: 1244465.
7500 - mean_absolute_error: 816.6660 - val_loss: 4821.0664 -
val_mean_absolute_error: 183.5934
446 Epoch 223/300
447 43/43 [=====] - 0s 2ms/step - loss: 1289563.
7500 - mean_absolute_error: 829.1240 - val_loss: 43864.6484 -
val_mean_absolute_error: 181.5854
448 Epoch 224/300
449 43/43 [=====] - 0s 2ms/step - loss: 1264117.
```

```
449 7500 - mean_absolute_error: 817.1108 - val_loss: 43183.4766 -
    val_mean_absolute_error: 180.3361
450 Epoch 225/300
451 43/43 [=====] - 0s 2ms/step - Loss: 1313415.
    7500 - mean_absolute_error: 839.4905 - val_loss: 41946.1094 -
    val_mean_absolute_error: 177.3182
452 Epoch 226/300
453 43/43 [=====] - 0s 2ms/step - Loss: 1243953.
    6250 - mean_absolute_error: 825.6893 - val_loss: 41806.9570 -
    val_mean_absolute_error: 177.3018
454 Epoch 227/300
455 43/43 [=====] - 0s 2ms/step - Loss: 1351944.
    5000 - mean_absolute_error: 852.6733 - val_loss: 41254.9648 -
    val_mean_absolute_error: 175.9617
456 Epoch 228/300
457 43/43 [=====] - 0s 2ms/step - Loss: 1249577.
    8750 - mean_absolute_error: 823.4236 - val_loss: 40721.5430 -
    val_mean_absolute_error: 174.8914
458 Epoch 229/300
459 43/43 [=====] - 0s 2ms/step - Loss: 1325481.
    8750 - mean_absolute_error: 836.7925 - val_loss: 39611.3750 -
    val_mean_absolute_error: 172.2714
460 Epoch 230/300
```

```
461 43/43 [=====] - 0s 2ms/step - loss: 1212562.  
3750 - mean_absolute_error: 821.0572 - val_loss: 38923.1250 -  
val_mean_absolute_error: 170.7453  
462 Epoch 231/300  
463 43/43 [=====] - 0s 2ms/step - loss: 1271404.  
3750 - mean_absolute_error: 828.5364 - val_loss: 38734.8750 -  
val_mean_absolute_error: 169.8447  
464 Epoch 232/300  
465 43/43 [=====] - 0s 2ms/step - loss: 1348889.  
0000 - mean_absolute_error: 862.6354 - val_loss: 38029.2734 -  
val_mean_absolute_error: 168.3298  
466 Epoch 233/300  
467 43/43 [=====] - 0s 3ms/step - loss: 1259725.  
8750 - mean_absolute_error: 836.8846 - val_loss: 37408.2734 -  
val_mean_absolute_error: 166.9345  
468 Epoch 234/300  
469 43/43 [=====] - 0s 2ms/step - loss: 1235112.  
2500 - mean_absolute_error: 833.7578 - val_loss: 36838.5039 -  
val_mean_absolute_error: 165.7346  
470 Epoch 235/300  
471 43/43 [=====] - 0s 2ms/step - loss: 1242095.  
3750 - mean_absolute_error: 822.9991 - val_loss: 37044.8203 -  
val_mean_absolute_error: 165.8497
```

```
472 Epoch 236/300
473 43/43 [=====] - 0s 2ms/step - loss: 1312737.
    7500 - mean_absolute_error: 838.5218 - val_loss: 36726.3750 -
    val_mean_absolute_error: 164.9322
474 Epoch 237/300
475 43/43 [=====] - 0s 2ms/step - loss: 1272306.
    8750 - mean_absolute_error: 842.7821 - val_loss: 36314.3047 -
    val_mean_absolute_error: 163.8977
476 Epoch 238/300
477 43/43 [=====] - 0s 2ms/step - loss: 1236676.
    0000 - mean_absolute_error: 814.5732 - val_loss: 36933.7266 -
    val_mean_absolute_error: 164.2875
478 Epoch 239/300
479 43/43 [=====] - 0s 2ms/step - loss: 1303642.
    1250 - mean_absolute_error: 843.1133 - val_loss: 36998.4453 -
    val_mean_absolute_error: 163.9438
480 Epoch 240/300
481 43/43 [=====] - 0s 2ms/step - loss: 1315895.
    0000 - mean_absolute_error: 846.3127 - val_loss: 34232.9102 -
    val_mean_absolute_error: 159.8209
482 Epoch 241/300
483 43/43 [=====] - 0s 2ms/step - loss: 12999566.
    5000 - mean_absolute_error: 863.3152 - val_loss: 33828.9219 -
```

