

```

1 /Users/snehamishra/PycharmProjects/Test/venv/bin/python /
  Users/snehamishra/Desktop/UMKC/Fall2018/Python/Python-
  DeepLearning_Fall2018/Mod2_Lab1/Source/DeepLearning_Lesson2
  /mod2_Lab1_1.py
2 Using TensorFlow backend.
3 Index(['Sex', 'Length', 'Diameter', 'Height', 'Whole_Weight',
4         'Shucked_Weight', 'Viscera_Weight', 'Shell_Weight', 'Age'],
5        dtype='object')
6   Sex      Length     Diameter ...     Viscera_Weight     Shell_Weight
7   Age
8 0    M      0.455      0.365 ...      0.1010      0.150
9 1    M      0.350      0.265 ...      0.0485      0.070
10 2   F      0.530      0.420 ...      0.1415      0.210
11 3    M      0.440      0.365 ...      0.1140      0.155
12 4    I      0.330      0.255 ...      0.0395      0.055
13 [5 rows x 9 columns]
14 <class 'pandas.core.frame.DataFrame'>
15 RangeIndex: 4177 entries, 0 to 4176
16 Data columns (total 9 columns):
17 Sex            4177 non-null object
18 Length          4177 non-null float64
19 Diameter        4177 non-null float64
20 Height          4177 non-null float64
21 Whole_Weight    4177 non-null float64
22 Shucked_Weight  4177 non-null float64
23 Viscera_Weight  4177 non-null float64
24 Shell_Weight    4177 non-null float64
25 Age             4177 non-null float64
26 dtypes: float64(8), object(1)
27 memory usage: 293.8+ KB
28 None
29           Length     Diameter ...     Shell_Weight
30 count  4177.000000  4177.000000 ...  4177.000000
31 mean   0.523992    0.407881 ...  0.238831
32 std    0.120093    0.099240 ...  0.139203
33 min    0.075000    0.055000 ...  0.001500
34 25%   0.450000    0.350000 ...  0.130000

```

File - unknown

35	50%	0.545000	0.425000	...	0.234000
		10.500000			
36	75%	0.615000	0.480000	...	0.329000
		12.500000			
37	max	0.815000	0.650000	...	1.005000
		30.500000			
38					
39	[8 rows x 8 columns]				
40		Length	Diameter	...	Viscera_Weight
		Shell_Weight			
41	1376	0.620	0.510	...	0.2385
		0.390			
42	1225	0.345	0.255	...	0.0370
		0.050			
43	2722	0.375	0.275	...	0.0545
		0.066			
44	3387	0.545	0.410	...	0.1960
		0.310			
45	2773	0.580	0.465	...	0.2155
		0.250			
46					
47	[5 rows x 7 columns]				
48	668	14.5			
49	1580	9.5			
50	3784	12.5			
51	463	6.5			
52	2615	13.5			
53	Name: Age, dtype: float64				
54	Training shape: (2923, 7)				
55	Validation (2923,)				
56	Training samples: 2923				
57	Validation samples: 1254				
58	_____				
59	Layer (type)		Output Shape		
	Param #				
60	=====				
	=====				
61	dense_1 (Dense)		(None, 100)		800
62	_____				
63	dropout_1 (Dropout)		(None, 100)		0
64	_____				
65	dense_2 (Dense)		(None, 50)		5050
66	_____				

```
67 dense_3 (Dense)          (None, 20)
  1020
68 _____
69 dense_4 (Dense)          (None, 1)           21
70 =====
  =====
71 Total params: 6,891
72 Trainable params: 6,891
73 Non-trainable params: 0
74 _____
75 Train on 2923 samples, validate on 1254 samples
76 2018-11-07 17:50:50.429360: I tensorflow/core/platform/
  cpu_feature_guard.cc:141] Your CPU supports instructions
  that this TensorFlow binary was not compiled to use: AVX2
  FMA
77 Epoch 1/800
78   - 0s - loss: 45.2660 - mean_absolute_error: 5.3373 -
  val_loss: 13.4057 - val_mean_absolute_error: 2.9432
79 Epoch 2/800
80   - 0s - loss: 8.6425 - mean_absolute_error: 2.2214 -
  val_loss: 6.6051 - val_mean_absolute_error: 1.9348
81 Epoch 3/800
82   - 0s - loss: 7.2197 - mean_absolute_error: 2.0415 -
  val_loss: 6.2295 - val_mean_absolute_error: 1.7263
83 Epoch 4/800
84   - 0s - loss: 6.8518 - mean_absolute_error: 1.9848 -
  val_loss: 5.5267 - val_mean_absolute_error: 1.7696
85 Epoch 5/800
86   - 0s - loss: 6.4131 - mean_absolute_error: 1.9185 -
  val_loss: 7.4814 - val_mean_absolute_error: 2.0838
87 Epoch 6/800
88   - 0s - loss: 6.1145 - mean_absolute_error: 1.8409 -
  val_loss: 5.5306 - val_mean_absolute_error: 1.6324
89 Epoch 7/800
90   - 0s - loss: 5.9560 - mean_absolute_error: 1.8185 -
  val_loss: 4.8807 - val_mean_absolute_error: 1.6010
91 Epoch 8/800
92   - 0s - loss: 5.9037 - mean_absolute_error: 1.8050 -
  val_loss: 5.4842 - val_mean_absolute_error: 1.6959
93 Epoch 9/800
94   - 0s - loss: 5.7706 - mean_absolute_error: 1.7926 -
  val_loss: 6.7188 - val_mean_absolute_error: 2.0308
95 Epoch 10/800
96   - 0s - loss: 5.7618 - mean_absolute_error: 1.7763 -
  val_loss: 5.2651 - val_mean_absolute_error: 1.6234
97 Epoch 11/800
98   - 0s - loss: 5.6133 - mean_absolute_error: 1.7564 -
```

```
98 val_loss: 5.0503 - val_mean_absolute_error: 1.5791
99 Epoch 12/800
100 - 0s - loss: 5.5597 - mean_absolute_error: 1.7635 -
    val_loss: 4.8975 - val_mean_absolute_error: 1.6720
101 Epoch 13/800
102 - 0s - loss: 5.6015 - mean_absolute_error: 1.7755 -
    val_loss: 5.1209 - val_mean_absolute_error: 1.6927
103 Epoch 14/800
104 - 0s - loss: 5.2823 - mean_absolute_error: 1.7195 -
    val_loss: 5.9446 - val_mean_absolute_error: 1.8294
105 Epoch 15/800
106 - 0s - loss: 5.4393 - mean_absolute_error: 1.7243 -
    val_loss: 7.9547 - val_mean_absolute_error: 2.0353
107 Epoch 16/800
108 - 0s - loss: 5.4558 - mean_absolute_error: 1.7283 -
    val_loss: 5.0738 - val_mean_absolute_error: 1.5805
109 Epoch 17/800
110 - 0s - loss: 5.0572 - mean_absolute_error: 1.6653 -
    val_loss: 5.1235 - val_mean_absolute_error: 1.6444
111 Epoch 18/800
112 - 0s - loss: 5.5652 - mean_absolute_error: 1.7540 -
    val_loss: 8.1882 - val_mean_absolute_error: 2.0501
113 Epoch 19/800
114 - 0s - loss: 5.3960 - mean_absolute_error: 1.6965 -
    val_loss: 4.4725 - val_mean_absolute_error: 1.4856
115 Epoch 20/800
116 - 0s - loss: 5.2185 - mean_absolute_error: 1.6805 -
    val_loss: 4.7005 - val_mean_absolute_error: 1.5743
117 Epoch 21/800
118 - 0s - loss: 4.9821 - mean_absolute_error: 1.6435 -
    val_loss: 4.6949 - val_mean_absolute_error: 1.5765
119 Epoch 22/800
120 - 0s - loss: 4.9742 - mean_absolute_error: 1.6425 -
    val_loss: 4.5050 - val_mean_absolute_error: 1.5158
121 Epoch 23/800
122 - 0s - loss: 5.1478 - mean_absolute_error: 1.6747 -
    val_loss: 4.7101 - val_mean_absolute_error: 1.6198
123 Epoch 24/800
124 - 0s - loss: 5.3602 - mean_absolute_error: 1.6966 -
    val_loss: 6.2751 - val_mean_absolute_error: 1.7281
125 Epoch 25/800
126 - 0s - loss: 4.7750 - mean_absolute_error: 1.5936 -
    val_loss: 5.6113 - val_mean_absolute_error: 1.8677
127 Epoch 26/800
128 - 0s - loss: 5.3552 - mean_absolute_error: 1.7261 -
    val_loss: 6.0369 - val_mean_absolute_error: 1.6864
129 Epoch 27/800
130 - 0s - loss: 5.0744 - mean_absolute_error: 1.6464 -
    val_loss: 4.5170 - val_mean_absolute_error: 1.5051
131 Epoch 28/800
```

```
132 - 0s - loss: 5.0072 - mean_absolute_error: 1.6218 -  
    val_loss: 5.5214 - val_mean_absolute_error: 1.6917  
133 Epoch 29/800  
134 - 0s - loss: 5.0821 - mean_absolute_error: 1.6453 -  
    val_loss: 6.1202 - val_mean_absolute_error: 1.9629  
135 Epoch 30/800  
136 - 0s - loss: 4.9601 - mean_absolute_error: 1.6419 -  
    val_loss: 4.7153 - val_mean_absolute_error: 1.4858  
137 Epoch 31/800  
138 - 0s - loss: 4.9549 - mean_absolute_error: 1.6182 -  
    val_loss: 4.5691 - val_mean_absolute_error: 1.4903  
139 Epoch 32/800  
140 - 0s - loss: 4.9904 - mean_absolute_error: 1.6201 -  
    val_loss: 4.4950 - val_mean_absolute_error: 1.4648  
141 Epoch 33/800  
142 - 0s - loss: 4.9166 - mean_absolute_error: 1.6135 -  
    val_loss: 4.5723 - val_mean_absolute_error: 1.5048  
143 Epoch 34/800  
144 - 0s - loss: 4.9015 - mean_absolute_error: 1.6090 -  
    val_loss: 4.7107 - val_mean_absolute_error: 1.4862  
145 Epoch 35/800  
146 - 0s - loss: 4.9048 - mean_absolute_error: 1.6107 -  
    val_loss: 5.0197 - val_mean_absolute_error: 1.6467  
147 Epoch 36/800  
148 - 0s - loss: 4.8991 - mean_absolute_error: 1.6207 -  
    val_loss: 5.9052 - val_mean_absolute_error: 1.7871  
149 Epoch 37/800  
150 - 0s - loss: 5.0546 - mean_absolute_error: 1.6395 -  
    val_loss: 5.0003 - val_mean_absolute_error: 1.6174  
151 Epoch 38/800  
152 - 0s - loss: 4.9488 - mean_absolute_error: 1.6109 -  
    val_loss: 5.4071 - val_mean_absolute_error: 1.5845  
153 Epoch 39/800  
154 - 0s - loss: 4.7235 - mean_absolute_error: 1.5711 -  
    val_loss: 4.5395 - val_mean_absolute_error: 1.5270  
155 Epoch 40/800  
156 - 0s - loss: 4.8454 - mean_absolute_error: 1.6088 -  
    val_loss: 6.0155 - val_mean_absolute_error: 1.6717  
157 Epoch 41/800  
158 - 0s - loss: 4.8271 - mean_absolute_error: 1.5899 -  
    val_loss: 4.9025 - val_mean_absolute_error: 1.5891  
159 Epoch 42/800  
160 - 0s - loss: 4.9506 - mean_absolute_error: 1.6219 -  
    val_loss: 5.1830 - val_mean_absolute_error: 1.6923  
161 Epoch 43/800  
162 - 0s - loss: 4.7723 - mean_absolute_error: 1.5901 -  
    val_loss: 4.5550 - val_mean_absolute_error: 1.5503  
163 Epoch 44/800  
164 - 0s - loss: 4.9453 - mean_absolute_error: 1.6304 -  
    val_loss: 5.3012 - val_mean_absolute_error: 1.5822
```

```
165 Epoch 45/800
166 - 0s - loss: 4.7581 - mean_absolute_error: 1.5929 -
      val_loss: 4.7459 - val_mean_absolute_error: 1.5065
167 Epoch 46/800
168 - 0s - loss: 4.7759 - mean_absolute_error: 1.6025 -
      val_loss: 4.9629 - val_mean_absolute_error: 1.5073
169 Epoch 47/800
170 - 0s - loss: 4.6291 - mean_absolute_error: 1.5963 -
      val_loss: 4.9466 - val_mean_absolute_error: 1.5686
171 Epoch 48/800
172 - 0s - loss: 4.8918 - mean_absolute_error: 1.6156 -
      val_loss: 4.9348 - val_mean_absolute_error: 1.5649
173 Epoch 49/800
174 - 0s - loss: 4.6306 - mean_absolute_error: 1.5598 -
      val_loss: 4.9262 - val_mean_absolute_error: 1.5075
175 Epoch 50/800
176 - 0s - loss: 4.7837 - mean_absolute_error: 1.5786 -
      val_loss: 5.1872 - val_mean_absolute_error: 1.5431
177 Epoch 51/800
178 - 0s - loss: 4.7994 - mean_absolute_error: 1.5985 -
      val_loss: 4.7045 - val_mean_absolute_error: 1.6112
179 Epoch 52/800
180 - 0s - loss: 4.6322 - mean_absolute_error: 1.5761 -
      val_loss: 4.8643 - val_mean_absolute_error: 1.5472
181 Epoch 53/800
182 - 0s - loss: 4.6340 - mean_absolute_error: 1.5587 -
      val_loss: 4.8739 - val_mean_absolute_error: 1.6369
183 Epoch 54/800
184 - 0s - loss: 4.8570 - mean_absolute_error: 1.5924 -
      val_loss: 4.5843 - val_mean_absolute_error: 1.5034
185 Epoch 55/800
186 - 0s - loss: 4.8276 - mean_absolute_error: 1.5970 -
      val_loss: 4.5258 - val_mean_absolute_error: 1.4928
187 Epoch 56/800
188 - 0s - loss: 4.8161 - mean_absolute_error: 1.5895 -
      val_loss: 4.7321 - val_mean_absolute_error: 1.6223
189 Epoch 57/800
190 - 0s - loss: 4.6376 - mean_absolute_error: 1.5758 -
      val_loss: 5.5761 - val_mean_absolute_error: 1.8008
191 Epoch 58/800
192 - 0s - loss: 4.8862 - mean_absolute_error: 1.6028 -
      val_loss: 5.2416 - val_mean_absolute_error: 1.6559
193 Epoch 59/800
194 - 0s - loss: 4.5961 - mean_absolute_error: 1.5599 -
      val_loss: 4.7677 - val_mean_absolute_error: 1.5100
195 Epoch 60/800
196 - 0s - loss: 4.5622 - mean_absolute_error: 1.5590 -
      val_loss: 5.3885 - val_mean_absolute_error: 1.6165
197 Epoch 61/800
198 - 0s - loss: 4.6325 - mean_absolute_error: 1.5493 -
```

```
198 val_loss: 5.2849 - val_mean_absolute_error: 1.6951
199 Epoch 62/800
200 - 0s - loss: 4.7318 - mean_absolute_error: 1.5857 -
    val_loss: 5.5304 - val_mean_absolute_error: 1.6758
201 Epoch 63/800
202 - 0s - loss: 4.8212 - mean_absolute_error: 1.5946 -
    val_loss: 4.7304 - val_mean_absolute_error: 1.6196
203 Epoch 64/800
204 - 0s - loss: 4.8040 - mean_absolute_error: 1.5934 -
    val_loss: 4.6874 - val_mean_absolute_error: 1.4913
205 Epoch 65/800
206 - 0s - loss: 4.4348 - mean_absolute_error: 1.5294 -
    val_loss: 5.6020 - val_mean_absolute_error: 1.6918
207 Epoch 66/800
208 - 0s - loss: 4.7337 - mean_absolute_error: 1.5781 -
    val_loss: 5.7282 - val_mean_absolute_error: 1.6290
209 Epoch 67/800
210 - 0s - loss: 4.7515 - mean_absolute_error: 1.5871 -
    val_loss: 4.5228 - val_mean_absolute_error: 1.4737
211 Epoch 68/800
212 - 0s - loss: 4.6447 - mean_absolute_error: 1.5690 -
    val_loss: 4.8437 - val_mean_absolute_error: 1.5068
213 Epoch 69/800
214 - 0s - loss: 4.6171 - mean_absolute_error: 1.5701 -
    val_loss: 4.5111 - val_mean_absolute_error: 1.4885
215 Epoch 70/800
216 - 0s - loss: 4.5685 - mean_absolute_error: 1.5339 -
    val_loss: 4.5645 - val_mean_absolute_error: 1.5406
217 Epoch 71/800
218 - 0s - loss: 4.7584 - mean_absolute_error: 1.5939 -
    val_loss: 4.8512 - val_mean_absolute_error: 1.5075
219 Epoch 72/800
220 - 0s - loss: 4.6144 - mean_absolute_error: 1.5593 -
    val_loss: 4.6643 - val_mean_absolute_error: 1.4814
221 Epoch 73/800
222 - 0s - loss: 4.6443 - mean_absolute_error: 1.5529 -
    val_loss: 4.6759 - val_mean_absolute_error: 1.4803
223 Epoch 74/800
224 - 0s - loss: 4.5334 - mean_absolute_error: 1.5411 -
    val_loss: 4.9798 - val_mean_absolute_error: 1.7059
225 Epoch 75/800
226 - 0s - loss: 4.5911 - mean_absolute_error: 1.5771 -
    val_loss: 6.0343 - val_mean_absolute_error: 1.7375
227 Epoch 76/800
228 - 0s - loss: 4.7405 - mean_absolute_error: 1.5732 -
    val_loss: 4.9077 - val_mean_absolute_error: 1.5432
229 Epoch 77/800
230 - 0s - loss: 4.4404 - mean_absolute_error: 1.5252 -
    val_loss: 4.6426 - val_mean_absolute_error: 1.5077
231 Epoch 78/800
```

```
232 - 0s - loss: 4.6247 - mean_absolute_error: 1.5600 -  
    val_loss: 4.9742 - val_mean_absolute_error: 1.5076  
233 Epoch 79/800  
234 - 0s - loss: 4.5048 - mean_absolute_error: 1.5426 -  
    val_loss: 4.5853 - val_mean_absolute_error: 1.4895  
235 Epoch 80/800  
236 - 0s - loss: 4.6676 - mean_absolute_error: 1.5673 -  
    val_loss: 4.7773 - val_mean_absolute_error: 1.4972  
237 Epoch 81/800  
238 - 0s - loss: 4.5750 - mean_absolute_error: 1.5555 -  
    val_loss: 4.7392 - val_mean_absolute_error: 1.5521  
239 Epoch 82/800  
240 - 0s - loss: 4.6373 - mean_absolute_error: 1.5616 -  