```
483 val_mean_absolute_error: 158.8634
484 Epoch 242/300
485 43/43 [=====] - 0s 2ms/step - loss: 1307958.
0000 - mean_absolute_error: 853.8951 - val_loss: 34233.6211 -
val_mean_absolute_error: 158.8527
486 Epoch 243/300
487 43/43 [=====] - 0s 2ms/step - loss: 1295558.
7500 - mean_absolute_error: 843.7673 - val_loss: 33332.5391 -
val_mean_absolute_error: 156.9914
488 Epoch 244/300
489 43/43 [=====] - 0s 2ms/step - loss: 1274168.
1250 - mean_absolute_error: 829.3987 - val_loss: 33092.7539 -
val_mean_absolute_error: 156.0547
490 Epoch 245/300
491 43/43 [=====] - 0s 2ms/step - loss: 1263572.
8750 - mean_absolute_error: 841.9022 - val_loss: 31921.4297 -
val_mean_absolute_error: 153.7359
492 Epoch 246/300
493 43/43 [=====] - 0s 2ms/step - loss: 1315829.
0000 - mean_absolute_error: 863.1895 - val_loss: 31585.6621 -
val_mean_absolute_error: 152.7655
494 Epoch 247/300
495 43/43 [=====] - 0s 2ms/step - loss: 1224576.
```

```
495 6250 - mean_absolute_error: 825.9762 - val_loss: 31820.5703 -
    val_mean_absolute_error: 152.6193
496 Epoch 248/300
497 43/43 [=====] - 0s 2ms/step - Loss: 1289605.
1250 - mean_absolute_error: 845.2473 - val_loss: 32109.8613 -
    val_mean_absolute_error: 152.1999
498 Epoch 249/300
499 43/43 [=====] - 0s 2ms/step - Loss: 1332189.
5000 - mean_absolute_error: 889.4236 - val_loss: 30855.0977 -
    val_mean_absolute_error: 149.2841
500 Epoch 250/300
501 43/43 [=====] - 0s 2ms/step - Loss: 1320385.
2500 - mean_absolute_error: 854.9858 - val_loss: 30200.9199 -
    val_mean_absolute_error: 147.9162
502 Epoch 251/300
503 43/43 [=====] - 0s 2ms/step - Loss: 1261634.
8750 - mean_absolute_error: 837.7883 - val_loss: 30493.7617 -
    val_mean_absolute_error: 148.0764
504 Epoch 252/300
505 43/43 [=====] - 0s 2ms/step - Loss: 1234507.
0000 - mean_absolute_error: 842.9084 - val_loss: 31143.2598 -
    val_mean_absolute_error: 148.7201
506 Epoch 253/300
```

```
507 43/43 [=====] - 0s 2ms/step - loss: 1290442.  
2500 - mean_absolute_error: 856.6173 - val_loss: 31562.3203 -  
val_mean_absolute_error: 148.6436  
508 Epoch 254/300  
509 43/43 [=====] - 0s 2ms/step - loss: 1214724.  
7500 - mean_absolute_error: 830.9962 - val_loss: 32137.2500 -  
val_mean_absolute_error: 148.5288  
510 Epoch 255/300  
511 43/43 [=====] - 0s 2ms/step - loss: 1233720.  
5000 - mean_absolute_error: 832.2531 - val_loss: 34248.9336 -  
val_mean_absolute_error: 151.1428  
512 Epoch 256/300  
513 43/43 [=====] - 0s 2ms/step - loss: 1243727.  
5000 - mean_absolute_error: 840.2409 - val_loss: 32675.0625 -  
val_mean_absolute_error: 147.8998  
514 Epoch 257/300  
515 43/43 [=====] - 0s 2ms/step - loss: 1235030.  
2500 - mean_absolute_error: 845.4954 - val_loss: 35808.6914 -  
val_mean_absolute_error: 153.6420  
516 Epoch 258/300  
517 43/43 [=====] - 0s 2ms/step - loss: 1281813.  
2500 - mean_absolute_error: 838.6243 - val_loss: 32562.1152 -  
val_mean_absolute_error: 147.7580
```