    val_loss: 4.5089 - val_mean_absolute_error: 1.5297  
241 Epoch 83/800  
242 - 0s - loss: 4.4567 - mean_absolute_error: 1.5316 -  
    val_loss: 6.3306 - val_mean_absolute_error: 1.8893  
243 Epoch 84/800  
244 - 0s - loss: 4.5361 - mean_absolute_error: 1.5475 -  
    val_loss: 4.6252 - val_mean_absolute_error: 1.4964  
245 Epoch 85/800  
246 - 0s - loss: 4.5484 - mean_absolute_error: 1.5505 -  
    val_loss: 4.5166 - val_mean_absolute_error: 1.4856  
247 Epoch 86/800  
248 - 0s - loss: 4.4916 - mean_absolute_error: 1.5298 -  
    val_loss: 4.6915 - val_mean_absolute_error: 1.5624  
249 Epoch 87/800  
250 - 0s - loss: 4.5412 - mean_absolute_error: 1.5575 -  
    val_loss: 4.7550 - val_mean_absolute_error: 1.4855  
251 Epoch 88/800  
252 - 0s - loss: 4.5738 - mean_absolute_error: 1.5540 -  
    val_loss: 4.6407 - val_mean_absolute_error: 1.5039  
253 Epoch 89/800  
254 - 0s - loss: 4.4254 - mean_absolute_error: 1.5295 -  
    val_loss: 4.6525 - val_mean_absolute_error: 1.4858  
255 Epoch 90/800  
256 - 0s - loss: 4.5486 - mean_absolute_error: 1.5482 -  
    val_loss: 6.5002 - val_mean_absolute_error: 1.7589  
257 Epoch 91/800  
258 - 0s - loss: 4.6398 - mean_absolute_error: 1.5594 -  
    val_loss: 5.6677 - val_mean_absolute_error: 1.6571  
259 Epoch 92/800  
260 - 0s - loss: 4.6800 - mean_absolute_error: 1.5844 -  
    val_loss: 5.0935 - val_mean_absolute_error: 1.5422  
261 Epoch 93/800  
262 - 0s - loss: 4.4864 - mean_absolute_error: 1.5364 -  
    val_loss: 4.6625 - val_mean_absolute_error: 1.5858  
263 Epoch 94/800  
264 - 0s - loss: 4.5821 - mean_absolute_error: 1.5547 -  
    val_loss: 4.6441 - val_mean_absolute_error: 1.5148
```

```
265 Epoch 95/800
266 - 0s - loss: 4.4965 - mean_absolute_error: 1.5304 -
      val_loss: 4.5666 - val_mean_absolute_error: 1.4998
267 Epoch 96/800
268 - 0s - loss: 4.5339 - mean_absolute_error: 1.5448 -
      val_loss: 4.5914 - val_mean_absolute_error: 1.5265
269 Epoch 97/800
270 - 0s - loss: 4.4177 - mean_absolute_error: 1.5238 -
      val_loss: 5.0114 - val_mean_absolute_error: 1.5219
271 Epoch 98/800
272 - 0s - loss: 4.3713 - mean_absolute_error: 1.5256 -
      val_loss: 4.5153 - val_mean_absolute_error: 1.5237
273 Epoch 99/800
274 - 0s - loss: 4.5202 - mean_absolute_error: 1.5352 -
      val_loss: 4.7513 - val_mean_absolute_error: 1.5844
275 Epoch 100/800
276 - 0s - loss: 4.5176 - mean_absolute_error: 1.5458 -
      val_loss: 4.6384 - val_mean_absolute_error: 1.5283
277 Epoch 101/800
278 - 0s - loss: 4.4858 - mean_absolute_error: 1.5439 -
      val_loss: 5.3430 - val_mean_absolute_error: 1.6431
279 Epoch 102/800
280 - 0s - loss: 4.5107 - mean_absolute_error: 1.5273 -
      val_loss: 5.0404 - val_mean_absolute_error: 1.6918
281 Epoch 103/800
282 - 0s - loss: 4.5060 - mean_absolute_error: 1.5429 -
      val_loss: 5.1038 - val_mean_absolute_error: 1.6649
283 Epoch 104/800
284 - 0s - loss: 4.4977 - mean_absolute_error: 1.5331 -
      val_loss: 4.5511 - val_mean_absolute_error: 1.5197
285 Epoch 105/800
286 - 0s - loss: 4.5356 - mean_absolute_error: 1.5437 -
      val_loss: 4.7954 - val_mean_absolute_error: 1.5610
287 Epoch 106/800
288 - 0s - loss: 4.2568 - mean_absolute_error: 1.5027 -
      val_loss: 4.7824 - val_mean_absolute_error: 1.5113
289 Epoch 107/800
290 - 0s - loss: 4.4905 - mean_absolute_error: 1.5489 -
      val_loss: 5.4814 - val_mean_absolute_error: 1.6485
291 Epoch 108/800
292 - 0s - loss: 4.4112 - mean_absolute_error: 1.5181 -
      val_loss: 4.8839 - val_mean_absolute_error: 1.5560
293 Epoch 109/800
294 - 0s - loss: 4.4843 - mean_absolute_error: 1.5327 -
      val_loss: 4.8919 - val_mean_absolute_error: 1.6384
295 Epoch 110/800
296 - 0s - loss: 4.4082 - mean_absolute_error: 1.5144 -
      val_loss: 4.9421 - val_mean_absolute_error: 1.5183
297 Epoch 111/800
298 - 0s - loss: 4.2935 - mean_absolute_error: 1.5105 -
```

```
298 val_loss: 4.8706 - val_mean_absolute_error: 1.6422
299 Epoch 112/800
300 - 0s - loss: 4.3835 - mean_absolute_error: 1.5228 -
    val_loss: 4.8109 - val_mean_absolute_error: 1.5475
301 Epoch 113/800
302 - 0s - loss: 4.4914 - mean_absolute_error: 1.5327 -
    val_loss: 4.7169 - val_mean_absolute_error: 1.5052
303 Epoch 114/800
304 - 0s - loss: 4.4041 - mean_absolute_error: 1.5220 -
    val_loss: 4.5107 - val_mean_absolute_error: 1.4933
305 Epoch 115/800
306 - 0s - loss: 4.3134 - mean_absolute_error: 1.5190 -
    val_loss: 4.6963 - val_mean_absolute_error: 1.4991
307 Epoch 116/800
308 - 0s - loss: 4.4666 - mean_absolute_error: 1.5254 -
    val_loss: 4.5844 - val_mean_absolute_error: 1.4841
309 Epoch 117/800
310 - 0s - loss: 4.3870 - mean_absolute_error: 1.5214 -
    val_loss: 5.1250 - val_mean_absolute_error: 1.6302
311 Epoch 118/800
312 - 0s - loss: 4.2598 - mean_absolute_error: 1.4980 -
    val_loss: 5.2412 - val_mean_absolute_error: 1.6193
313 Epoch 119/800
314 - 0s - loss: 4.5184 - mean_absolute_error: 1.5451 -
    val_loss: 4.5588 - val_mean_absolute_error: 1.4837
315 Epoch 120/800
316 - 0s - loss: 4.3860 - mean_absolute_error: 1.5215 -
    val_loss: 4.7579 - val_mean_absolute_error: 1.5095
317 Epoch 121/800
318 - 0s - loss: 4.4108 - mean_absolute_error: 1.5191 -
    val_loss: 4.7655 - val_mean_absolute_error: 1.5140
319 Epoch 122/800
320 - 0s - loss: 4.3161 - mean_absolute_error: 1.5114 -
    val_loss: 4.9684 - val_mean_absolute_error: 1.6594
321 Epoch 123/800
322 - 0s - loss: 4.4211 - mean_absolute_error: 1.5281 -
    val_loss: 4.6400 - val_mean_absolute_error: 1.4884
323 Epoch 124/800
324 - 0s - loss: 4.4267 - mean_absolute_error: 1.5187 -
    val_loss: 4.6036 - val_mean_absolute_error: 1.4895
325 Epoch 125/800
326 - 0s - loss: 4.2557 - mean_absolute_error: 1.4909 -
    val_loss: 5.0410 - val_mean_absolute_error: 1.6899
327 Epoch 126/800
328 - 0s - loss: 4.4251 - mean_absolute_error: 1.5390 -
    val_loss: 4.7299 - val_mean_absolute_error: 1.5549
329 Epoch 127/800
330 - 0s - loss: 4.2274 - mean_absolute_error: 1.5000 -
    val_loss: 4.6260 - val_mean_absolute_error: 1.5237
331 Epoch 128/800
```

```
332 - 0s - loss: 4.3119 - mean_absolute_error: 1.5086 -  
      val_loss: 4.9849 - val_mean_absolute_error: 1.5340  
333 Epoch 129/800  
334 - 0s - loss: 4.3754 - mean_absolute_error: 1.5208 -  
      val_loss: 4.6286 - val_mean_absolute_error: 1.5680  
335 Epoch 130/800  
336 - 0s - loss: 4.4077 - mean_absolute_error: 1.5233 -  
      val_loss: 5.6916 - val_mean_absolute_error: 1.6442  
337 Epoch 131/800  
338 - 0s - loss: 4.3866 - mean_absolute_error: 1.5032 -  
      val_loss: 4.9183 - val_mean_absolute_error: 1.6017  
339 Epoch 132/800  
340 - 0s - loss: 4.3549 - mean_absolute_error: 1.5207 -  
      val_loss: 4.6376 - val_mean_absolute_error: 1.4949  
341 Epoch 133/800  
342 - 0s - loss: 4.3371 - mean_absolute_error: 1.5029 -  
      val_loss: 5.0404 - val_mean_absolute_error: 1.5865  
343 Epoch 134/800  
344 - 0s - loss: 4.2290 - mean_absolute_error: 1.5017 -  
      val_loss: 5.0424 - val_mean_absolute_error: 1.5792  
345 Epoch 135/800  
346 - 0s - loss: 4.2513 - mean_absolute_error: 1.5004 -  
      val_loss: 4.9202 - val_mean_absolute_error: 1.6150  
347 Epoch 136/800  
348 - 0s - loss: 4.3202 - mean_absolute_error: 1.5024 -  
      val_loss: 4.6814 - val_mean_absolute_error: 1.5596  
349 Epoch 137/800  
350 - 0s - loss: 4.2774 - mean_absolute_error: 1.4993 -  
      val_loss: 4.6127 - val_mean_absolute_error: 1.4824  
351 Epoch 138/800  
352 - 0s - loss: 4.2024 - mean_absolute_error: 1.4931 -  
      val_loss: 4.6683 - val_mean_absolute_error: 1.5485  
353 Epoch 139/800  
354 - 0s - loss: 4.3394 - mean_absolute_error: 1.5156 -  
      val_loss: 5.2582 - val_mean_absolute_error: 1.5686  
355 Epoch 140/800  
356 - 0s - loss: 4.1676 - mean_absolute_error: 1.4771 -  
      val_loss: 4.6307 - val_mean_absolute_error: 1.4871  
357 Epoch 141/800  
358 - 0s - loss: 4.3321 - mean_absolute_error: 1.5043 -  
      val_loss: 5.0320 - val_mean_absolute_error: 1.5634  
359 Epoch 142/800  
360 - 0s - loss: 4.2320 - mean_absolute_error: 1.4950 -  
      val_loss: 5.0969 - val_mean_absolute_error: 1.6393  
361 Epoch 143/800  
362 - 0s - loss: 4.3234 - mean_absolute_error: 1.4975 -  
      val_loss: 5.1377 - val_mean_absolute_error: 1.5624  
363 Epoch 144/800  
364 - 0s - loss: 4.2937 - mean_absolute_error: 1.4855 -  
      val_loss: 4.5746 - val_mean_absolute_error: 1.5511
```

```
365 Epoch 145/800
366 - 0s - loss: 4.3268 - mean_absolute_error: 1.5108 -
      val_loss: 5.8861 - val_mean_absolute_error: 1.6220
367 Epoch 146/800
368 - 0s - loss: 4.4031 - mean_absolute_error: 1.5118 -
      val_loss: 4.5477 - val_mean_absolute_error: 1.5192
369 Epoch 147/800
370 - 0s - loss: 4.1489 - mean_absolute_error: 1.4765 -
      val_loss: 4.6261 - val_mean_absolute_error: 1.5286
371 Epoch 148/800
372 - 0s - loss: 4.3859 - mean_absolute_error: 1.5090 -
      val_loss: 5.3680 - val_mean_absolute_error: 1.7435
373 Epoch 149/800
374 - 0s - loss: 4.2721 - mean_absolute_error: 1.5030 -
      val_loss: 4.8148 - val_mean_absolute_error: 1.5683
375 Epoch 150/800
376 - 0s - loss: 4.2747 - mean_absolute_error: 1.4913 -
      val_loss: 5.1930 - val_mean_absolute_error: 1.6199
377 Epoch 151/800
378 - 0s - loss: 4.2091 - mean_absolute_error: 1.4824 -
      val_loss: 4.6620 - val_mean_absolute_error: 1.5215
379 Epoch 152/800
380 - 0s - loss: 4.1783 - mean_absolute_error: 1.4916 -
      val_loss: 5.0238 - val_mean_absolute_error: 1.6017
381 Epoch 153/800
382 - 0s - loss: 4.2931 - mean_absolute_error: 1.5071 -
      val_loss: 5.1375 - val_mean_absolute_error: 1.5405
383 Epoch 154/800
384 - 0s - loss: 4.2783 - mean_absolute_error: 1.4892 -
      val_loss: 4.7092 - val_mean_absolute_error: 1.5629
385 Epoch 155/800
386 - 0s - loss: 4.2089 - mean_absolute_error: 1.4891 -
      val_loss: 4.5535 - val_mean_absolute_error: 1.5033
387 Epoch 156/800
388 - 0s - loss: 4.3009 - mean_absolute_error: 1.5067 -
      val_loss: 4.6702 - val_mean_absolute_error: 1.5560
389 Epoch 157/800
390 - 0s - loss: 4.0813 - mean_absolute_error: 1.4664 -
      val_loss: 5.0106 - val_mean_absolute_error: 1.6001
391 Epoch 158/800
392 - 0s - loss: 4.3084 - mean_absolute_error: 1.4974 -
      val_loss: 4.7367 - val_mean_absolute_error: 1.5870
393 Epoch 159/800
394 - 0s - loss: 4.0907 - mean_absolute_error: 1.4641 -
      val_loss: 5.4263 - val_mean_absolute_error: 1.7220
395 Epoch 160/800
396 - 0s - loss: 4.1779 - mean_absolute_error: 1.4758 -
      val_loss: 5.2706 - val_mean_absolute_error: 1.5494
397 Epoch 161/800
398 - 0s - loss: 4.2837 - mean_absolute_error: 1.4882 -
```

```
398 val_loss: 4.8030 - val_mean_absolute_error: 1.5400
399 Epoch 162/800
400 - 0s - loss: 4.2941 - mean_absolute_error: 1.4974 -
    val_loss: 5.4217 - val_mean_absolute_error: 1.7649
401 Epoch 163/800
402 - 0s - loss: 4.1485 - mean_absolute_error: 1.4806 -
    val_loss: 5.5408 - val_mean_absolute_error: 1.6099
403 Epoch 164/800
404 - 0s - loss: 4.2845 - mean_absolute_error: 1.5040 -
    val_loss: 4.6717 - val_mean_absolute_error: 1.5182
405 Epoch 165/800
406 - 0s - loss: 4.0878 - mean_absolute_error: 1.4608 -
    val_loss: 4.6794 - val_mean_absolute_error: 1.5360
407 Epoch 166/800
408 - 0s - loss: 4.2030 - mean_absolute_error: 1.4781 -
    val_loss: 5.7739 - val_mean_absolute_error: 1.8045
409 Epoch 167/800
410 - 0s - loss: 4.1204 - mean_absolute_error: 1.4726 -
    val_loss: 4.7547 - val_mean_absolute_error: 1.5762
411 Epoch 168/800
412 - 0s - loss: 4.2208 - mean_absolute_error: 1.4869 -
    val_loss: 4.6111 - val_mean_absolute_error: 1.5016
413 Epoch 169/800
414 - 0s - loss: 4.1138 - mean_absolute_error: 1.4763 -
    val_loss: 4.6618 - val_mean_absolute_error: 1.5589
415 Epoch 170/800
416 - 0s - loss: 4.1588 - mean_absolute_error: 1.4741 -
    val_loss: 5.4486 - val_mean_absolute_error: 1.5925
417 Epoch 171/800
418 - 0s - loss: 4.1452 - mean_absolute_error: 1.4736 -
    val_loss: 5.1955 - val_mean_absolute_error: 1.6129
419 Epoch 172/800
420 - 0s - loss: 4.2051 - mean_absolute_error: 1.4890 -
    val_loss: 5.2706 - val_mean_absolute_error: 1.6547
421 Epoch 173/800
422 - 0s - loss: 4.1862 - mean_absolute_error: 1.4743 -
    val_loss: 4.7209 - val_mean_absolute_error: 1.5436
423 Epoch 174/800
424 - 0s - loss: 4.1317 - mean_absolute_error: 1.4638 -
    val_loss: 4.9774 - val_mean_absolute_error: 1.5748
425 Epoch 175/800
426 - 0s - loss: 4.2841 - mean_absolute_error: 1.4887 -
    val_loss: 5.1472 - val_mean_absolute_error: 1.5437
427 Epoch 176/800
428 - 0s - loss: 4.1300 - mean_absolute_error: 1.4645 -
    val_loss: 5.2584 - val_mean_absolute_error: 1.5896
429 Epoch 177/800
430 - 0s - loss: 4.2377 - mean_absolute_error: 1.4910 -
    val_loss: 4.7766 - val_mean_absolute_error: 1.5718
431 Epoch 178/800
```

```
432 - 0s - loss: 4.1599 - mean_absolute_error: 1.4691 -  
    val_loss: 5.2756 - val_mean_absolute_error: 1.5720  
433 Epoch 179/800  
434 - 0s - loss: 4.0529 - mean_absolute_error: 1.4536 -  
    val_loss: 4.8949 - val_mean_absolute_error: 1.5659  
435 Epoch 180/800  
436 - 0s - loss: 4.2081 - mean_absolute_error: 1.4851 -  
    val_loss: 4.6258 - val_mean_absolute_error: 1.4978  
437 Epoch 181/800  
438 - 0s - loss: 4.1351 - mean_absolute_error: 1.4780 -  
    val_loss: 4.9621 - val_mean_absolute_error: 1.5882  
439 Epoch 182/800  
440 - 0s - loss: 4.1585 - mean_absolute_error: 1.4901 -  
    val_loss: 5.1850 - val_mean_absolute_error: 1.5374  
441 Epoch 183/800  
442 - 0s - loss: 4.1971 - mean_absolute_error: 1.4836 -  
    val_loss: 5.2452 - val_mean_absolute_error: 1.5784  
443 Epoch 184/800  
444 - 0s - loss: 4.1369 - mean_absolute_error: 1.4770 -  
    val_loss: 4.7730 - val_mean_absolute_error: 1.5277  
445 Epoch 185/800  
446 - 0s - loss: 4.0393 - mean_absolute_error: 1.4569 -  
    val_loss: 4.8158 - val_mean_absolute_error: 1.5273  
447 Epoch 186/800  
448 - 0s - loss: 4.1870 - mean_absolute_error: 1.4889 -  
    val_loss: 5.2055 - val_mean_absolute_error: 1.5961  
449 Epoch 187/800  
450 - 0s - loss: 4.1605 - mean_absolute_error: 1.4793 -  
    val_loss: 4.9379 - val_mean_absolute_error: 1.6479  
451 Epoch 188/800  
452 - 0s - loss: 4.1750 - mean_absolute_error: 1.4787 -  
    val_loss: 4.8166 - val_mean_absolute_error: 1.5976  
453 Epoch 189/800  
454 - 0s - loss: 4.0477 - mean_absolute_error: 1.4600 -  
    val_loss: 5.5778 - val_mean_absolute_error: 1.6391  
455 Epoch 190/800  
456 - 0s - loss: 4.0097 - mean_absolute_error: 1.4540 -  
    val_loss: 5.8081 - val_mean_absolute_error: 1.6171  
457 Epoch 191/800  
458 - 0s - loss: 4.0674 - mean_absolute_error: 1.4728 -  
    val_loss: 4.7182 - val_mean_absolute_error: 1.5558  
459 Epoch 192/800  
460 - 0s - loss: 4.1034 - mean_absolute_error: 1.4663 -  
    val_loss: 4.9225 - val_mean_absolute_error: 1.6055  
461 Epoch 193/800  
462 - 0s - loss: 4.1321 - mean_absolute_error: 1.4696 -  
    val_loss: 5.2821 - val_mean_absolute_error: 1.5870  
463 Epoch 194/800  
464 - 0s - loss: 4.0192 - mean_absolute_error: 1.4714 -  
    val_loss: 5.1771 - val_mean_absolute_error: 1.5573
```

```
465 Epoch 195/800
466 - 0s - loss: 4.0664 - mean_absolute_error: 1.4581 -
      val_loss: 4.8884 - val_mean_absolute_error: 1.5614
467 Epoch 196/800
468 - 0s - loss: 4.1760 - mean_absolute_error: 1.4801 -
      val_loss: 4.8954 - val_mean_absolute_error: 1.5759
469 Epoch 197/800
470 - 0s - loss: 4.1210 - mean_absolute_error: 1.4733 -
      val_loss: 4.8234 - val_mean_absolute_error: 1.5408
471 Epoch 198/800
472 - 0s - loss: 3.9391 - mean_absolute_error: 1.4359 -
      val_loss: 5.3977 - val_mean_absolute_error: 1.5966
473 Epoch 199/800
474 - 0s - loss: 4.1444 - mean_absolute_error: 1.4634 -
      val_loss: 5.0448 - val_mean_absolute_error: 1.6513
475 Epoch 200/800
476 - 0s - loss: 4.1652 - mean_absolute_error: 1.4728 -
      val_loss: 5.3201 - val_mean_absolute_error: 1.5989
477 Epoch 201/800
478 - 0s - loss: 4.1396 - mean_absolute_error: 1.4707 -
      val_loss: 4.7488 - val_mean_absolute_error: 1.5354
479 Epoch 202/800
480 - 0s - loss: 4.1426 - mean_absolute_error: 1.4754 -
      val_loss: 4.7752 - val_mean_absolute_error: 1.5444
481 Epoch 203/800
482 - 0s - loss: 4.0484 - mean_absolute_error: 1.4459 -
      val_loss: 5.6364 - val_mean_absolute_error: 1.6671
483 Epoch 204/800
484 - 0s - loss: 4.1334 - mean_absolute_error: 1.4656 -
      val_loss: 5.0835 - val_mean_absolute_error: 1.5324
485 Epoch 205/800
486 - 0s - loss: 4.0233 - mean_absolute_error: 1.4517 -
      val_loss: 5.2154 - val_mean_absolute_error: 1.5499
487 Epoch 206/800
488 - 0s - loss: 4.1003 - mean_absolute_error: 1.4587 -
      val_loss: 5.0027 - val_mean_absolute_error: 1.5285
489 Epoch 207/800
490 - 0s - loss: 3.9869 - mean_absolute_error: 1.4392 -
      val_loss: 5.0529 - val_mean_absolute_error: 1.5595
491 Epoch 208/800
492 - 0s - loss: 4.0401 - mean_absolute_error: 1.4503 -
      val_loss: 5.3537 - val_mean_absolute_error: 1.7311
493 Epoch 209/800
494 - 0s - loss: 4.0541 - mean_absolute_error: 1.4717 -
      val_loss: 5.0634 - val_mean_absolute_error: 1.5653
495 Epoch 210/800
496 - 0s - loss: 4.0211 - mean_absolute_error: 1.4493 -
      val_loss: 4.8900 - val_mean_absolute_error: 1.5419
497 Epoch 211/800
498 - 0s - loss: 4.0011 - mean_absolute_error: 1.4386 -
```

```
498 val_loss: 4.9632 - val_mean_absolute_error: 1.5827
499 Epoch 212/800
500 - 0s - loss: 4.0394 - mean_absolute_error: 1.4487 -
      val_loss: 4.9625 - val_mean_absolute_error: 1.5306
501 Epoch 213/800
502 - 0s - loss: 4.0518 - mean_absolute_error: 1.4507 -
      val_loss: 5.2221 - val_mean_absolute_error: 1.5871
503 Epoch 214/800
504 - 0s - loss: 4.0558 - mean_absolute_error: 1.4453 -
      val_loss: 5.3226 - val_mean_absolute_error: 1.5621
505 Epoch 215/800
506 - 0s - loss: 4.0270 - mean_absolute_error: 1.4601 -
      val_loss: 4.8361 - val_mean_absolute_error: 1.5587
507 Epoch 216/800
508 - 0s - loss: 4.0452 - mean_absolute_error: 1.4592 -
      val_loss: 4.7467 - val_mean_absolute_error: 1.5641
509 Epoch 217/800
510 - 0s - loss: 4.0415 - mean_absolute_error: 1.4635 -
      val_loss: 5.3039 - val_mean_absolute_error: 1.5592
511 Epoch 218/800
512 - 0s - loss: 4.0154 - mean_absolute_error: 1.4381 -
      val_loss: 4.6469 - val_mean_absolute_error: 1.5433
513 Epoch 219/800
514 - 0s - loss: 4.0026 - mean_absolute_error: 1.4600 -
      val_loss: 4.6817 - val_mean_absolute_error: 1.5123
515 Epoch 220/800
516 - 0s - loss: 3.9827 - mean_absolute_error: 1.4490 -
      val_loss: 4.8407 - val_mean_absolute_error: 1.5633
517 Epoch 221/800
518 - 0s - loss: 3.9550 - mean_absolute_error: 1.4468 -
      val_loss: 4.9198 - val_mean_absolute_error: 1.5987
519 Epoch 222/800
520 - 0s - loss: 4.0315 - mean_absolute_error: 1.4480 -
      val_loss: 4.7207 - val_mean_absolute_error: 1.5404
521 Epoch 223/800
522 - 0s - loss: 3.9498 - mean_absolute_error: 1.4435 -
      val_loss: 5.3137 - val_mean_absolute_error: 1.6066
523 Epoch 224/800
524 - 0s - loss: 4.0869 - mean_absolute_error: 1.4656 -
      val_loss: 4.7353 - val_mean_absolute_error: 1.5115
525 Epoch 225/800
526 - 0s - loss: 4.0353 - mean_absolute_error: 1.4467 -
      val_loss: 4.7721 - val_mean_absolute_error: 1.5692
527 Epoch 226/800
528 - 0s - loss: 4.0877 - mean_absolute_error: 1.4595 -
      val_loss: 4.8696 - val_mean_absolute_error: 1.5235
529 Epoch 227/800
530 - 0s - loss: 3.9578 - mean_absolute_error: 1.4390 -
      val_loss: 4.8964 - val_mean_absolute_error: 1.5470
531 Epoch 228/800
```

```
532 - 0s - loss: 3.9819 - mean_absolute_error: 1.4388 -  
      val_loss: 5.0845 - val_mean_absolute_error: 1.5520  
533 Epoch 229/800  
534 - 0s - loss: 4.0473 - mean_absolute_error: 1.4522 -  
      val_loss: 4.9648 - val_mean_absolute_error: 1.5266  
535 Epoch 230/800  
536 - 0s - loss: 3.9530 - mean_absolute_error: 1.4304 -  
      val_loss: 4.6743 - val_mean_absolute_error: 1.5292  
537 Epoch 231/800  
538 - 0s - loss: 4.0339 - mean_absolute_error: 1.4632 -  
      val_loss: 4.8677 - val_mean_absolute_error: 1.5549  
539 Epoch 232/800  
540 - 0s - loss: 3.9578 - mean_absolute_error: 1.4416 -  
      val_loss: 4.9091 - val_mean_absolute_error: 1.5604  
541 Epoch 233/800  
542 - 0s - loss: 3.9357 - mean_absolute_error: 1.4287 -  
      val_loss: 4.8716 - val_mean_absolute_error: 1.5366  
543 Epoch 234/800  
544 - 0s - loss: 3.9213 - mean_absolute_error: 1.4299 -  
      val_loss: 4.8003 - val_mean_absolute_error: 1.5397  
545 Epoch 235/800  
546 - 0s - loss: 4.0149 - mean_absolute_error: 1.4606 -  
      val_loss: 5.7245 - val_mean_absolute_error: 1.6189  
547 Epoch 236/800  
548 - 0s - loss: 3.9486 - mean_absolute_error: 1.4404 -  
      val_loss: 4.8612 - val_mean_absolute_error: 1.5241  
549 Epoch 237/800  
550 - 0s - loss: 3.9979 - mean_absolute_error: 1.4508 -  
      val_loss: 5.0454 - val_mean_absolute_error: 1.5566  
551 Epoch 238/800  
552 - 0s - loss: 3.9836 - mean_absolute_error: 1.4551 -  
      val_loss: 5.0047 - val_mean_absolute_error: 1.5502  
553 Epoch 239/800  
554 - 0s - loss: 3.8598 - mean_absolute_error: 1.4120 -  
      val_loss: 4.9633 - val_mean_absolute_error: 1.6014  
555 Epoch 240/800  
556 - 0s - loss: 4.0247 - mean_absolute_error: 1.4574 -  
      val_loss: 4.8939 - val_mean_absolute_error: 1.5620  
557 Epoch 241/800  
558 - 0s - loss: 3.8840 - mean_absolute_error: 1.4240 -  
      val_loss: 5.1781 - val_mean_absolute_error: 1.5882  
559 Epoch 242/800  
560 - 0s - loss: 4.0536 - mean_absolute_error: 1.4580 -  
      val_loss: 4.8781 - val_mean_absolute_error: 1.6061  
561 Epoch 243/800  
562 - 0s - loss: 3.9425 - mean_absolute_error: 1.4448 -  
      val_loss: 4.9022 - val_mean_absolute_error: 1.5663  
563 Epoch 244/800  
564 - 0s - loss: 3.9752 - mean_absolute_error: 1.4371 -  
      val_loss: 4.9539 - val_mean_absolute_error: 1.5989
```

```
565 Epoch 245/800
566 - 0s - loss: 3.9729 - mean_absolute_error: 1.4401 -
      val_loss: 4.7439 - val_mean_absolute_error: 1.5434
567 Epoch 246/800
568 - 0s - loss: 3.8221 - mean_absolute_error: 1.4221 -
      val_loss: 4.8812 - val_mean_absolute_error: 1.5902
569 Epoch 247/800
570 - 0s - loss: 3.8311 - mean_absolute_error: 1.4267 -
      val_loss: 4.7542 - val_mean_absolute_error: 1.5153
571 Epoch 248/800
572 - 0s - loss: 3.9735 - mean_absolute_error: 1.4322 -
      val_loss: 4.7244 - val_mean_absolute_error: 1.5463
573 Epoch 249/800
574 - 0s - loss: 3.9012 - mean_absolute_error: 1.4352 -
      val_loss: 4.8751 - val_mean_absolute_error: 1.5523
575 Epoch 250/800
576 - 0s - loss: 3.8719 - mean_absolute_error: 1.4123 -
      val_loss: 4.8180 - val_mean_absolute_error: 1.5552
577 Epoch 251/800
578 - 0s - loss: 3.8932 - mean_absolute_error: 1.4273 -
      val_loss: 4.8631 - val_mean_absolute_error: 1.5740
579 Epoch 252/800
580 - 0s - loss: 3.9107 - mean_absolute_error: 1.4306 -
      val_loss: 4.8137 - val_mean_absolute_error: 1.5751
581 Epoch 253/800
582 - 0s - loss: 3.8838 - mean_absolute_error: 1.4321 -
      val_loss: 4.9854 - val_mean_absolute_error: 1.6207
583 Epoch 254/800
584 - 0s - loss: 3.8547 - mean_absolute_error: 1.4260 -
      val_loss: 5.4548 - val_mean_absolute_error: 1.7059
585 Epoch 255/800
586 - 0s - loss: 3.8998 - mean_absolute_error: 1.4281 -
      val_loss: 4.9902 - val_mean_absolute_error: 1.6451
587 Epoch 256/800
588 - 0s - loss: 3.8291 - mean_absolute_error: 1.4238 -
      val_loss: 4.9078 - val_mean_absolute_error: 1.5664
589 Epoch 257/800
590 - 0s - loss: 3.8237 - mean_absolute_error: 1.4185 -
      val_loss: 4.8228 - val_mean_absolute_error: 1.5453
591 Epoch 258/800
592 - 0s - loss: 3.9671 - mean_absolute_error: 1.4497 -
      val_loss: 4.8052 - val_mean_absolute_error: 1.6234
593 Epoch 259/800
594 - 0s - loss: 3.8470 - mean_absolute_error: 1.4267 -
      val_loss: 4.9177 - val_mean_absolute_error: 1.5593
595 Epoch 260/800
596 - 0s - loss: 3.9962 - mean_absolute_error: 1.4399 -
      val_loss: 5.4193 - val_mean_absolute_error: 1.6017
597 Epoch 261/800
598 - 0s - loss: 3.8129 - mean_absolute_error: 1.4202 -
```

```
598 val_loss: 5.0096 - val_mean_absolute_error: 1.5841
599 Epoch 262/800
600 - 0s - loss: 3.8440 - mean_absolute_error: 1.4182 -
    val_loss: 4.7072 - val_mean_absolute_error: 1.5589
601 Epoch 263/800
602 - 0s - loss: 3.7876 - mean_absolute_error: 1.4006 -
    val_loss: 5.4556 - val_mean_absolute_error: 1.5740
603 Epoch 264/800
604 - 0s - loss: 3.8695 - mean_absolute_error: 1.4257 -
    val_loss: 5.0186 - val_mean_absolute_error: 1.5522
605 Epoch 265/800
606 - 0s - loss: 3.8372 - mean_absolute_error: 1.4245 -
    val_loss: 4.8709 - val_mean_absolute_error: 1.5778
607 Epoch 266/800
608 - 0s - loss: 3.9008 - mean_absolute_error: 1.4290 -
    val_loss: 4.8320 - val_mean_absolute_error: 1.5349
609 Epoch 267/800
610 - 0s - loss: 3.8192 - mean_absolute_error: 1.4170 -
    val_loss: 5.2555 - val_mean_absolute_error: 1.7077
611 Epoch 268/800
612 - 0s - loss: 3.9263 - mean_absolute_error: 1.4314 -
    val_loss: 5.5722 - val_mean_absolute_error: 1.6076
613 Epoch 269/800
614 - 0s - loss: 3.7930 - mean_absolute_error: 1.4160 -
    val_loss: 4.8628 - val_mean_absolute_error: 1.5453
615 Epoch 270/800
616 - 0s - loss: 3.8209 - mean_absolute_error: 1.4203 -
    val_loss: 5.2743 - val_mean_absolute_error: 1.7273
617 Epoch 271/800
618 - 0s - loss: 3.8673 - mean_absolute_error: 1.4398 -
    val_loss: 4.9285 - val_mean_absolute_error: 1.5371
619 Epoch 272/800
620 - 0s - loss: 3.6856 - mean_absolute_error: 1.3950 -
    val_loss: 4.8355 - val_mean_absolute_error: 1.5277
621 Epoch 273/800
622 - 0s - loss: 3.9139 - mean_absolute_error: 1.4258 -
    val_loss: 4.8392 - val_mean_absolute_error: 1.5892
623 Epoch 274/800
624 - 0s - loss: 3.8775 - mean_absolute_error: 1.4308 -
    val_loss: 4.8562 - val_mean_absolute_error: 1.5387
625 Epoch 275/800
626 - 0s - loss: 3.7323 - mean_absolute_error: 1.4018 -
    val_loss: 5.1349 - val_mean_absolute_error: 1.5698
627 Epoch 276/800
628 - 0s - loss: 3.8857 - mean_absolute_error: 1.4237 -
    val_loss: 5.0335 - val_mean_absolute_error: 1.6297
629 Epoch 277/800
630 - 0s - loss: 3.8532 - mean_absolute_error: 1.4246 -
    val_loss: 4.8919 - val_mean_absolute_error: 1.5848
631 Epoch 278/800
```

```
632 - 0s - loss: 3.7508 - mean_absolute_error: 1.4038 -
      val_loss: 5.1579 - val_mean_absolute_error: 1.5738
633 Epoch 279/800
634 - 0s - loss: 3.8617 - mean_absolute_error: 1.4235 -
      val_loss: 5.3454 - val_mean_absolute_error: 1.5708
635 Epoch 280/800
636 - 0s - loss: 3.8055 - mean_absolute_error: 1.4174 -
      val_loss: 4.8538 - val_mean_absolute_error: 1.5510
637 Epoch 281/800
638 - 0s - loss: 3.8508 - mean_absolute_error: 1.4205 -
      val_loss: 4.9214 - val_mean_absolute_error: 1.5395
639 Epoch 282/800
640 - 0s - loss: 3.8480 - mean_absolute_error: 1.4229 -
      val_loss: 4.8101 - val_mean_absolute_error: 1.5363
641 Epoch 283/800
642 - 0s - loss: 3.7833 - mean_absolute_error: 1.4062 -
      val_loss: 4.9230 - val_mean_absolute_error: 1.5793
643 Epoch 284/800
644 - 0s - loss: 3.7960 - mean_absolute_error: 1.4187 -
      val_loss: 5.2825 - val_mean_absolute_error: 1.5947
645 Epoch 285/800
646 - 0s - loss: 3.7340 - mean_absolute_error: 1.4058 -
      val_loss: 5.4748 - val_mean_absolute_error: 1.6664
647 Epoch 286/800
648 - 0s - loss: 3.8181 - mean_absolute_error: 1.4216 -
      val_loss: 5.2379 - val_mean_absolute_error: 1.5715
649 Epoch 287/800
650 - 0s - loss: 3.7201 - mean_absolute_error: 1.3999 -
      val_loss: 5.4910 - val_mean_absolute_error: 1.6086
651 Epoch 288/800
652 - 0s - loss: 3.6721 - mean_absolute_error: 1.3963 -
      val_loss: 5.0079 - val_mean_absolute_error: 1.5899
653 Epoch 289/800