```
518 Epoch 259/300
519 43/43 [=====] - 0s 2ms/step - loss: 1286191.
2500 - mean_absolute_error: 857.3640 - val_loss: 31033.0996 -
val_mean_absolute_error: 146.1245

520 Epoch 260/300
521 43/43 [=====] - 0s 2ms/step - loss: 1252023.
0000 - mean_absolute_error: 847.3345 - val_loss: 32877.4141 -
val_mean_absolute_error: 148.6030

522 Epoch 261/300
523 43/43 [=====] - 0s 2ms/step - loss: 1249954.
6250 - mean_absolute_error: 844.9789 - val_loss: 32981.8242 -
val_mean_absolute_error: 148.6677

524 Epoch 262/300
525 43/43 [=====] - 0s 2ms/step - loss: 1206614.
2500 - mean_absolute_error: 818.9781 - val_loss: 33571.5586 -
val_mean_absolute_error: 148.6677

526 Epoch 263/300
527 43/43 [=====] - 0s 2ms/step - loss: 1213317.
5000 - mean_absolute_error: 845.8565 - val_loss: 33544.4258 -
val_mean_absolute_error: 149.8365

528 Epoch 264/300
529 43/43 [=====] - 0s 2ms/step - loss: 1287232.
2500 - mean_absolute_error: 851.1148 - val_loss: 33207.3320 -
```

```
529 val_mean_absolute_error: 148.1690
530 Epoch 265/300
531 43/43 [=====] - 0s 2ms/step - loss: 1214062.
0000 - mean_absolute_error: 827.6270 - val_loss: 34215.8789 -
val_mean_absolute_error: 149.2300
532 Epoch 266/300
533 43/43 [=====] - 0s 2ms/step - loss: 1270908.
5000 - mean_absolute_error: 852.2134 - val_loss: 34209.7109 -
val_mean_absolute_error: 148.7865
534 Epoch 267/300
535 43/43 [=====] - 0s 2ms/step - loss: 1223345.
8750 - mean_absolute_error: 827.4651 - val_loss: 33897.0547 -
val_mean_absolute_error: 147.6754
536 Epoch 268/300
537 43/43 [=====] - 0s 2ms/step - loss: 1220819.
0000 - mean_absolute_error: 833.3795 - val_loss: 34144.1602 -
val_mean_absolute_error: 147.7007
538 Epoch 269/300
539 43/43 [=====] - 0s 2ms/step - loss: 1213541.
7500 - mean_absolute_error: 827.4208 - val_loss: 33286.3633 -
val_mean_absolute_error: 146.1064
540 Epoch 270/300
541 43/43 [=====] - 0s 2ms/step - loss: 1315821.
```

```
541 8750 - mean_absolute_error: 873.6323 - val_loss: 31572.8086 -
    val_mean_absolute_error: 143.3552
542 Epoch 271/300
543 43/43 [=====] - 0s 2ms/step - Loss: 1303293.
5000 - mean_absolute_error: 868.5128 - val_loss: 33100.8281 -
    val_mean_absolute_error: 146.4232
544 Epoch 272/300
545 43/43 [=====] - 0s 2ms/step - Loss: 1227817.
6250 - mean_absolute_error: 840.9413 - val_loss: 33227.8086 -
    val_mean_absolute_error: 145.3641
546 Epoch 273/300
547 43/43 [=====] - 0s 2ms/step - Loss: 1252361.
8750 - mean_absolute_error: 836.1127 - val_loss: 31124.8379 -
    val_mean_absolute_error: 141.4331
548 Epoch 274/300
549 43/43 [=====] - 0s 2ms/step - Loss: 1195594.
2500 - mean_absolute_error: 835.5658 - val_loss: 33735.0508 -
    val_mean_absolute_error: 145.2984
550 Epoch 275/300
551 43/43 [=====] - 0s 2ms/step - Loss: 1207684.
7500 - mean_absolute_error: 831.9417 - val_loss: 34970.2305 -
    val_mean_absolute_error: 147.5136
552 Epoch 276/300
```