654 - 0s - loss: 3.7494 - mean_absolute_error: 1.4093 -
      val_loss: 5.7112 - val_mean_absolute_error: 1.6157
655 Epoch 290/800
656 - 0s - loss: 3.7978 - mean_absolute_error: 1.4246 -
      val_loss: 5.4187 - val_mean_absolute_error: 1.5964
657 Epoch 291/800
658 - 0s - loss: 3.7477 - mean_absolute_error: 1.4191 -
      val_loss: 4.9263 - val_mean_absolute_error: 1.5540
659 Epoch 292/800
660 - 0s - loss: 3.7710 - mean_absolute_error: 1.4161 -
      val_loss: 5.1032 - val_mean_absolute_error: 1.5776
661 Epoch 293/800
662 - 0s - loss: 3.7872 - mean_absolute_error: 1.4083 -
      val_loss: 5.5151 - val_mean_absolute_error: 1.6469
663 Epoch 294/800
664 - 0s - loss: 3.8322 - mean_absolute_error: 1.4140 -
      val_loss: 4.6163 - val_mean_absolute_error: 1.5112
```

```
665 Epoch 295/800
666 - 0s - loss: 3.7667 - mean_absolute_error: 1.4072 -
      val_loss: 5.1451 - val_mean_absolute_error: 1.5873
667 Epoch 296/800
668 - 0s - loss: 3.7663 - mean_absolute_error: 1.4169 -
      val_loss: 5.1610 - val_mean_absolute_error: 1.5908
669 Epoch 297/800
670 - 0s - loss: 3.8244 - mean_absolute_error: 1.4193 -
      val_loss: 4.7798 - val_mean_absolute_error: 1.5534
671 Epoch 298/800
672 - 0s - loss: 3.6563 - mean_absolute_error: 1.3954 -
      val_loss: 4.9217 - val_mean_absolute_error: 1.5782
673 Epoch 299/800
674 - 0s - loss: 3.7173 - mean_absolute_error: 1.3952 -
      val_loss: 5.0667 - val_mean_absolute_error: 1.6189
675 Epoch 300/800
676 - 0s - loss: 3.7178 - mean_absolute_error: 1.4062 -
      val_loss: 4.9924 - val_mean_absolute_error: 1.5562
677 Epoch 301/800
678 - 0s - loss: 3.6749 - mean_absolute_error: 1.3834 -
      val_loss: 4.8525 - val_mean_absolute_error: 1.5394
679 Epoch 302/800
680 - 0s - loss: 3.7310 - mean_absolute_error: 1.4100 -
      val_loss: 4.8725 - val_mean_absolute_error: 1.5252
681 Epoch 303/800
682 - 0s - loss: 3.6943 - mean_absolute_error: 1.4043 -
      val_loss: 4.8026 - val_mean_absolute_error: 1.5280
683 Epoch 304/800
684 - 0s - loss: 3.7205 - mean_absolute_error: 1.4035 -
      val_loss: 4.7146 - val_mean_absolute_error: 1.5388
685 Epoch 305/800
686 - 0s - loss: 3.7421 - mean_absolute_error: 1.3944 -
      val_loss: 4.7958 - val_mean_absolute_error: 1.5468
687 Epoch 306/800
688 - 0s - loss: 3.8162 - mean_absolute_error: 1.4198 -
      val_loss: 4.7394 - val_mean_absolute_error: 1.5391
689 Epoch 307/800
690 - 0s - loss: 3.6709 - mean_absolute_error: 1.3909 -
      val_loss: 5.1349 - val_mean_absolute_error: 1.6576
691 Epoch 308/800
692 - 0s - loss: 3.7252 - mean_absolute_error: 1.3984 -
      val_loss: 4.8608 - val_mean_absolute_error: 1.5569
693 Epoch 309/800
694 - 0s - loss: 3.7421 - mean_absolute_error: 1.4090 -
      val_loss: 4.9572 - val_mean_absolute_error: 1.5490
695 Epoch 310/800
696 - 0s - loss: 3.6211 - mean_absolute_error: 1.3766 -
      val_loss: 4.8892 - val_mean_absolute_error: 1.5998
697 Epoch 311/800
698 - 0s - loss: 3.6879 - mean_absolute_error: 1.3952 -
```

```
698 val_loss: 5.7018 - val_mean_absolute_error: 1.7191
699 Epoch 312/800
700 - 0s - loss: 3.7420 - mean_absolute_error: 1.4088 -
    val_loss: 4.7930 - val_mean_absolute_error: 1.5353
701 Epoch 313/800
702 - 0s - loss: 3.6853 - mean_absolute_error: 1.3986 -
    val_loss: 4.8020 - val_mean_absolute_error: 1.5481
703 Epoch 314/800
704 - 0s - loss: 3.7605 - mean_absolute_error: 1.4127 -
    val_loss: 4.8104 - val_mean_absolute_error: 1.5309
705 Epoch 315/800
706 - 0s - loss: 3.6766 - mean_absolute_error: 1.3961 -
    val_loss: 5.0558 - val_mean_absolute_error: 1.5611
707 Epoch 316/800
708 - 0s - loss: 3.6728 - mean_absolute_error: 1.3794 -
    val_loss: 5.1118 - val_mean_absolute_error: 1.6864
709 Epoch 317/800
710 - 0s - loss: 3.8092 - mean_absolute_error: 1.4222 -
    val_loss: 4.8762 - val_mean_absolute_error: 1.5444
711 Epoch 318/800
712 - 0s - loss: 3.6646 - mean_absolute_error: 1.3889 -
    val_loss: 4.7095 - val_mean_absolute_error: 1.5155
713 Epoch 319/800
714 - 0s - loss: 3.6690 - mean_absolute_error: 1.3877 -
    val_loss: 5.0731 - val_mean_absolute_error: 1.5507
715 Epoch 320/800
716 - 0s - loss: 3.7118 - mean_absolute_error: 1.4008 -
    val_loss: 4.8430 - val_mean_absolute_error: 1.5352
717 Epoch 321/800
718 - 0s - loss: 3.7164 - mean_absolute_error: 1.4010 -
    val_loss: 4.9788 - val_mean_absolute_error: 1.5655
719 Epoch 322/800
720 - 0s - loss: 3.7358 - mean_absolute_error: 1.4046 -
    val_loss: 4.8112 - val_mean_absolute_error: 1.5341
721 Epoch 323/800
722 - 0s - loss: 3.6304 - mean_absolute_error: 1.3867 -
    val_loss: 5.0883 - val_mean_absolute_error: 1.6176
723 Epoch 324/800
724 - 0s - loss: 3.8009 - mean_absolute_error: 1.4226 -
    val_loss: 4.9082 - val_mean_absolute_error: 1.5506
725 Epoch 325/800
726 - 0s - loss: 3.5703 - mean_absolute_error: 1.3722 -
    val_loss: 4.7381 - val_mean_absolute_error: 1.5305
727 Epoch 326/800
728 - 0s - loss: 3.6379 - mean_absolute_error: 1.3807 -
    val_loss: 4.7774 - val_mean_absolute_error: 1.5688
729 Epoch 327/800
730 - 0s - loss: 3.6937 - mean_absolute_error: 1.3993 -
    val_loss: 4.7021 - val_mean_absolute_error: 1.5577
731 Epoch 328/800
```

```
732 - 0s - loss: 3.6641 - mean_absolute_error: 1.3908 -
    val_loss: 4.9579 - val_mean_absolute_error: 1.5950
733 Epoch 329/800
734 - 0s - loss: 3.7238 - mean_absolute_error: 1.4043 -
    val_loss: 4.8489 - val_mean_absolute_error: 1.5262
735 Epoch 330/800
736 - 0s - loss: 3.6233 - mean_absolute_error: 1.3757 -
    val_loss: 4.6927 - val_mean_absolute_error: 1.5639
737 Epoch 331/800
738 - 0s - loss: 3.5480 - mean_absolute_error: 1.3730 -
    val_loss: 4.7648 - val_mean_absolute_error: 1.5483
739 Epoch 332/800
740 - 0s - loss: 3.6796 - mean_absolute_error: 1.3972 -
    val_loss: 4.8758 - val_mean_absolute_error: 1.5491
741 Epoch 333/800
742 - 0s - loss: 3.5454 - mean_absolute_error: 1.3723 -
    val_loss: 5.1433 - val_mean_absolute_error: 1.5633
743 Epoch 334/800
744 - 0s - loss: 3.6982 - mean_absolute_error: 1.3879 -
    val_loss: 4.8037 - val_mean_absolute_error: 1.5652
745 Epoch 335/800
746 - 0s - loss: 3.5920 - mean_absolute_error: 1.3754 -
    val_loss: 4.8507 - val_mean_absolute_error: 1.5186
747 Epoch 336/800
748 - 0s - loss: 3.6126 - mean_absolute_error: 1.3762 -
    val_loss: 5.1374 - val_mean_absolute_error: 1.5604
749 Epoch 337/800
750 - 0s - loss: 3.6244 - mean_absolute_error: 1.3904 -
    val_loss: 5.8836 - val_mean_absolute_error: 1.6608
751 Epoch 338/800
752 - 0s - loss: 3.6098 - mean_absolute_error: 1.3792 -
    val_loss: 5.8707 - val_mean_absolute_error: 1.7953
753 Epoch 339/800
754 - 0s - loss: 3.6488 - mean_absolute_error: 1.3948 -
    val_loss: 4.7810 - val_mean_absolute_error: 1.5455
755 Epoch 340/800
756 - 0s - loss: 3.6874 - mean_absolute_error: 1.3928 -
    val_loss: 4.6353 - val_mean_absolute_error: 1.5341
757 Epoch 341/800
758 - 0s - loss: 3.5272 - mean_absolute_error: 1.3628 -
    val_loss: 4.9550 - val_mean_absolute_error: 1.5680
759 Epoch 342/800
760 - 0s - loss: 3.5801 - mean_absolute_error: 1.3704 -
    val_loss: 5.0043 - val_mean_absolute_error: 1.5605
761 Epoch 343/800
762 - 0s - loss: 3.5021 - mean_absolute_error: 1.3644 -
    val_loss: 5.5774 - val_mean_absolute_error: 1.6140
763 Epoch 344/800
764 - 0s - loss: 3.6081 - mean_absolute_error: 1.3748 -
    val_loss: 5.0841 - val_mean_absolute_error: 1.5582
```

```
765 Epoch 345/800
766 - 0s - loss: 3.6663 - mean_absolute_error: 1.3859 -
    val_loss: 5.0060 - val_mean_absolute_error: 1.5902
767 Epoch 346/800
768 - 0s - loss: 3.5204 - mean_absolute_error: 1.3664 -
    val_loss: 4.9583 - val_mean_absolute_error: 1.5591
769 Epoch 347/800
770 - 0s - loss: 3.6655 - mean_absolute_error: 1.3910 -
    val_loss: 4.8963 - val_mean_absolute_error: 1.5562
771 Epoch 348/800
772 - 0s - loss: 3.7144 - mean_absolute_error: 1.3971 -
    val_loss: 4.9004 - val_mean_absolute_error: 1.5536
773 Epoch 349/800
774 - 0s - loss: 3.5387 - mean_absolute_error: 1.3706 -
    val_loss: 4.9962 - val_mean_absolute_error: 1.5616
775 Epoch 350/800
776 - 0s - loss: 3.5594 - mean_absolute_error: 1.3641 -
    val_loss: 4.9741 - val_mean_absolute_error: 1.6154
777 Epoch 351/800
778 - 0s - loss: 3.6466 - mean_absolute_error: 1.3917 -
    val_loss: 5.0123 - val_mean_absolute_error: 1.5556
779 Epoch 352/800
780 - 0s - loss: 3.6031 - mean_absolute_error: 1.3813 -
    val_loss: 4.9162 - val_mean_absolute_error: 1.5937
781 Epoch 353/800
782 - 0s - loss: 3.6006 - mean_absolute_error: 1.3781 -
    val_loss: 4.9490 - val_mean_absolute_error: 1.5789
783 Epoch 354/800
784 - 0s - loss: 3.6135 - mean_absolute_error: 1.3794 -
    val_loss: 4.9642 - val_mean_absolute_error: 1.5487
785 Epoch 355/800
786 - 0s - loss: 3.6206 - mean_absolute_error: 1.3907 -
    val_loss: 5.1286 - val_mean_absolute_error: 1.5750
787 Epoch 356/800
788 - 0s - loss: 3.5300 - mean_absolute_error: 1.3647 -
    val_loss: 4.8047 - val_mean_absolute_error: 1.5455
789 Epoch 357/800
790 - 0s - loss: 3.7062 - mean_absolute_error: 1.4036 -
    val_loss: 5.1303 - val_mean_absolute_error: 1.5846
791 Epoch 358/800
792 - 0s - loss: 3.5989 - mean_absolute_error: 1.3733 -
    val_loss: 4.9723 - val_mean_absolute_error: 1.5555
793 Epoch 359/800
794 - 0s - loss: 3.5108 - mean_absolute_error: 1.3629 -
    val_loss: 4.8907 - val_mean_absolute_error: 1.5558
795 Epoch 360/800
796 - 0s - loss: 3.6831 - mean_absolute_error: 1.3979 -
    val_loss: 5.0912 - val_mean_absolute_error: 1.6444
797 Epoch 361/800
798 - 0s - loss: 3.5915 - mean_absolute_error: 1.3756 -
```

```
798 val_loss: 4.9206 - val_mean_absolute_error: 1.5669
799 Epoch 362/800
800 - 0s - loss: 3.5036 - mean_absolute_error: 1.3519 -
    val_loss: 4.8441 - val_mean_absolute_error: 1.5621
801 Epoch 363/800
802 - 0s - loss: 3.5990 - mean_absolute_error: 1.3834 -
    val_loss: 4.8175 - val_mean_absolute_error: 1.5486
803 Epoch 364/800
804 - 0s - loss: 3.5240 - mean_absolute_error: 1.3670 -
    val_loss: 5.0332 - val_mean_absolute_error: 1.5954
805 Epoch 365/800
806 - 0s - loss: 3.6208 - mean_absolute_error: 1.3818 -
    val_loss: 5.5757 - val_mean_absolute_error: 1.6286
807 Epoch 366/800
808 - 0s - loss: 3.5746 - mean_absolute_error: 1.3778 -
    val_loss: 4.8015 - val_mean_absolute_error: 1.5311
809 Epoch 367/800
810 - 0s - loss: 3.5950 - mean_absolute_error: 1.3767 -
    val_loss: 4.9596 - val_mean_absolute_error: 1.5455
811 Epoch 368/800
812 - 0s - loss: 3.4646 - mean_absolute_error: 1.3470 -
    val_loss: 4.9767 - val_mean_absolute_error: 1.6024
813 Epoch 369/800
814 - 0s - loss: 3.5540 - mean_absolute_error: 1.3690 -
    val_loss: 5.0429 - val_mean_absolute_error: 1.5639
815 Epoch 370/800
816 - 0s - loss: 3.5556 - mean_absolute_error: 1.3768 -
    val_loss: 5.0295 - val_mean_absolute_error: 1.5804
817 Epoch 371/800
818 - 0s - loss: 3.4998 - mean_absolute_error: 1.3562 -
    val_loss: 4.8171 - val_mean_absolute_error: 1.5507
819 Epoch 372/800
820 - 0s - loss: 3.6150 - mean_absolute_error: 1.3884 -
    val_loss: 5.1550 - val_mean_absolute_error: 1.5767
821 Epoch 373/800
822 - 0s - loss: 3.5221 - mean_absolute_error: 1.3743 -
    val_loss: 5.4528 - val_mean_absolute_error: 1.6004
823 Epoch 374/800
824 - 0s - loss: 3.5787 - mean_absolute_error: 1.3539 -
    val_loss: 4.7699 - val_mean_absolute_error: 1.5440
825 Epoch 375/800
826 - 0s - loss: 3.5277 - mean_absolute_error: 1.3741 -
    val_loss: 4.6647 - val_mean_absolute_error: 1.5139
827 Epoch 376/800
828 - 0s - loss: 3.4739 - mean_absolute_error: 1.3544 -
    val_loss: 5.0751 - val_mean_absolute_error: 1.5724
829 Epoch 377/800
830 - 0s - loss: 3.5620 - mean_absolute_error: 1.3752 -
    val_loss: 4.7331 - val_mean_absolute_error: 1.5743
831 Epoch 378/800
```

```
832 - 0s - loss: 3.6048 - mean_absolute_error: 1.3829 -  
     val_loss: 5.1010 - val_mean_absolute_error: 1.6091  
833 Epoch 379/800  
834 - 0s - loss: 3.5393 - mean_absolute_error: 1.3748 -  
     val_loss: 4.8205 - val_mean_absolute_error: 1.5778  
835 Epoch 380/800  
836 - 0s - loss: 3.4869 - mean_absolute_error: 1.3580 -  
     val_loss: 5.0095 - val_mean_absolute_error: 1.6201  
837 Epoch 381/800  
838 - 0s - loss: 3.6846 - mean_absolute_error: 1.3874 -  
     val_loss: 5.0210 - val_mean_absolute_error: 1.5580  
839 Epoch 382/800  
840 - 0s - loss: 3.4809 - mean_absolute_error: 1.3504 -  
     val_loss: 4.7768 - val_mean_absolute_error: 1.5345  
841 Epoch 383/800  
842 - 0s - loss: 3.5380 - mean_absolute_error: 1.3640 -  
     val_loss: 4.8242 - val_mean_absolute_error: 1.5561  
843 Epoch 384/800  
844 - 0s - loss: 3.4759 - mean_absolute_error: 1.3660 -  
     val_loss: 5.4150 - val_mean_absolute_error: 1.6053  
845 Epoch 385/800  
846 - 0s - loss: 3.5441 - mean_absolute_error: 1.3697 -  
     val_loss: 5.0969 - val_mean_absolute_error: 1.6437  
847 Epoch 386/800  
848 - 0s - loss: 3.5214 - mean_absolute_error: 1.3829 -  
     val_loss: 4.9655 - val_mean_absolute_error: 1.6005  
849 Epoch 387/800  
850 - 0s - loss: 3.4220 - mean_absolute_error: 1.3334 -  
     val_loss: 4.9796 - val_mean_absolute_error: 1.5664  
851 Epoch 388/800  
852 - 0s - loss: 3.5665 - mean_absolute_error: 1.3757 -  
     val_loss: 5.0031 - val_mean_absolute_error: 1.6375  
853 Epoch 389/800  
854 - 0s - loss: 3.4906 - mean_absolute_error: 1.3705 -  
     val_loss: 5.0475 - val_mean_absolute_error: 1.6407  
855 Epoch 390/800  
856 - 0s - loss: 3.4437 - mean_absolute_error: 1.3608 -  
     val_loss: 4.8572 - val_mean_absolute_error: 1.5791  
857 Epoch 391/800  
858 - 0s - loss: 3.5086 - mean_absolute_error: 1.3575 -  
     val_loss: 4.6535 - val_mean_absolute_error: 1.5343  
859 Epoch 392/800  
860 - 0s - loss: 3.4541 - mean_absolute_error: 1.3564 -  
     val_loss: 5.1502 - val_mean_absolute_error: 1.5981  
861 Epoch 393/800  
862 - 0s - loss: 3.5214 - mean_absolute_error: 1.3626 -  
     val_loss: 4.9924 - val_mean_absolute_error: 1.6080  
863 Epoch 394/800  
864 - 0s - loss: 3.5825 - mean_absolute_error: 1.3699 -  
     val_loss: 5.1871 - val_mean_absolute_error: 1.5734
```

```
865 Epoch 395/800
866 - 0s - loss: 3.4663 - mean_absolute_error: 1.3547 -
      val_loss: 5.1018 - val_mean_absolute_error: 1.6679
867 Epoch 396/800
868 - 0s - loss: 3.5522 - mean_absolute_error: 1.3748 -
      val_loss: 4.8037 - val_mean_absolute_error: 1.5347
869 Epoch 397/800
870 - 0s - loss: 3.4360 - mean_absolute_error: 1.3495 -
      val_loss: 5.3187 - val_mean_absolute_error: 1.6035
871 Epoch 398/800
872 - 0s - loss: 3.4709 - mean_absolute_error: 1.3683 -
      val_loss: 4.8323 - val_mean_absolute_error: 1.5584
873 Epoch 399/800
874 - 0s - loss: 3.4860 - mean_absolute_error: 1.3587 -
      val_loss: 5.3685 - val_mean_absolute_error: 1.6280
875 Epoch 400/800
876 - 0s - loss: 3.4717 - mean_absolute_error: 1.3627 -
      val_loss: 4.9620 - val_mean_absolute_error: 1.5551
877 Epoch 401/800
878 - 0s - loss: 3.4733 - mean_absolute_error: 1.3498 -
      val_loss: 4.9189 - val_mean_absolute_error: 1.5572
879 Epoch 402/800
880 - 0s - loss: 3.5022 - mean_absolute_error: 1.3700 -
      val_loss: 4.9742 - val_mean_absolute_error: 1.5976
881 Epoch 403/800
882 - 0s - loss: 3.5293 - mean_absolute_error: 1.3762 -
      val_loss: 4.9683 - val_mean_absolute_error: 1.5457
883 Epoch 404/800
884 - 0s - loss: 3.4261 - mean_absolute_error: 1.3514 -
      val_loss: 5.5341 - val_mean_absolute_error: 1.6088
885 Epoch 405/800
886 - 0s - loss: 3.5011 - mean_absolute_error: 1.3599 -
      val_loss: 4.8510 - val_mean_absolute_error: 1.5836
887 Epoch 406/800
888 - 0s - loss: 3.5602 - mean_absolute_error: 1.3756 -
      val_loss: 4.9915 - val_mean_absolute_error: 1.5487
889 Epoch 407/800
890 - 0s - loss: 3.4166 - mean_absolute_error: 1.3447 -
      val_loss: 5.2410 - val_mean_absolute_error: 1.6135
891 Epoch 408/800
892 - 0s - loss: 3.4876 - mean_absolute_error: 1.3532 -
      val_loss: 4.8770 - val_mean_absolute_error: 1.5554
893 Epoch 409/800
894 - 0s - loss: 3.5086 - mean_absolute_error: 1.3538 -
      val_loss: 5.3967 - val_mean_absolute_error: 1.6598
895 Epoch 410/800
896 - 0s - loss: 3.4972 - mean_absolute_error: 1.3680 -
      val_loss: 5.4064 - val_mean_absolute_error: 1.5930
897 Epoch 411/800
898 - 0s - loss: 3.3813 - mean_absolute_error: 1.3426 -
```

```
898 val_loss: 4.8432 - val_mean_absolute_error: 1.5400
899 Epoch 412/800
900 - 0s - loss: 3.4836 - mean_absolute_error: 1.3548 -
    val_loss: 4.7976 - val_mean_absolute_error: 1.5369
901 Epoch 413/800
902 - 0s - loss: 3.5604 - mean_absolute_error: 1.3635 -
    val_loss: 4.8740 - val_mean_absolute_error: 1.5435
903 Epoch 414/800
904 - 0s - loss: 3.3761 - mean_absolute_error: 1.3353 -
    val_loss: 4.9912 - val_mean_absolute_error: 1.5532
905 Epoch 415/800
906 - 0s - loss: 3.5221 - mean_absolute_error: 1.3611 -
    val_loss: 4.8777 - val_mean_absolute_error: 1.5393
907 Epoch 416/800
908 - 0s - loss: 3.3665 - mean_absolute_error: 1.3312 -
    val_loss: 5.0254 - val_mean_absolute_error: 1.6110
909 Epoch 417/800
910 - 0s - loss: 3.4621 - mean_absolute_error: 1.3587 -
    val_loss: 5.2631 - val_mean_absolute_error: 1.5849
911 Epoch 418/800
912 - 0s - loss: 3.3810 - mean_absolute_error: 1.3371 -
    val_loss: 4.9206 - val_mean_absolute_error: 1.5978
913 Epoch 419/800
914 - 0s - loss: 3.5361 - mean_absolute_error: 1.3545 -
    val_loss: 4.9621 - val_mean_absolute_error: 1.5888
915 Epoch 420/800
916 - 0s - loss: 3.3881 - mean_absolute_error: 1.3485 -
    val_loss: 5.0001 - val_mean_absolute_error: 1.5608
917 Epoch 421/800
918 - 0s - loss: 3.4165 - mean_absolute_error: 1.3439 -
    val_loss: 4.7213 - val_mean_absolute_error: 1.5316
919 Epoch 422/800
920 - 0s - loss: 3.4143 - mean_absolute_error: 1.3418 -
    val_loss: 5.0552 - val_mean_absolute_error: 1.5628
921 Epoch 423/800
922 - 0s - loss: 3.4539 - mean_absolute_error: 1.3432 -
    val_loss: 4.9491 - val_mean_absolute_error: 1.5641
923 Epoch 424/800
924 - 0s - loss: 3.5116 - mean_absolute_error: 1.3663 -
    val_loss: 5.5437 - val_mean_absolute_error: 1.6385
925 Epoch 425/800
926 - 0s - loss: 3.3388 - mean_absolute_error: 1.3286 -
    val_loss: 4.8703 - val_mean_absolute_error: 1.6047
927 Epoch 426/800
928 - 0s - loss: 3.3986 - mean_absolute_error: 1.3414 -
    val_loss: 4.7917 - val_mean_absolute_error: 1.5551
929 Epoch 427/800
930 - 0s - loss: 3.4152 - mean_absolute_error: 1.3468 -
    val_loss: 4.6517 - val_mean_absolute_error: 1.5308
931 Epoch 428/800
```

```
932 - 0s - loss: 3.4487 - mean_absolute_error: 1.3588 -  
    val_loss: 4.8733 - val_mean_absolute_error: 1.5594  
933 Epoch 429/800  
934 - 0s - loss: 3.5542 - mean_absolute_error: 1.3610 -  
    val_loss: 4.6881 - val_mean_absolute_error: 1.5354  
935 Epoch 430/800  
936 - 0s - loss: 3.3532 - mean_absolute_error: 1.3289 -  
    val_loss: 5.0482 - val_mean_absolute_error: 1.5589  
937 Epoch 431/800  
938 - 0s - loss: 3.4441 - mean_absolute_error: 1.3544 -  
    val_loss: 4.8398 - val_mean_absolute_error: 1.5428  
939 Epoch 432/800  
940 - 0s - loss: 3.4365 - mean_absolute_error: 1.3479 -  
    val_loss: 5.1163 - val_mean_absolute_error: 1.5735  
941 Epoch 433/800  
942 - 0s - loss: 3.3407 - mean_absolute_error: 1.3311 -  
    val_loss: 5.0437 - val_mean_absolute_error: 1.6200  
943 Epoch 434/800  
944 - 0s - loss: 3.3509 - mean_absolute_error: 1.3398 -  
    val_loss: 4.9600 - val_mean_absolute_error: 1.5538  
945 Epoch 435/800  
946 - 0s - loss: 3.4768 - mean_absolute_error: 1.3569 -  
    val_loss: 4.9905 - val_mean_absolute_error: 1.6344  
947 Epoch 436/800  
948 - 0s - loss: 3.3425 - mean_absolute_error: 1.3373 -  
    val_loss: 5.0796 - val_mean_absolute_error: 1.6338  
949 Epoch 437/800  
950 - 0s - loss: 3.4641 - mean_absolute_error: 1.3560 -  
    val_loss: 5.1327 - val_mean_absolute_error: 1.5801  
951 Epoch 438/800  
952 - 0s - loss: 3.3007 - mean_absolute_error: 1.3247 -  
    val_loss: 5.5167 - val_mean_absolute_error: 1.6701  
953 Epoch 439/800  
954 - 0s - loss: 3.4038 - mean_absolute_error: 1.3454 -  
    val_loss: 5.3848 - val_mean_absolute_error: 1.6865  
955 Epoch 440/800  
956 - 0s - loss: 3.3855 - mean_absolute_error: 1.3354 -  
    val_loss: 4.9699 - val_mean_absolute_error: 1.5829  
957 Epoch 441/800  
958 - 0s - loss: 3.4835 - mean_absolute_error: 1.3558 -  
    val_loss: 5.2598 - val_mean_absolute_error: 1.5862  
959 Epoch 442/800  
960 - 0s - loss: 3.3375 - mean_absolute_error: 1.3181 -  
    val_loss: 4.9215 - val_mean_absolute_error: 1.5946  
961 Epoch 443/800  
962 - 0s - loss: 3.3959 - mean_absolute_error: 1.3551 -  
    val_loss: 4.7890 - val_mean_absolute_error: 1.5836  
963 Epoch 444/800  
964 - 0s - loss: 3.3500 - mean_absolute_error: 1.3367 -  
    val_loss: 5.2874 - val_mean_absolute_error: 1.6249
```

```
965 Epoch 445/800
966   - 0s - loss: 3.4372 - mean_absolute_error: 1.3570 -
      val_loss: 5.0966 - val_mean_absolute_error: 1.5794
967 Epoch 446/800
968   - 0s - loss: 3.3412 - mean_absolute_error: 1.3268 -
      val_loss: 4.9753 - val_mean_absolute_error: 1.5916
969 Epoch 447/800
970   - 0s - loss: 3.3068 - mean_absolute_error: 1.3223 -
      val_loss: 4.9811 - val_mean_absolute_error: 1.5715
971 Epoch 448/800
972   - 0s - loss: 3.4041 - mean_absolute_error: 1.3510 -
      val_loss: 5.0308 - val_mean_absolute_error: 1.5750
973 Epoch 449/800
974   - 0s - loss: 3.4244 - mean_absolute_error: 1.3411 -
      val_loss: 5.1459 - val_mean_absolute_error: 1.6232
975 Epoch 450/800
976   - 0s - loss: 3.3206 - mean_absolute_error: 1.3336 -
      val_loss: 4.8718 - val_mean_absolute_error: 1.5443
977 Epoch 451/800
978   - 0s - loss: 3.3898 - mean_absolute_error: 1.3524 -
      val_loss: 5.0172 - val_mean_absolute_error: 1.5744
979 Epoch 452/800
980   - 0s - loss: 3.3736 - mean_absolute_error: 1.3280 -
      val_loss: 5.2542 - val_mean_absolute_error: 1.5818
981 Epoch 453/800
982   - 0s - loss: 3.3822 - mean_absolute_error: 1.3365 -
      val_loss: 4.9599 - val_mean_absolute_error: 1.5822
983 Epoch 454/800
984   - 0s - loss: 3.4240 - mean_absolute_error: 1.3443 -
      val_loss: 5.3420 - val_mean_absolute_error: 1.6543
985 Epoch 455/800
986   - 0s - loss: 3.3895 - mean_absolute_error: 1.3369 -
      val_loss: 5.4052 - val_mean_absolute_error: 1.6340
987 Epoch 456/800
988   - 0s - loss: 3.3182 - mean_absolute_error: 1.3291 -
      val_loss: 5.0165 - val_mean_absolute_error: 1.5689
989 Epoch 457/800
990   - 0s - loss: 3.3539 - mean_absolute_error: 1.3181 -
      val_loss: 5.1062 - val_mean_absolute_error: 1.5950
991 Epoch 458/800
992   - 0s - loss: 3.3187 - mean_absolute_error: 1.3287 -
      val_loss: 5.0578 - val_mean_absolute_error: 1.5971
993 Epoch 459/800
994   - 0s - loss: 3.3467 - mean_absolute_error: 1.3314 -
      val_loss: 4.9566 - val_mean_absolute_error: 1.5933
995 Epoch 460/800
996   - 0s - loss: 3.3322 - mean_absolute_error: 1.3258 -
      val_loss: 4.9593 - val_mean_absolute_error: 1.5903
997 Epoch 461/800
998   - 0s - loss: 3.3215 - mean_absolute_error: 1.3377 -
```

```
998 val_loss: 5.3097 - val_mean_absolute_error: 1.5951
999 Epoch 462/800
1000 - 0s - loss: 3.2710 - mean_absolute_error: 1.3162 -
      val_loss: 5.4154 - val_mean_absolute_error: 1.7460
1001 Epoch 463/800
1002 - 0s - loss: 3.3897 - mean_absolute_error: 1.3493 -
      val_loss: 5.1173 - val_mean_absolute_error: 1.6194
1003 Epoch 464/800
1004 - 0s - loss: 3.3237 - mean_absolute_error: 1.3261 -
      val_loss: 5.4229 - val_mean_absolute_error: 1.6122
1005 Epoch 465/800
1006 - 0s - loss: 3.3078 - mean_absolute_error: 1.3228 -
      val_loss: 5.0260 - val_mean_absolute_error: 1.5908
1007 Epoch 466/800
1008 - 0s - loss: 3.4039 - mean_absolute_error: 1.3294 -
      val_loss: 5.5230 - val_mean_absolute_error: 1.6851
1009 Epoch 467/800
1010 - 0s - loss: 3.4049 - mean_absolute_error: 1.3519 -
      val_loss: 5.1823 - val_mean_absolute_error: 1.5913
1011 Epoch 468/800
1012 - 0s - loss: 3.3576 - mean_absolute_error: 1.3284 -
      val_loss: 4.9120 - val_mean_absolute_error: 1.5559
1013 Epoch 469/800
1014 - 0s - loss: 3.3022 - mean_absolute_error: 1.3212 -
      val_loss: 5.3316 - val_mean_absolute_error: 1.6097
1015 Epoch 470/800
1016 - 0s - loss: 3.3546 - mean_absolute_error: 1.3337 -
      val_loss: 5.0770 - val_mean_absolute_error: 1.5660
1017 Epoch 471/800
1018 - 0s - loss: 3.3487 - mean_absolute_error: 1.3288 -
      val_loss: 4.7463 - val_mean_absolute_error: 1.5412
1019 Epoch 472/800
1020 - 0s - loss: 3.2760 - mean_absolute_error: 1.3253 -
      val_loss: 5.3576 - val_mean_absolute_error: 1.6130
1021 Epoch 473/800
1022 - 0s - loss: 3.2985 - mean_absolute_error: 1.3149 -
      val_loss: 4.8974 - val_mean_absolute_error: 1.5560
1023 Epoch 474/800
1024 - 0s - loss: 3.3104 - mean_absolute_error: 1.3294 -
      val_loss: 5.0583 - val_mean_absolute_error: 1.6319
1025 Epoch 475/800
1026 - 0s - loss: 3.2555 - mean_absolute_error: 1.3157 -
      val_loss: 5.1210 - val_mean_absolute_error: 1.5737
1027 Epoch 476/800
1028 - 0s - loss: 3.4164 - mean_absolute_error: 1.3469 -
      val_loss: 5.2457 - val_mean_absolute_error: 1.6183
1029 Epoch 477/800
1030 - 0s - loss: 3.2886 - mean_absolute_error: 1.3232 -
      val_loss: 5.1917 - val_mean_absolute_error: 1.5854
1031 Epoch 478/800
```

```
1032 - 0s - loss: 3.3924 - mean_absolute_error: 1.3359 -
      val_loss: 4.9563 - val_mean_absolute_error: 1.5576
1033 Epoch 479/800
1034 - 0s - loss: 3.2590 - mean_absolute_error: 1.3003 -
      val_loss: 5.1530 - val_mean_absolute_error: 1.5934
1035 Epoch 480/800
1036 - 0s - loss: 3.2558 - mean_absolute_error: 1.3152 -
      val_loss: 5.2054 - val_mean_absolute_error: 1.6037
1037 Epoch 481/800
1038 - 0s - loss: 3.2524 - mean_absolute_error: 1.3104 -
      val_loss: 5.2603 - val_mean_absolute_error: 1.6062
1039 Epoch 482/800
1040 - 0s - loss: 3.3020 - mean_absolute_error: 1.3260 -
      val_loss: 4.8335 - val_mean_absolute_error: 1.5458
1041 Epoch 483/800
1042 - 0s - loss: 3.3587 - mean_absolute_error: 1.3343 -
      val_loss: 4.8758 - val_mean_absolute_error: 1.5647
1043 Epoch 484/800
1044 - 0s - loss: 3.3355 - mean_absolute_error: 1.3340 -
      val_loss: 5.0017 - val_mean_absolute_error: 1.5771
1045 Epoch 485/800
1046 - 0s - loss: 3.2089 - mean_absolute_error: 1.3065 -
      val_loss: 5.0213 - val_mean_absolute_error: 1.6114
1047 Epoch 486/800
1048 - 0s - loss: 3.3431 - mean_absolute_error: 1.3364 -
      val_loss: 5.1888 - val_mean_absolute_error: 1.5667
1049 Epoch 487/800
1050 - 0s - loss: 3.2844 - mean_absolute_error: 1.3208 -
      val_loss: 5.0814 - val_mean_absolute_error: 1.5902
1051 Epoch 488/800
1052 - 0s - loss: 3.3341 - mean_absolute_error: 1.3286 -
      val_loss: 5.1299 - val_mean_absolute_error: 1.6525
1053 Epoch 489/800
1054 - 0s - loss: 3.2182 - mean_absolute_error: 1.3146 -
      val_loss: 5.0974 - val_mean_absolute_error: 1.5693
1055 Epoch 490/800
1056 - 0s - loss: 3.3752 - mean_absolute_error: 1.3369 -
      val_loss: 4.9293 - val_mean_absolute_error: 1.5696
1057 Epoch 491/800
1058 - 0s - loss: 3.3417 - mean_absolute_error: 1.3364 -
      val_loss: 5.0544 - val_mean_absolute_error: 1.5795
1059 Epoch 492/800
1060 - 0s - loss: 3.2531 - mean_absolute_error: 1.3075 -
      val_loss: 5.2114 - val_mean_absolute_error: 1.5939
1061 Epoch 493/800
1062 - 0s - loss: 3.2667 - mean_absolute_error: 1.3225 -
      val_loss: 5.1546 - val_mean_absolute_error: 1.5818
1063 Epoch 494/800
1064 - 0s - loss: 3.2069 - mean_absolute_error: 1.3053 -
      val_loss: 4.9480 - val_mean_absolute_error: 1.5584
```

```
1065 Epoch 495/800
1066   - 0s - loss: 3.3282 - mean_absolute_error: 1.3352 -
      val_loss: 5.1379 - val_mean_absolute_error: 1.6177
1067 Epoch 496/800
1068   - 0s - loss: 3.2449 - mean_absolute_error: 1.3158 -