```
553 43/43 [=====] - 0s 2ms/step - loss: 1265140.  
3750 - mean_absolute_error: 873.4746 - val_loss: 32965.2656 -  
val_mean_absolute_error: 145.1107  
554 Epoch 277/300  
555 43/43 [=====] - 0s 2ms/step - loss: 1209165.  
5000 - mean_absolute_error: 839.1608 - val_loss: 34391.6055 -  
val_mean_absolute_error: 147.8754  
556 Epoch 278/300  
557 43/43 [=====] - 0s 2ms/step - loss: 1241207.  
2500 - mean_absolute_error: 837.3616 - val_loss: 33786.4141 -  
val_mean_absolute_error: 146.8851  
558 Epoch 279/300  
559 43/43 [=====] - 0s 2ms/step - loss: 1303696.  
5000 - mean_absolute_error: 878.7974 - val_loss: 32346.9590 -  
val_mean_absolute_error: 144.3115  
560 Epoch 280/300  
561 43/43 [=====] - 0s 2ms/step - loss: 1238367.  
8750 - mean_absolute_error: 843.5573 - val_loss: 32973.3828 -  
val_mean_absolute_error: 144.9215  
562 Epoch 281/300  
563 43/43 [=====] - 0s 2ms/step - loss: 1209756.  
2500 - mean_absolute_error: 841.4077 - val_loss: 36111.4805 -  
val_mean_absolute_error: 149.7349
```

```
564 Epoch 282/300
565 43/43 [=====] - 0s 2ms/step - loss: 1256999.
2500 - mean_absolute_error: 842.0700 - val_loss: 33681.1836 -
val_mean_absolute_error: 145.1037

566 Epoch 283/300
567 43/43 [=====] - 0s 2ms/step - loss: 1254919.
7500 - mean_absolute_error: 840.7504 - val_loss: 32326.2793 -
val_mean_absolute_error: 142.9787

568 Epoch 284/300
569 43/43 [=====] - 0s 2ms/step - loss: 1279267.
2500 - mean_absolute_error: 858.8434 - val_loss: 33181.2305 -
val_mean_absolute_error: 144.0064

570 Epoch 285/300
571 43/43 [=====] - 0s 2ms/step - loss: 1229412.
7500 - mean_absolute_error: 831.6697 - val_loss: 35376.0820 -
val_mean_absolute_error: 147.5563

572 Epoch 286/300
573 43/43 [=====] - 0s 2ms/step - loss: 1282179.
0000 - mean_absolute_error: 845.0229 - val_loss: 33045.5820 -
val_mean_absolute_error: 143.5139

574 Epoch 287/300
575 43/43 [=====] - 0s 2ms/step - loss: 1279532.
2500 - mean_absolute_error: 859.7631 - val_loss: 32830.4336 -
```

```
575 val_mean_absolute_error: 143.4511
576 Epoch 288/300
577 43/43 [=====] - 0s 2ms/step - loss: 1257747.
2500 - mean_absolute_error: 853.9608 - val_loss: 33495.3750 -
val_mean_absolute_error: 144.2207
578 Epoch 289/300
579 43/43 [=====] - 0s 2ms/step - loss: 1309903.
1250 - mean_absolute_error: 884.8174 - val_loss: 32993.9180 -
val_mean_absolute_error: 143.2685
580 Epoch 290/300
581 43/43 [=====] - 0s 2ms/step - loss: 1238495.
8750 - mean_absolute_error: 865.4274 - val_loss: 32199.1641 -
val_mean_absolute_error: 142.1236
582 Epoch 291/300
583 43/43 [=====] - 0s 2ms/step - loss: 1290356.
3750 - mean_absolute_error: 863.5447 - val_loss: 32921.1445 -
val_mean_absolute_error: 142.8343
584 Epoch 292/300
585 43/43 [=====] - 0s 2ms/step - loss: 1285090.
2500 - mean_absolute_error: 860.7587 - val_loss: 32402.1113 -
val_mean_absolute_error: 141.7086
586 Epoch 293/300
587 43/43 [=====] - 0s 2ms/step - loss: 1201048.
```