      val_loss: 4.9657 - val_mean_absolute_error: 1.5589
1069 Epoch 497/800
1070   - 0s - loss: 3.1929 - mean_absolute_error: 1.2947 -
      val_loss: 5.0383 - val_mean_absolute_error: 1.6347
1071 Epoch 498/800
1072   - 0s - loss: 3.3022 - mean_absolute_error: 1.3275 -
      val_loss: 5.1741 - val_mean_absolute_error: 1.5839
1073 Epoch 499/800
1074   - 0s - loss: 3.2096 - mean_absolute_error: 1.3077 -
      val_loss: 5.3257 - val_mean_absolute_error: 1.6122
1075 Epoch 500/800
1076   - 0s - loss: 3.3644 - mean_absolute_error: 1.3329 -
      val_loss: 5.3275 - val_mean_absolute_error: 1.6406
1077 Epoch 501/800
1078   - 0s - loss: 3.3109 - mean_absolute_error: 1.3183 -
      val_loss: 5.0976 - val_mean_absolute_error: 1.6026
1079 Epoch 502/800
1080   - 0s - loss: 3.2778 - mean_absolute_error: 1.3172 -
      val_loss: 5.1491 - val_mean_absolute_error: 1.6404
1081 Epoch 503/800
1082   - 0s - loss: 3.1828 - mean_absolute_error: 1.3031 -
      val_loss: 5.1404 - val_mean_absolute_error: 1.6155
1083 Epoch 504/800
1084   - 0s - loss: 3.2216 - mean_absolute_error: 1.3196 -
      val_loss: 5.0121 - val_mean_absolute_error: 1.5867
1085 Epoch 505/800
1086   - 0s - loss: 3.2518 - mean_absolute_error: 1.3139 -
      val_loss: 4.7805 - val_mean_absolute_error: 1.5646
1087 Epoch 506/800
1088   - 0s - loss: 3.2247 - mean_absolute_error: 1.3147 -
      val_loss: 5.0857 - val_mean_absolute_error: 1.6200
1089 Epoch 507/800
1090   - 0s - loss: 3.2952 - mean_absolute_error: 1.3168 -
      val_loss: 5.1238 - val_mean_absolute_error: 1.5968
1091 Epoch 508/800
1092   - 0s - loss: 3.2117 - mean_absolute_error: 1.3143 -
      val_loss: 5.2122 - val_mean_absolute_error: 1.6289
1093 Epoch 509/800
1094   - 0s - loss: 3.2494 - mean_absolute_error: 1.3138 -
      val_loss: 5.3635 - val_mean_absolute_error: 1.6090
1095 Epoch 510/800
1096   - 0s - loss: 3.3487 - mean_absolute_error: 1.3280 -
      val_loss: 5.1764 - val_mean_absolute_error: 1.6431
1097 Epoch 511/800
1098   - 0s - loss: 3.2985 - mean_absolute_error: 1.3149 -
```

```
1098 val_loss: 5.3074 - val_mean_absolute_error: 1.6080
1099 Epoch 512/800
1100 - 0s - loss: 3.3162 - mean_absolute_error: 1.3169 -
    val_loss: 4.8015 - val_mean_absolute_error: 1.5735
1101 Epoch 513/800
1102 - 0s - loss: 3.2255 - mean_absolute_error: 1.3187 -
    val_loss: 5.5768 - val_mean_absolute_error: 1.6487
1103 Epoch 514/800
1104 - 0s - loss: 3.2455 - mean_absolute_error: 1.3132 -
    val_loss: 5.6814 - val_mean_absolute_error: 1.8001
1105 Epoch 515/800
1106 - 0s - loss: 3.2357 - mean_absolute_error: 1.3125 -
    val_loss: 5.1889 - val_mean_absolute_error: 1.6507
1107 Epoch 516/800
1108 - 0s - loss: 3.2047 - mean_absolute_error: 1.3087 -
    val_loss: 5.1090 - val_mean_absolute_error: 1.6062
1109 Epoch 517/800
1110 - 0s - loss: 3.2609 - mean_absolute_error: 1.3213 -
    val_loss: 5.0053 - val_mean_absolute_error: 1.5895
1111 Epoch 518/800
1112 - 0s - loss: 3.1752 - mean_absolute_error: 1.2943 -
    val_loss: 5.2126 - val_mean_absolute_error: 1.6407
1113 Epoch 519/800
1114 - 0s - loss: 3.1732 - mean_absolute_error: 1.3050 -
    val_loss: 5.2562 - val_mean_absolute_error: 1.6780
1115 Epoch 520/800
1116 - 0s - loss: 3.1911 - mean_absolute_error: 1.3083 -
    val_loss: 5.3412 - val_mean_absolute_error: 1.6182
1117 Epoch 521/800
1118 - 0s - loss: 3.2113 - mean_absolute_error: 1.2984 -
    val_loss: 5.2508 - val_mean_absolute_error: 1.6513
1119 Epoch 522/800
1120 - 0s - loss: 3.2840 - mean_absolute_error: 1.3165 -
    val_loss: 5.3135 - val_mean_absolute_error: 1.6052
1121 Epoch 523/800
1122 - 0s - loss: 3.1701 - mean_absolute_error: 1.3046 -
    val_loss: 5.0463 - val_mean_absolute_error: 1.5800
1123 Epoch 524/800
1124 - 0s - loss: 3.2518 - mean_absolute_error: 1.2973 -
    val_loss: 5.1949 - val_mean_absolute_error: 1.6078
1125 Epoch 525/800
1126 - 0s - loss: 3.1859 - mean_absolute_error: 1.3089 -
    val_loss: 5.0720 - val_mean_absolute_error: 1.5919
1127 Epoch 526/800
1128 - 0s - loss: 3.2170 - mean_absolute_error: 1.3082 -
    val_loss: 5.1735 - val_mean_absolute_error: 1.6053
1129 Epoch 527/800
1130 - 0s - loss: 3.2252 - mean_absolute_error: 1.3057 -
    val_loss: 5.0449 - val_mean_absolute_error: 1.6047
1131 Epoch 528/800
```

```
1132 - 0s - loss: 3.3366 - mean_absolute_error: 1.3231 -  
    val_loss: 4.9046 - val_mean_absolute_error: 1.5725  
1133 Epoch 529/800  
1134 - 0s - loss: 3.1906 - mean_absolute_error: 1.3074 -  
    val_loss: 4.9429 - val_mean_absolute_error: 1.5846  
1135 Epoch 530/800  
1136 - 0s - loss: 3.3171 - mean_absolute_error: 1.3162 -  
    val_loss: 4.8427 - val_mean_absolute_error: 1.5622  
1137 Epoch 531/800  
1138 - 0s - loss: 3.1972 - mean_absolute_error: 1.3010 -  
    val_loss: 5.1543 - val_mean_absolute_error: 1.5995  
1139 Epoch 532/800  
1140 - 0s - loss: 3.2768 - mean_absolute_error: 1.3233 -  
    val_loss: 5.2014 - val_mean_absolute_error: 1.5930  
1141 Epoch 533/800  
1142 - 0s - loss: 3.1935 - mean_absolute_error: 1.3041 -  
    val_loss: 5.5964 - val_mean_absolute_error: 1.7550  
1143 Epoch 534/800  
1144 - 0s - loss: 3.1895 - mean_absolute_error: 1.3001 -  
    val_loss: 5.2254 - val_mean_absolute_error: 1.6204  
1145 Epoch 535/800  
1146 - 0s - loss: 3.1745 - mean_absolute_error: 1.3131 -  
    val_loss: 5.0742 - val_mean_absolute_error: 1.5904  
1147 Epoch 536/800  
1148 - 0s - loss: 3.2176 - mean_absolute_error: 1.3042 -  
    val_loss: 5.1216 - val_mean_absolute_error: 1.5875  
1149 Epoch 537/800  
1150 - 0s - loss: 3.1941 - mean_absolute_error: 1.2995 -  
    val_loss: 5.3971 - val_mean_absolute_error: 1.6220  
1151 Epoch 538/800  
1152 - 0s - loss: 3.2174 - mean_absolute_error: 1.3016 -  
    val_loss: 4.9674 - val_mean_absolute_error: 1.5861  
1153 Epoch 539/800  
1154 - 0s - loss: 3.2274 - mean_absolute_error: 1.3128 -  
    val_loss: 5.2310 - val_mean_absolute_error: 1.6420  
1155 Epoch 540/800  
1156 - 0s - loss: 3.1887 - mean_absolute_error: 1.2998 -  
    val_loss: 5.3312 - val_mean_absolute_error: 1.7035  
1157 Epoch 541/800  
1158 - 0s - loss: 3.1984 - mean_absolute_error: 1.3038 -  
    val_loss: 5.6880 - val_mean_absolute_error: 1.6584  
1159 Epoch 542/800  
1160 - 0s - loss: 3.1857 - mean_absolute_error: 1.3078 -  
    val_loss: 5.0941 - val_mean_absolute_error: 1.5953  
1161 Epoch 543/800  
1162 - 0s - loss: 3.1826 - mean_absolute_error: 1.3090 -  
    val_loss: 5.2432 - val_mean_absolute_error: 1.6057  
1163 Epoch 544/800  
1164 - 0s - loss: 3.2413 - mean_absolute_error: 1.2942 -  
    val_loss: 5.1402 - val_mean_absolute_error: 1.6210
```

```
1165 Epoch 545/800
1166   - 0s - loss: 3.1382 - mean_absolute_error: 1.2840 -
      val_loss: 5.2022 - val_mean_absolute_error: 1.5915
1167 Epoch 546/800
1168   - 0s - loss: 3.2018 - mean_absolute_error: 1.2981 -
      val_loss: 5.2453 - val_mean_absolute_error: 1.6133
1169 Epoch 547/800
1170   - 0s - loss: 3.1988 - mean_absolute_error: 1.2987 -
      val_loss: 5.9955 - val_mean_absolute_error: 1.8386
1171 Epoch 548/800
1172   - 0s - loss: 3.2835 - mean_absolute_error: 1.3218 -
      val_loss: 5.3255 - val_mean_absolute_error: 1.6362
1173 Epoch 549/800
1174   - 0s - loss: 3.1370 - mean_absolute_error: 1.3014 -
      val_loss: 5.2679 - val_mean_absolute_error: 1.6238
1175 Epoch 550/800
1176   - 0s - loss: 3.2120 - mean_absolute_error: 1.3070 -
      val_loss: 5.3223 - val_mean_absolute_error: 1.6508
1177 Epoch 551/800
1178   - 0s - loss: 3.2002 - mean_absolute_error: 1.3072 -
      val_loss: 5.3065 - val_mean_absolute_error: 1.6555
1179 Epoch 552/800
1180   - 0s - loss: 3.2005 - mean_absolute_error: 1.3116 -
      val_loss: 5.1796 - val_mean_absolute_error: 1.6044
1181 Epoch 553/800
1182   - 0s - loss: 3.1772 - mean_absolute_error: 1.3149 -
      val_loss: 4.9720 - val_mean_absolute_error: 1.5820
1183 Epoch 554/800
1184   - 0s - loss: 3.1819 - mean_absolute_error: 1.2999 -
      val_loss: 5.0138 - val_mean_absolute_error: 1.5914
1185 Epoch 555/800
1186   - 0s - loss: 3.2315 - mean_absolute_error: 1.3088 -
      val_loss: 5.3353 - val_mean_absolute_error: 1.6137
1187 Epoch 556/800
1188   - 0s - loss: 3.1569 - mean_absolute_error: 1.3027 -
      val_loss: 5.2044 - val_mean_absolute_error: 1.6124
1189 Epoch 557/800
1190   - 0s - loss: 3.1620 - mean_absolute_error: 1.2900 -
      val_loss: 5.0713 - val_mean_absolute_error: 1.6180
1191 Epoch 558/800
1192   - 0s - loss: 3.1311 - mean_absolute_error: 1.2955 -
      val_loss: 5.3461 - val_mean_absolute_error: 1.6340
1193 Epoch 559/800
1194   - 0s - loss: 3.2072 - mean_absolute_error: 1.3041 -
      val_loss: 5.2025 - val_mean_absolute_error: 1.6081
1195 Epoch 560/800
1196   - 0s - loss: 3.1412 - mean_absolute_error: 1.2928 -
      val_loss: 5.2387 - val_mean_absolute_error: 1.5970
1197 Epoch 561/800
1198   - 0s - loss: 3.1538 - mean_absolute_error: 1.2895 -
```

```
1198 val_loss: 5.1614 - val_mean_absolute_error: 1.6785
1199 Epoch 562/800
1200 - 0s - loss: 3.1931 - mean_absolute_error: 1.3073 -
    val_loss: 5.0223 - val_mean_absolute_error: 1.5760
1201 Epoch 563/800
1202 - 0s - loss: 3.1953 - mean_absolute_error: 1.2927 -
    val_loss: 5.3244 - val_mean_absolute_error: 1.6385
1203 Epoch 564/800
1204 - 0s - loss: 3.1614 - mean_absolute_error: 1.2927 -
    val_loss: 5.4054 - val_mean_absolute_error: 1.6298
1205 Epoch 565/800
1206 - 0s - loss: 3.1191 - mean_absolute_error: 1.2894 -
    val_loss: 5.5418 - val_mean_absolute_error: 1.6666
1207 Epoch 566/800
1208 - 0s - loss: 3.1241 - mean_absolute_error: 1.2829 -
    val_loss: 5.1248 - val_mean_absolute_error: 1.6053
1209 Epoch 567/800
1210 - 0s - loss: 3.1249 - mean_absolute_error: 1.2997 -
    val_loss: 5.1985 - val_mean_absolute_error: 1.6207
1211 Epoch 568/800
1212 - 0s - loss: 3.1418 - mean_absolute_error: 1.2957 -
    val_loss: 5.2417 - val_mean_absolute_error: 1.6250
1213 Epoch 569/800
1214 - 0s - loss: 3.1125 - mean_absolute_error: 1.3005 -
    val_loss: 5.1941 - val_mean_absolute_error: 1.6091
1215 Epoch 570/800
1216 - 0s - loss: 3.0344 - mean_absolute_error: 1.2678 -
    val_loss: 5.9979 - val_mean_absolute_error: 1.7894
1217 Epoch 571/800
1218 - 0s - loss: 3.1670 - mean_absolute_error: 1.3072 -
    val_loss: 5.1481 - val_mean_absolute_error: 1.6119
1219 Epoch 572/800
1220 - 0s - loss: 3.1927 - mean_absolute_error: 1.3053 -
    val_loss: 5.2167 - val_mean_absolute_error: 1.6278
1221 Epoch 573/800
1222 - 0s - loss: 3.0319 - mean_absolute_error: 1.2809 -
    val_loss: 5.2994 - val_mean_absolute_error: 1.6604
1223 Epoch 574/800
1224 - 0s - loss: 3.2105 - mean_absolute_error: 1.3083 -
    val_loss: 5.3647 - val_mean_absolute_error: 1.6256
1225 Epoch 575/800
1226 - 0s - loss: 3.1358 - mean_absolute_error: 1.3011 -
    val_loss: 5.0663 - val_mean_absolute_error: 1.5963
1227 Epoch 576/800
1228 - 0s - loss: 3.0915 - mean_absolute_error: 1.2993 -
    val_loss: 5.2599 - val_mean_absolute_error: 1.6556
1229 Epoch 577/800
1230 - 0s - loss: 3.0335 - mean_absolute_error: 1.2864 -
    val_loss: 5.6820 - val_mean_absolute_error: 1.7380
1231 Epoch 578/800
```

```
1232 - 0s - loss: 3.0990 - mean_absolute_error: 1.2838 -
      val_loss: 5.1973 - val_mean_absolute_error: 1.6056
1233 Epoch 579/800
1234 - 0s - loss: 3.1885 - mean_absolute_error: 1.3114 -
      val_loss: 5.5193 - val_mean_absolute_error: 1.7066
1235 Epoch 580/800
1236 - 0s - loss: 2.9902 - mean_absolute_error: 1.2619 -
      val_loss: 5.8218 - val_mean_absolute_error: 1.7122
1237 Epoch 581/800
1238 - 0s - loss: 3.1599 - mean_absolute_error: 1.2923 -
      val_loss: 5.2822 - val_mean_absolute_error: 1.6228
1239 Epoch 582/800
1240 - 0s - loss: 3.1031 - mean_absolute_error: 1.2834 -
      val_loss: 5.3384 - val_mean_absolute_error: 1.6186
1241 Epoch 583/800
1242 - 0s - loss: 3.1097 - mean_absolute_error: 1.2879 -
      val_loss: 5.3183 - val_mean_absolute_error: 1.6388
1243 Epoch 584/800
1244 - 0s - loss: 3.1222 - mean_absolute_error: 1.2957 -
      val_loss: 5.3621 - val_mean_absolute_error: 1.6264
1245 Epoch 585/800
1246 - 0s - loss: 3.0697 - mean_absolute_error: 1.2811 -
      val_loss: 5.2383 - val_mean_absolute_error: 1.6125
1247 Epoch 586/800
1248 - 0s - loss: 3.0654 - mean_absolute_error: 1.2791 -
      val_loss: 5.6720 - val_mean_absolute_error: 1.7223
1249 Epoch 587/800
1250 - 0s - loss: 3.0922 - mean_absolute_error: 1.2799 -
      val_loss: 5.2261 - val_mean_absolute_error: 1.6045
1251 Epoch 588/800
1252 - 0s - loss: 3.1072 - mean_absolute_error: 1.2813 -
      val_loss: 5.7222 - val_mean_absolute_error: 1.6561
1253 Epoch 589/800
1254 - 0s - loss: 3.1437 - mean_absolute_error: 1.3018 -
      val_loss: 5.1868 - val_mean_absolute_error: 1.6024
1255 Epoch 590/800
1256 - 0s - loss: 3.1076 - mean_absolute_error: 1.2832 -
      val_loss: 5.5529 - val_mean_absolute_error: 1.6828
1257 Epoch 591/800
1258 - 0s - loss: 3.0454 - mean_absolute_error: 1.2771 -
      val_loss: 5.2392 - val_mean_absolute_error: 1.6563
1259 Epoch 592/800
1260 - 0s - loss: 3.0300 - mean_absolute_error: 1.2744 -
      val_loss: 5.5373 - val_mean_absolute_error: 1.6747
1261 Epoch 593/800
1262 - 0s - loss: 3.0586 - mean_absolute_error: 1.2699 -
      val_loss: 5.3663 - val_mean_absolute_error: 1.6985
1263 Epoch 594/800
1264 - 0s - loss: 3.0640 - mean_absolute_error: 1.2764 -
      val_loss: 5.7243 - val_mean_absolute_error: 1.6610
```

```
1265 Epoch 595/800
1266 - 0s - loss: 3.0519 - mean_absolute_error: 1.2801 -
    val_loss: 5.2997 - val_mean_absolute_error: 1.6256
1267 Epoch 596/800
1268 - 0s - loss: 3.0644 - mean_absolute_error: 1.2864 -
    val_loss: 5.6027 - val_mean_absolute_error: 1.6780
1269 Epoch 597/800
1270 - 0s - loss: 3.0748 - mean_absolute_error: 1.2799 -
    val_loss: 5.2858 - val_mean_absolute_error: 1.6345
1271 Epoch 598/800
1272 - 0s - loss: 3.0973 - mean_absolute_error: 1.2918 -