```
587 0000 - mean_absolute_error: 839.1768 - val_loss: 33132.7070 -
val_mean_absolute_error: 141.8396
588 Epoch 294/300
589 43/43 [=====] - 0s 2ms/step - Loss: 1238818.
8750 - mean_absolute_error: 849.2902 - val_loss: 31277.0273 -
val_mean_absolute_error: 138.6135
590 Epoch 295/300
591 43/43 [=====] - 0s 2ms/step - Loss: 1278708.
7500 - mean_absolute_error: 866.0739 - val_loss: 34140.3086 -
val_mean_absolute_error: 142.7330
592 Epoch 296/300
593 43/43 [=====] - 0s 2ms/step - Loss: 1293807.
7500 - mean_absolute_error: 869.1711 - val_loss: 31979.4961 -
val_mean_absolute_error: 139.2343
594 Epoch 297/300
595 43/43 [=====] - 0s 2ms/step - Loss: 1195972.
3750 - mean_absolute_error: 842.5100 - val_loss: 31868.0938 -
val_mean_absolute_error: 138.8784
596 Epoch 298/300
597 43/43 [=====] - 0s 2ms/step - Loss: 1346620.
3750 - mean_absolute_error: 886.6271 - val_loss: 32730.5566 -
val_mean_absolute_error: 140.4175
598 Epoch 299/300
```

```

599 43/43 [=====] - 0s 2ms/step - loss: 1275895.
600   2500 - mean_absolute_error: 863.3746 - val_loss: 33304.6523 -
601   val_mean_absolute_error: 141.1565
602 Epoch 300/300
603 43/43 [=====] - 0s 2ms/step - loss: 1256541.
604   7500 - mean_absolute_error: 855.5695 - val_loss: 32608.0039 -
605   val_mean_absolute_error: 140.2208
606   6/6 [=====] - 0s 548us/step
607   6/6 [=====] - 0s 603us/step
608   6/6 [=====] - 0s 765us/step
609 Train Data Mean Absolute Error (MAE): 773.1950073242188
610 Train Data Mean Absolute Percentage Error (MAPE): 2.0969998836517334
611 Train Data Root Mean Squared Error (RMSE): 895.282
612 Validation Data Mean Absolute Error (MAE): 140.2209930419922
613 Validation Data Mean Absolute Percentage Error (MAPE): 0.
614 09600000083446503
615 Validation Data Root Mean Squared Error (RMSE): 180.577
616 Testing Data Mean Absolute Error (MAE): 129.66700744628906
617 Testing Data Mean Absolute Percentage Error (MAPE): 0.08500000089406967
618 Testing Data Root Mean Squared Error (RMSE): 169.529
619
620 Variable N Mean SD SE 95% Conf. Interval

```

```

617 0 Close 1359.0 1186.2891 460.1694 12.4827 1161.8017 1210.7765
618 The Train Count is: 1359
619 The Train Max is: 2371.0618
620 The Train Min is: 797.5642
621 The Train Kurtosis is: -0.7625641669449075
622 The Train Skew is: 0.8593358434528487
623 ----

```

```

624
625
626 Variable N Mean SD 95% Conf. Interval
627 0 Close 169.0 1469.0529 359.2122 27.6317 1414.5028 1523.603
628 The Validation Count is: 169
629 The Validation Max is: 2368.533
630 The Validation Min is: 844.4411
631 The Validation Kurtosis is: -0.7766516084325534
632 The Validation Skew is: 0.471894276462768
633 ----

```

```

634
635
636 Variable N Mean SD 95% Conf. Interval
637 0 Close 170.0 1659.105 372.7468 28.5884 1602.6687 1715.5413

```

```
638 The Test Count is: 170
639 The Test Max is: 2371.7732
640 The Test Min is: 840.38416
641 The Test Kurtosis is: 0.02984786526076455
642 The Test Skew is: -0.7856642614667919
643
644 Process finished with exit code 0
645
```