    val_loss: 5.7570 - val_mean_absolute_error: 1.6711
1273 Epoch 599/800
1274 - 0s - loss: 3.0083 - mean_absolute_error: 1.2749 -
    val_loss: 5.2072 - val_mean_absolute_error: 1.6269
1275 Epoch 600/800
1276 - 0s - loss: 3.1307 - mean_absolute_error: 1.2927 -
    val_loss: 5.5393 - val_mean_absolute_error: 1.7188
1277 Epoch 601/800
1278 - 0s - loss: 3.0432 - mean_absolute_error: 1.2663 -
    val_loss: 5.4077 - val_mean_absolute_error: 1.6243
1279 Epoch 602/800
1280 - 0s - loss: 2.9784 - mean_absolute_error: 1.2682 -
    val_loss: 5.2861 - val_mean_absolute_error: 1.6576
1281 Epoch 603/800
1282 - 0s - loss: 3.1061 - mean_absolute_error: 1.2910 -
    val_loss: 5.1963 - val_mean_absolute_error: 1.6060
1283 Epoch 604/800
1284 - 0s - loss: 3.0070 - mean_absolute_error: 1.2611 -
    val_loss: 5.3511 - val_mean_absolute_error: 1.6888
1285 Epoch 605/800
1286 - 0s - loss: 3.1015 - mean_absolute_error: 1.2950 -
    val_loss: 5.2568 - val_mean_absolute_error: 1.6033
1287 Epoch 606/800
1288 - 0s - loss: 3.0342 - mean_absolute_error: 1.2638 -
    val_loss: 5.7001 - val_mean_absolute_error: 1.6594
1289 Epoch 607/800
1290 - 0s - loss: 3.0360 - mean_absolute_error: 1.2724 -
    val_loss: 5.4042 - val_mean_absolute_error: 1.6445
1291 Epoch 608/800
1292 - 0s - loss: 3.0131 - mean_absolute_error: 1.2739 -
    val_loss: 5.4061 - val_mean_absolute_error: 1.6264
1293 Epoch 609/800
1294 - 0s - loss: 3.1354 - mean_absolute_error: 1.2953 -
    val_loss: 5.4703 - val_mean_absolute_error: 1.6410
1295 Epoch 610/800
1296 - 0s - loss: 2.9658 - mean_absolute_error: 1.2494 -
    val_loss: 5.4583 - val_mean_absolute_error: 1.6612
1297 Epoch 611/800
1298 - 0s - loss: 3.0369 - mean_absolute_error: 1.2700 -
```

```
1298 val_loss: 5.3498 - val_mean_absolute_error: 1.6396
1299 Epoch 612/800
1300 - 0s - loss: 3.0427 - mean_absolute_error: 1.2683 -
    val_loss: 5.7066 - val_mean_absolute_error: 1.6742
1301 Epoch 613/800
1302 - 0s - loss: 3.1716 - mean_absolute_error: 1.2982 -
    val_loss: 5.2784 - val_mean_absolute_error: 1.6528
1303 Epoch 614/800
1304 - 0s - loss: 3.0020 - mean_absolute_error: 1.2741 -
    val_loss: 5.3483 - val_mean_absolute_error: 1.6229
1305 Epoch 615/800
1306 - 0s - loss: 3.0467 - mean_absolute_error: 1.2760 -
    val_loss: 5.2034 - val_mean_absolute_error: 1.6089
1307 Epoch 616/800
1308 - 0s - loss: 2.9674 - mean_absolute_error: 1.2553 -
    val_loss: 5.6296 - val_mean_absolute_error: 1.6733
1309 Epoch 617/800
1310 - 0s - loss: 3.0174 - mean_absolute_error: 1.2639 -
    val_loss: 5.2847 - val_mean_absolute_error: 1.6293
1311 Epoch 618/800
1312 - 0s - loss: 3.0056 - mean_absolute_error: 1.2636 -
    val_loss: 5.1493 - val_mean_absolute_error: 1.6250
1313 Epoch 619/800
1314 - 0s - loss: 3.0408 - mean_absolute_error: 1.2777 -
    val_loss: 5.2568 - val_mean_absolute_error: 1.6393
1315 Epoch 620/800
1316 - 0s - loss: 3.0280 - mean_absolute_error: 1.2714 -
    val_loss: 5.6041 - val_mean_absolute_error: 1.6845
1317 Epoch 621/800
1318 - 0s - loss: 2.9954 - mean_absolute_error: 1.2698 -
    val_loss: 5.3161 - val_mean_absolute_error: 1.6385
1319 Epoch 622/800
1320 - 0s - loss: 3.0900 - mean_absolute_error: 1.2827 -
    val_loss: 5.7700 - val_mean_absolute_error: 1.6650
1321 Epoch 623/800
1322 - 0s - loss: 3.0762 - mean_absolute_error: 1.2676 -
    val_loss: 5.1963 - val_mean_absolute_error: 1.6190
1323 Epoch 624/800
1324 - 0s - loss: 2.8960 - mean_absolute_error: 1.2445 -
    val_loss: 5.2489 - val_mean_absolute_error: 1.6018
1325 Epoch 625/800
1326 - 0s - loss: 2.9643 - mean_absolute_error: 1.2549 -
    val_loss: 5.3343 - val_mean_absolute_error: 1.6238
1327 Epoch 626/800
1328 - 0s - loss: 3.0001 - mean_absolute_error: 1.2715 -
    val_loss: 5.2483 - val_mean_absolute_error: 1.6117
1329 Epoch 627/800
1330 - 0s - loss: 2.9761 - mean_absolute_error: 1.2662 -
    val_loss: 5.1392 - val_mean_absolute_error: 1.5964
1331 Epoch 628/800
```

```
1332 - 0s - loss: 2.9626 - mean_absolute_error: 1.2561 -  
      val_loss: 5.4808 - val_mean_absolute_error: 1.6404  
1333 Epoch 629/800  
1334 - 0s - loss: 2.9557 - mean_absolute_error: 1.2566 -  
      val_loss: 5.7596 - val_mean_absolute_error: 1.6873  
1335 Epoch 630/800  
1336 - 0s - loss: 3.0508 - mean_absolute_error: 1.2637 -  
      val_loss: 5.4835 - val_mean_absolute_error: 1.6307  
1337 Epoch 631/800  
1338 - 0s - loss: 3.0044 - mean_absolute_error: 1.2760 -  
      val_loss: 5.4988 - val_mean_absolute_error: 1.6418  
1339 Epoch 632/800  
1340 - 0s - loss: 2.9903 - mean_absolute_error: 1.2547 -  
      val_loss: 5.3989 - val_mean_absolute_error: 1.6596  
1341 Epoch 633/800  
1342 - 0s - loss: 3.0147 - mean_absolute_error: 1.2684 -  
      val_loss: 5.3324 - val_mean_absolute_error: 1.6650  
1343 Epoch 634/800  
1344 - 0s - loss: 3.0018 - mean_absolute_error: 1.2762 -  
      val_loss: 5.4206 - val_mean_absolute_error: 1.6354  
1345 Epoch 635/800  
1346 - 0s - loss: 2.9753 - mean_absolute_error: 1.2696 -  
      val_loss: 5.4013 - val_mean_absolute_error: 1.6472  
1347 Epoch 636/800  
1348 - 0s - loss: 3.0304 - mean_absolute_error: 1.2742 -  
      val_loss: 5.2249 - val_mean_absolute_error: 1.6230  
1349 Epoch 637/800  
1350 - 0s - loss: 3.0161 - mean_absolute_error: 1.2640 -  
      val_loss: 5.7243 - val_mean_absolute_error: 1.7441  
1351 Epoch 638/800  
1352 - 0s - loss: 3.0291 - mean_absolute_error: 1.2656 -  
      val_loss: 5.7451 - val_mean_absolute_error: 1.6869  
1353 Epoch 639/800  
1354 - 0s - loss: 3.0725 - mean_absolute_error: 1.2824 -  
      val_loss: 5.4327 - val_mean_absolute_error: 1.6495  
1355 Epoch 640/800  
1356 - 0s - loss: 3.0018 - mean_absolute_error: 1.2694 -  
      val_loss: 5.5548 - val_mean_absolute_error: 1.6463  
1357 Epoch 641/800  
1358 - 0s - loss: 3.0065 - mean_absolute_error: 1.2602 -  
      val_loss: 5.2861 - val_mean_absolute_error: 1.6408  
1359 Epoch 642/800  
1360 - 0s - loss: 2.9674 - mean_absolute_error: 1.2619 -  
      val_loss: 5.5224 - val_mean_absolute_error: 1.6531  
1361 Epoch 643/800  
1362 - 0s - loss: 3.0365 - mean_absolute_error: 1.2767 -  
      val_loss: 5.3799 - val_mean_absolute_error: 1.6392  
1363 Epoch 644/800  
1364 - 0s - loss: 2.9334 - mean_absolute_error: 1.2458 -  
      val_loss: 5.8817 - val_mean_absolute_error: 1.7062
```

```
1365 Epoch 645/800
1366   - 0s - loss: 3.0679 - mean_absolute_error: 1.2692 -
      val_loss: 5.1124 - val_mean_absolute_error: 1.6416
1367 Epoch 646/800
1368   - 0s - loss: 2.9470 - mean_absolute_error: 1.2638 -
      val_loss: 5.4290 - val_mean_absolute_error: 1.6258
1369 Epoch 647/800
1370   - 0s - loss: 2.9709 - mean_absolute_error: 1.2576 -
      val_loss: 5.8116 - val_mean_absolute_error: 1.6985
1371 Epoch 648/800
1372   - 0s - loss: 2.9225 - mean_absolute_error: 1.2481 -
      val_loss: 5.5752 - val_mean_absolute_error: 1.6895
1373 Epoch 649/800
1374   - 0s - loss: 2.9803 - mean_absolute_error: 1.2626 -
      val_loss: 5.5595 - val_mean_absolute_error: 1.7552
1375 Epoch 650/800
1376   - 0s - loss: 2.9327 - mean_absolute_error: 1.2703 -
      val_loss: 5.3664 - val_mean_absolute_error: 1.6312
1377 Epoch 651/800
1378   - 0s - loss: 3.0437 - mean_absolute_error: 1.2820 -
      val_loss: 5.5161 - val_mean_absolute_error: 1.6381
1379 Epoch 652/800
1380   - 0s - loss: 2.9070 - mean_absolute_error: 1.2474 -
      val_loss: 5.4030 - val_mean_absolute_error: 1.6483
1381 Epoch 653/800
1382   - 0s - loss: 2.9731 - mean_absolute_error: 1.2503 -
      val_loss: 5.3963 - val_mean_absolute_error: 1.6272
1383 Epoch 654/800
1384   - 0s - loss: 2.9478 - mean_absolute_error: 1.2550 -
      val_loss: 5.5554 - val_mean_absolute_error: 1.6850
1385 Epoch 655/800
1386   - 0s - loss: 2.9027 - mean_absolute_error: 1.2431 -
      val_loss: 5.2930 - val_mean_absolute_error: 1.6362
1387 Epoch 656/800
1388   - 0s - loss: 2.9462 - mean_absolute_error: 1.2574 -
      val_loss: 5.6327 - val_mean_absolute_error: 1.6602
1389 Epoch 657/800
1390   - 0s - loss: 3.0320 - mean_absolute_error: 1.2771 -
      val_loss: 5.5678 - val_mean_absolute_error: 1.6543
1391 Epoch 658/800
1392   - 0s - loss: 2.9592 - mean_absolute_error: 1.2547 -
      val_loss: 5.5915 - val_mean_absolute_error: 1.6559
1393 Epoch 659/800
1394   - 0s - loss: 2.8827 - mean_absolute_error: 1.2435 -
      val_loss: 5.6299 - val_mean_absolute_error: 1.6636
1395 Epoch 660/800
1396   - 0s - loss: 2.9865 - mean_absolute_error: 1.2677 -
      val_loss: 5.8009 - val_mean_absolute_error: 1.6651
1397 Epoch 661/800
1398   - 0s - loss: 2.9222 - mean_absolute_error: 1.2428 -
```

```
1398 val_loss: 5.3779 - val_mean_absolute_error: 1.6448
1399 Epoch 662/800
1400 - 0s - loss: 2.8504 - mean_absolute_error: 1.2434 -
    val_loss: 5.7978 - val_mean_absolute_error: 1.7334
1401 Epoch 663/800
1402 - 0s - loss: 2.9784 - mean_absolute_error: 1.2578 -
    val_loss: 5.7679 - val_mean_absolute_error: 1.7478
1403 Epoch 664/800
1404 - 0s - loss: 3.0069 - mean_absolute_error: 1.2685 -
    val_loss: 5.3210 - val_mean_absolute_error: 1.6421
1405 Epoch 665/800
1406 - 0s - loss: 2.8685 - mean_absolute_error: 1.2401 -
    val_loss: 5.5857 - val_mean_absolute_error: 1.6831
1407 Epoch 666/800
1408 - 0s - loss: 2.9084 - mean_absolute_error: 1.2475 -
    val_loss: 5.9369 - val_mean_absolute_error: 1.7720
1409 Epoch 667/800
1410 - 0s - loss: 2.9594 - mean_absolute_error: 1.2587 -
    val_loss: 5.2266 - val_mean_absolute_error: 1.6291
1411 Epoch 668/800
1412 - 0s - loss: 2.9797 - mean_absolute_error: 1.2575 -
    val_loss: 5.6204 - val_mean_absolute_error: 1.7147
1413 Epoch 669/800
1414 - 0s - loss: 3.0323 - mean_absolute_error: 1.2705 -
    val_loss: 5.4927 - val_mean_absolute_error: 1.6438
1415 Epoch 670/800
1416 - 0s - loss: 2.9280 - mean_absolute_error: 1.2517 -
    val_loss: 5.2815 - val_mean_absolute_error: 1.6360
1417 Epoch 671/800
1418 - 0s - loss: 2.9490 - mean_absolute_error: 1.2605 -
    val_loss: 5.3012 - val_mean_absolute_error: 1.6351
1419 Epoch 672/800
1420 - 0s - loss: 2.9474 - mean_absolute_error: 1.2550 -
    val_loss: 5.2968 - val_mean_absolute_error: 1.6357
1421 Epoch 673/800
1422 - 0s - loss: 2.9690 - mean_absolute_error: 1.2570 -
    val_loss: 5.4755 - val_mean_absolute_error: 1.6917
1423 Epoch 674/800
1424 - 0s - loss: 2.9522 - mean_absolute_error: 1.2608 -
    val_loss: 5.3738 - val_mean_absolute_error: 1.6568
1425 Epoch 675/800
1426 - 0s - loss: 2.9310 - mean_absolute_error: 1.2490 -
    val_loss: 5.4105 - val_mean_absolute_error: 1.6337
1427 Epoch 676/800
1428 - 0s - loss: 2.8821 - mean_absolute_error: 1.2365 -
    val_loss: 5.5586 - val_mean_absolute_error: 1.6703
1429 Epoch 677/800
1430 - 0s - loss: 2.9487 - mean_absolute_error: 1.2589 -
    val_loss: 5.3610 - val_mean_absolute_error: 1.6333
1431 Epoch 678/800
```

```
1432 - 0s - loss: 2.8779 - mean_absolute_error: 1.2449 -
      val_loss: 5.6511 - val_mean_absolute_error: 1.6784
1433 Epoch 679/800
1434 - 0s - loss: 3.0390 - mean_absolute_error: 1.2767 -
      val_loss: 5.3623 - val_mean_absolute_error: 1.6306
1435 Epoch 680/800
1436 - 0s - loss: 2.9674 - mean_absolute_error: 1.2615 -
      val_loss: 5.4872 - val_mean_absolute_error: 1.6618
1437 Epoch 681/800
1438 - 0s - loss: 2.9799 - mean_absolute_error: 1.2645 -
      val_loss: 5.4172 - val_mean_absolute_error: 1.6492
1439 Epoch 682/800
1440 - 0s - loss: 2.8678 - mean_absolute_error: 1.2435 -
      val_loss: 5.4346 - val_mean_absolute_error: 1.6556
1441 Epoch 683/800
1442 - 0s - loss: 2.9596 - mean_absolute_error: 1.2617 -
      val_loss: 5.9606 - val_mean_absolute_error: 1.7962
1443 Epoch 684/800
1444 - 0s - loss: 2.9372 - mean_absolute_error: 1.2676 -
      val_loss: 5.2384 - val_mean_absolute_error: 1.6161
1445 Epoch 685/800
1446 - 0s - loss: 2.9552 - mean_absolute_error: 1.2672 -
      val_loss: 5.4675 - val_mean_absolute_error: 1.6293
1447 Epoch 686/800
1448 - 0s - loss: 2.9764 - mean_absolute_error: 1.2576 -
      val_loss: 5.2497 - val_mean_absolute_error: 1.6430
1449 Epoch 687/800
1450 - 0s - loss: 2.9118 - mean_absolute_error: 1.2477 -
      val_loss: 5.3306 - val_mean_absolute_error: 1.6496
1451 Epoch 688/800
1452 - 0s - loss: 2.8974 - mean_absolute_error: 1.2525 -
      val_loss: 5.4402 - val_mean_absolute_error: 1.6627
1453 Epoch 689/800
1454 - 0s - loss: 2.9600 - mean_absolute_error: 1.2612 -
      val_loss: 5.5960 - val_mean_absolute_error: 1.6695
1455 Epoch 690/800
1456 - 0s - loss: 2.9607 - mean_absolute_error: 1.2632 -
      val_loss: 5.4974 - val_mean_absolute_error: 1.6588
1457 Epoch 691/800
1458 - 0s - loss: 2.8886 - mean_absolute_error: 1.2462 -
      val_loss: 5.3139 - val_mean_absolute_error: 1.6360
1459 Epoch 692/800
1460 - 0s - loss: 2.9277 - mean_absolute_error: 1.2493 -
      val_loss: 5.5154 - val_mean_absolute_error: 1.7143
1461 Epoch 693/800
1462 - 0s - loss: 2.8713 - mean_absolute_error: 1.2342 -
      val_loss: 5.4445 - val_mean_absolute_error: 1.6454
1463 Epoch 694/800
1464 - 0s - loss: 2.8767 - mean_absolute_error: 1.2427 -
      val_loss: 5.2547 - val_mean_absolute_error: 1.6347
```

```
1465 Epoch 695/800
1466   - 0s - loss: 2.8725 - mean_absolute_error: 1.2442 -
      val_loss: 5.6828 - val_mean_absolute_error: 1.6695
1467 Epoch 696/800
1468   - 0s - loss: 2.8575 - mean_absolute_error: 1.2323 -
      val_loss: 5.3220 - val_mean_absolute_error: 1.6280
1469 Epoch 697/800
1470   - 0s - loss: 2.8333 - mean_absolute_error: 1.2240 -
      val_loss: 5.6333 - val_mean_absolute_error: 1.6754
1471 Epoch 698/800
1472   - 0s - loss: 2.7801 - mean_absolute_error: 1.2215 -
      val_loss: 5.6921 - val_mean_absolute_error: 1.7469
1473 Epoch 699/800
1474   - 0s - loss: 2.9731 - mean_absolute_error: 1.2612 -
      val_loss: 5.5566 - val_mean_absolute_error: 1.6901
1475 Epoch 700/800
1476   - 0s - loss: 2.9075 - mean_absolute_error: 1.2446 -
      val_loss: 5.5612 - val_mean_absolute_error: 1.6360
1477 Epoch 701/800
1478   - 0s - loss: 2.9446 - mean_absolute_error: 1.2575 -
      val_loss: 5.6601 - val_mean_absolute_error: 1.6737
1479 Epoch 702/800
1480   - 0s - loss: 2.8741 - mean_absolute_error: 1.2281 -
      val_loss: 5.7515 - val_mean_absolute_error: 1.6751
1481 Epoch 703/800
1482   - 0s - loss: 2.8873 - mean_absolute_error: 1.2411 -
      val_loss: 5.4276 - val_mean_absolute_error: 1.6419
1483 Epoch 704/800
1484   - 0s - loss: 2.8178 - mean_absolute_error: 1.2247 -
      val_loss: 5.5283 - val_mean_absolute_error: 1.6650
1485 Epoch 705/800
1486   - 0s - loss: 2.8570 - mean_absolute_error: 1.2486 -
      val_loss: 5.6449 - val_mean_absolute_error: 1.6728
1487 Epoch 706/800
1488   - 0s - loss: 2.9125 - mean_absolute_error: 1.2415 -
      val_loss: 5.7328 - val_mean_absolute_error: 1.6879
1489 Epoch 707/800
1490   - 0s - loss: 2.8632 - mean_absolute_error: 1.2437 -
      val_loss: 5.5355 - val_mean_absolute_error: 1.6683
1491 Epoch 708/800
1492   - 0s - loss: 2.8359 - mean_absolute_error: 1.2250 -
      val_loss: 5.6460 - val_mean_absolute_error: 1.6768
1493 Epoch 709/800
1494   - 0s - loss: 2.8525 - mean_absolute_error: 1.2390 -
      val_loss: 5.5568 - val_mean_absolute_error: 1.6647
1495 Epoch 710/800
1496   - 0s - loss: 2.8478 - mean_absolute_error: 1.2340 -
      val_loss: 5.8587 - val_mean_absolute_error: 1.7308
1497 Epoch 711/800
1498   - 0s - loss: 2.8859 - mean_absolute_error: 1.2425 -
```

```
1498 val_loss: 5.4669 - val_mean_absolute_error: 1.6686
1499 Epoch 712/800
1500 - 0s - loss: 2.8750 - mean_absolute_error: 1.2469 -
    val_loss: 5.9615 - val_mean_absolute_error: 1.7313
1501 Epoch 713/800
1502 - 0s - loss: 2.8285 - mean_absolute_error: 1.2369 -
    val_loss: 5.4409 - val_mean_absolute_error: 1.6710
1503 Epoch 714/800
1504 - 0s - loss: 2.8853 - mean_absolute_error: 1.2327 -
    val_loss: 5.4325 - val_mean_absolute_error: 1.6684
1505 Epoch 715/800
1506 - 0s - loss: 2.8034 - mean_absolute_error: 1.2272 -
    val_loss: 5.5918 - val_mean_absolute_error: 1.6769
1507 Epoch 716/800
1508 - 0s - loss: 2.8776 - mean_absolute_error: 1.2493 -
    val_loss: 6.3599 - val_mean_absolute_error: 1.7794
1509 Epoch 717/800
1510 - 0s - loss: 2.7888 - mean_absolute_error: 1.2302 -
    val_loss: 5.5812 - val_mean_absolute_error: 1.6773
1511 Epoch 718/800
1512 - 0s - loss: 2.9080 - mean_absolute_error: 1.2478 -
    val_loss: 5.5792 - val_mean_absolute_error: 1.6493
1513 Epoch 719/800
1514 - 0s - loss: 2.8800 - mean_absolute_error: 1.2400 -
    val_loss: 5.5177 - val_mean_absolute_error: 1.6402
1515 Epoch 720/800
1516 - 0s - loss: 2.8834 - mean_absolute_error: 1.2461 -
    val_loss: 5.7561 - val_mean_absolute_error: 1.7164
1517 Epoch 721/800
1518 - 0s - loss: 2.8027 - mean_absolute_error: 1.2251 -
    val_loss: 5.6522 - val_mean_absolute_error: 1.7069
1519 Epoch 722/800
1520 - 0s - loss: 2.9287 - mean_absolute_error: 1.2450 -
    val_loss: 5.5194 - val_mean_absolute_error: 1.6680
1521 Epoch 723/800
1522 - 0s - loss: 2.7986 - mean_absolute_error: 1.2245 -
    val_loss: 5.3919 - val_mean_absolute_error: 1.6736
1523 Epoch 724/800
1524 - 0s - loss: 2.8969 - mean_absolute_error: 1.2524 -
    val_loss: 5.3492 - val_mean_absolute_error: 1.6554
1525 Epoch 725/800
1526 - 0s - loss: 2.9286 - mean_absolute_error: 1.2567 -
    val_loss: 5.6061 - val_mean_absolute_error: 1.6774
1527 Epoch 726/800
1528 - 0s - loss: 2.9304 - mean_absolute_error: 1.2487 -
    val_loss: 5.6601 - val_mean_absolute_error: 1.6859
1529 Epoch 727/800
1530 - 0s - loss: 2.7622 - mean_absolute_error: 1.2151 -
    val_loss: 5.3596 - val_mean_absolute_error: 1.6487
1531 Epoch 728/800
```

```
1532 - 0s - loss: 2.8459 - mean_absolute_error: 1.2242 -
      val_loss: 5.4946 - val_mean_absolute_error: 1.6543
1533 Epoch 729/800
1534 - 0s - loss: 2.8776 - mean_absolute_error: 1.2405 -
      val_loss: 5.2369 - val_mean_absolute_error: 1.6337
1535 Epoch 730/800
1536 - 0s - loss: 2.8515 - mean_absolute_error: 1.2326 -
      val_loss: 5.8596 - val_mean_absolute_error: 1.7559
1537 Epoch 731/800
1538 - 0s - loss: 2.8216 - mean_absolute_error: 1.2256 -
      val_loss: 5.5033 - val_mean_absolute_error: 1.6518
1539 Epoch 732/800
1540 - 0s - loss: 2.7702 - mean_absolute_error: 1.2194 -
      val_loss: 5.8789 - val_mean_absolute_error: 1.6879
1541 Epoch 733/800
1542 - 0s - loss: 2.8271 - mean_absolute_error: 1.2288 -
      val_loss: 5.5578 - val_mean_absolute_error: 1.6614
1543 Epoch 734/800
1544 - 0s - loss: 2.8244 - mean_absolute_error: 1.2289 -
      val_loss: 5.4503 - val_mean_absolute_error: 1.6469
1545 Epoch 735/800
1546 - 0s - loss: 2.9461 - mean_absolute_error: 1.2520 -
      val_loss: 5.4032 - val_mean_absolute_error: 1.6430
1547 Epoch 736/800
1548 - 0s - loss: 2.8630 - mean_absolute_error: 1.2454 -
      val_loss: 5.5618 - val_mean_absolute_error: 1.6462
1549 Epoch 737/800
1550 - 0s - loss: 2.8881 - mean_absolute_error: 1.2433 -
      val_loss: 5.5287 - val_mean_absolute_error: 1.6547
1551 Epoch 738/800
1552 - 0s - loss: 2.7577 - mean_absolute_error: 1.2139 -
      val_loss: 5.4408 - val_mean_absolute_error: 1.6872
1553 Epoch 739/800
1554 - 0s - loss: 2.8199 - mean_absolute_error: 1.2290 -
      val_loss: 5.8426 - val_mean_absolute_error: 1.7109
1555 Epoch 740/800
1556 - 0s - loss: 2.8261 - mean_absolute_error: 1.2360 -
      val_loss: 5.4690 - val_mean_absolute_error: 1.6870
1557 Epoch 741/800
1558 - 0s - loss: 2.8381 - mean_absolute_error: 1.2329 -
      val_loss: 5.7614 - val_mean_absolute_error: 1.7204
1559 Epoch 742/800
1560 - 0s - loss: 2.7851 - mean_absolute_error: 1.2245 -
      val_loss: 5.6991 - val_mean_absolute_error: 1.6695
1561 Epoch 743/800
1562 - 0s - loss: 2.8614 - mean_absolute_error: 1.2429 -
      val_loss: 5.4242 - val_mean_absolute_error: 1.6548
1563 Epoch 744/800
1564 - 0s - loss: 2.9037 - mean_absolute_error: 1.2506 -
      val_loss: 5.5986 - val_mean_absolute_error: 1.6868
```

```
1565 Epoch 745/800
1566   - 0s - loss: 2.8237 - mean_absolute_error: 1.2312 -
      val_loss: 6.1166 - val_mean_absolute_error: 1.7370
1567 Epoch 746/800
1568   - 0s - loss: 2.8422 - mean_absolute_error: 1.2267 -
      val_loss: 5.3942 - val_mean_absolute_error: 1.6562
1569 Epoch 747/800
1570   - 0s - loss: 2.7789 - mean_absolute_error: 1.2233 -
      val_loss: 5.6444 - val_mean_absolute_error: 1.6620
1571 Epoch 748/800
1572   - 0s - loss: 2.8721 - mean_absolute_error: 1.2253 -
      val_loss: 5.7302 - val_mean_absolute_error: 1.6703
1573 Epoch 749/800
1574   - 0s - loss: 2.7723 - mean_absolute_error: 1.2218 -
      val_loss: 5.7463 - val_mean_absolute_error: 1.6954
1575 Epoch 750/800
1576   - 0s - loss: 2.8348 - mean_absolute_error: 1.2199 -
      val_loss: 5.2376 - val_mean_absolute_error: 1.6177
1577 Epoch 751/800
1578   - 0s - loss: 2.8552 - mean_absolute_error: 1.2304 -
      val_loss: 5.2691 - val_mean_absolute_error: 1.6456
1579 Epoch 752/800
1580   - 0s - loss: 2.8216 - mean_absolute_error: 1.2324 -
      val_loss: 5.5714 - val_mean_absolute_error: 1.6572
1581 Epoch 753/800
1582   - 0s - loss: 2.9373 - mean_absolute_error: 1.2547 -
      val_loss: 5.5820 - val_mean_absolute_error: 1.6616
1583 Epoch 754/800
1584   - 0s - loss: 2.8266 - mean_absolute_error: 1.2232 -
      val_loss: 5.5196 - val_mean_absolute_error: 1.6621
1585 Epoch 755/800
1586   - 0s - loss: 2.8043 - mean_absolute_error: 1.2252 -
      val_loss: 5.8341 - val_mean_absolute_error: 1.6938
1587 Epoch 756/800
1588   - 0s - loss: 2.8667 - mean_absolute_error: 1.2363 -
      val_loss: 5.5784 - val_mean_absolute_error: 1.6661
1589 Epoch 757/800
1590   - 0s - loss: 2.8627 - mean_absolute_error: 1.2350 -
      val_loss: 5.5312 - val_mean_absolute_error: 1.7022
1591 Epoch 758/800
1592   - 0s - loss: 2.8513 - mean_absolute_error: 1.2343 -
      val_loss: 5.4355 - val_mean_absolute_error: 1.6660
1593 Epoch 759/800
1594   - 0s - loss: 2.8287 - mean_absolute_error: 1.2273 -
      val_loss: 5.5948 - val_mean_absolute_error: 1.6835
1595 Epoch 760/800
1596   - 0s - loss: 2.8227 - mean_absolute_error: 1.2304 -
      val_loss: 5.6220 - val_mean_absolute_error: 1.6695
1597 Epoch 761/800
1598   - 0s - loss: 2.8699 - mean_absolute_error: 1.2405 -
```

```
1598 val_loss: 5.5806 - val_mean_absolute_error: 1.6899
1599 Epoch 762/800
1600 - 0s - loss: 2.7253 - mean_absolute_error: 1.2115 -
    val_loss: 5.6279 - val_mean_absolute_error: 1.6702
1601 Epoch 763/800
1602 - 0s - loss: 2.7062 - mean_absolute_error: 1.2094 -
    val_loss: 5.5259 - val_mean_absolute_error: 1.6662
1603 Epoch 764/800
1604 - 0s - loss: 2.8460 - mean_absolute_error: 1.2379 -
    val_loss: 5.8037 - val_mean_absolute_error: 1.6864
1605 Epoch 765/800
1606 - 0s - loss: 2.7879 - mean_absolute_error: 1.2196 -
    val_loss: 6.0848 - val_mean_absolute_error: 1.8103
1607 Epoch 766/800
1608 - 0s - loss: 2.8672 - mean_absolute_error: 1.2361 -
    val_loss: 5.5166 - val_mean_absolute_error: 1.6748
1609 Epoch 767/800
1610 - 0s - loss: 2.7756 - mean_absolute_error: 1.2238 -
    val_loss: 5.7978 - val_mean_absolute_error: 1.7160
1611 Epoch 768/800
1612 - 0s - loss: 2.7537 - mean_absolute_error: 1.2204 -
    val_loss: 5.6654 - val_mean_absolute_error: 1.6968
1613 Epoch 769/800
1614 - 0s - loss: 2.8092 - mean_absolute_error: 1.2170 -
    val_loss: 5.7594 - val_mean_absolute_error: 1.7133
1615 Epoch 770/800
1616 - 0s - loss: 2.8051 - mean_absolute_error: 1.2344 -
    val_loss: 5.5343 - val_mean_absolute_error: 1.6739
1617 Epoch 771/800
1618 - 0s - loss: 2.7516 - mean_absolute_error: 1.2111 -
    val_loss: 5.7931 - val_mean_absolute_error: 1.6999
1619 Epoch 772/800
1620 - 0s - loss: 2.8059 - mean_absolute_error: 1.2305 -
    val_loss: 5.7341 - val_mean_absolute_error: 1.6760
1621 Epoch 773/800
1622 - 0s - loss: 2.7823 - mean_absolute_error: 1.2231 -
    val_loss: 5.8310 - val_mean_absolute_error: 1.7741
1623 Epoch 774/800
1624 - 0s - loss: 2.8424 - mean_absolute_error: 1.2274 -
    val_loss: 5.3587 - val_mean_absolute_error: 1.6212
1625 Epoch 775/800
1626 - 0s - loss: 2.8063 - mean_absolute_error: 1.2217 -
    val_loss: 5.5415 - val_mean_absolute_error: 1.6585
1627 Epoch 776/800
1628 - 0s - loss: 2.8562 - mean_absolute_error: 1.2371 -
    val_loss: 5.6450 - val_mean_absolute_error: 1.6789
1629 Epoch 777/800
1630 - 0s - loss: 2.7331 - mean_absolute_error: 1.2058 -
    val_loss: 5.7226 - val_mean_absolute_error: 1.7229
1631 Epoch 778/800
```

```
1632 - 0s - loss: 2.8050 - mean_absolute_error: 1.2314 -
      val_loss: 5.6610 - val_mean_absolute_error: 1.6823
1633 Epoch 779/800
1634 - 0s - loss: 2.7735 - mean_absolute_error: 1.2140 -
      val_loss: 5.4068 - val_mean_absolute_error: 1.6589
1635 Epoch 780/800
1636 - 0s - loss: 2.7248 - mean_absolute_error: 1.2108 -
      val_loss: 5.5829 - val_mean_absolute_error: 1.6578
1637 Epoch 781/800
1638 - 0s - loss: 2.7625 - mean_absolute_error: 1.2200 -
      val_loss: 5.7151 - val_mean_absolute_error: 1.6881
1639 Epoch 782/800
1640 - 0s - loss: 2.8011 - mean_absolute_error: 1.2266 -
      val_loss: 5.6462 - val_mean_absolute_error: 1.6832
1641 Epoch 783/800
1642 - 0s - loss: 2.8675 - mean_absolute_error: 1.2436 -
      val_loss: 5.3032 - val_mean_absolute_error: 1.6241
1643 Epoch 784/800
1644 - 0s - loss: 2.7039 - mean_absolute_error: 1.2123 -
      val_loss: 5.4602 - val_mean_absolute_error: 1.6446
1645 Epoch 785/800
1646 - 0s - loss: 2.7364 - mean_absolute_error: 1.2117 -
      val_loss: 5.5224 - val_mean_absolute_error: 1.6560
1647 Epoch 786/800
1648 - 0s - loss: 2.7006 - mean_absolute_error: 1.2084 -
      val_loss: 5.7070 - val_mean_absolute_error: 1.6946
1649 Epoch 787/800
1650 - 0s - loss: 2.7976 - mean_absolute_error: 1.2299 -
      val_loss: 5.7175 - val_mean_absolute_error: 1.6603
1651 Epoch 788/800
1652 - 0s - loss: 2.7409 - mean_absolute_error: 1.2125 -
      val_loss: 5.8312 - val_mean_absolute_error: 1.6780
1653 Epoch 789/800
1654 - 0s - loss: 2.9448 - mean_absolute_error: 1.2502 -
      val_loss: 5.5535 - val_mean_absolute_error: 1.6552
1655 Epoch 790/800
1656 - 0s - loss: 2.6182 - mean_absolute_error: 1.1882 -
      val_loss: 5.8519 - val_mean_absolute_error: 1.7417
1657 Epoch 791/800
1658 - 0s - loss: 2.6851 - mean_absolute_error: 1.2065 -
      val_loss: 5.6620 - val_mean_absolute_error: 1.6669
1659 Epoch 792/800
1660 - 0s - loss: 2.7317 - mean_absolute_error: 1.2092 -
      val_loss: 5.7259 - val_mean_absolute_error: 1.7059
1661 Epoch 793/800
1662 - 0s - loss: 2.7374 - mean_absolute_error: 1.2184 -
      val_loss: 5.7032 - val_mean_absolute_error: 1.7491
1663 Epoch 794/800
1664 - 0s - loss: 2.8193 - mean_absolute_error: 1.2237 -
      val_loss: 5.4726 - val_mean_absolute_error: 1.6461
```

```
1665 Epoch 795/800
1666   - 0s - loss: 2.6961 - mean_absolute_error: 1.2082 -
      val_loss: 5.6475 - val_mean_absolute_error: 1.6835
1667 Epoch 796/800
1668   - 0s - loss: 2.6956 - mean_absolute_error: 1.2000 -
      val_loss: 5.5956 - val_mean_absolute_error: 1.7242
1669 Epoch 797/800
1670   - 0s - loss: 2.7941 - mean_absolute_error: 1.2223 -
      val_loss: 5.6787 - val_mean_absolute_error: 1.6657
1671 Epoch 798/800
1672   - 0s - loss: 2.7072 - mean_absolute_error: 1.2112 -
      val_loss: 5.6198 - val_mean_absolute_error: 1.6905
1673 Epoch 799/800
1674   - 0s - loss: 2.7921 - mean_absolute_error: 1.2245 -
      val_loss: 5.4492 - val_mean_absolute_error: 1.6506
1675 Epoch 800/800
1676   - 0s - loss: 2.7217 - mean_absolute_error: 1.2088 -
      val_loss: 5.8273 - val_mean_absolute_error: 1.7163
1677 Train MAE: 1.164 , Train Loss: 2.508
1678 Val MAE: 1.7163 , Val Loss: 5.8273
1679 /Users/snehamishra/Desktop/UMKC/Fall2018/Python/Python-
      DeepLearning_Fall2018/Mod2_Lab1/Source/
      DeepLearning_Lesson2
1680
1681 Process finished with exit code 0
1682
```