2021-11-16 14:06:38.571409: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'cudart64\_110.dll'; dlerror: cudart64\_110.dll not found

2021-11-16 14:06:38.571509: I tensorflow/stream\_executor/cuda/cudart\_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

Id MSSubClass MSZoning ... SaleType SaleCondition SalePrice

0 1 60 RL ... WD Normal 208500

1 2 20 RL ... WD Normal 181500

2 3 60 RL ... WD Normal 223500

3 4 70 RL ... WD Abnorml 140000

4 5 60 RL ... WD Normal 250000

[5 rows x 81 columns]

Id MSSubClass MSZoning ... YrSold SaleType SaleCondition

0 1461 20 RH ... 2010 WD Normal

1 1462 20 RL ... 2010 WD Normal

2 1463 60 RL ... 2010 WD Normal

3 1464 60 RL ... 2010 WD Normal

4 1465 120 RL ... 2010 WD Normal

[5 rows x 80 columns]

MSZoning: 4, type: object

LotFrontage: 227, type: float64

Alley: 1352, type: object

Utilities: 2, type: object

Exterior1st: 1, type: object

Exterior2nd: 1, type: object

MasVnrType: 16, type: object

MasVnrArea: 15, type: float64

BsmtQual: 44, type: object

BsmtCond: 45, type: object

BsmtExposure: 44, type: object

BsmtFinType1: 42, type: object

BsmtFinSF1: 1, type: float64

BsmtFinType2: 42, type: object

BsmtFinSF2: 1, type: float64

BsmtUnfSF: 1, type: float64

TotalBsmtSF: 1, type: float64

BsmtFullBath: 2, type: float64

BsmtHalfBath: 2, type: float64

KitchenQual: 1, type: object

Functional: 2, type: object

FireplaceQu: 730, type: object

GarageType: 76, type: object

GarageYrBlt: 78, type: float64

GarageFinish: 78, type: object

GarageCars: 1, type: float64

GarageArea: 1, type: float64

GarageQual: 78, type: object

GarageCond: 78, type: object

PoolQC: 1456, type: object

Fence: 1169, type: object

MiscFeature: 1408, type: object

SaleType: 1, type: object

['MSZoning', 'LotFrontage', 'Alley', 'Utilities', 'Exterior1st', 'Exterior2nd', 'MasVnrType', 'MasVnrArea', 'BsmtQual', 'BsmtCond', 'BsmtExposure', 'BsmtFinType1', 'BsmtFinSF1', 'BsmtFinType2', 'BsmtFinSF2', 'BsmtUnfSF', 'TotalBsmtSF', 'BsmtFullBath', 'BsmtHalfBath', 'KitchenQual', 'Functional', 'FireplaceQu', 'GarageType', 'GarageYrBlt', 'GarageFinish', 'GarageCars', 'GarageArea', 'GarageQual', 'GarageCond', 'PoolQC', 'Fence', 'MiscFeature', 'SaleType']

33

[]

0

[]

0

Here comes the info

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 1459 entries, 0 to 1458

Data columns (total 75 columns):

# Column Non-Null Count Dtype

--- ------ -------------- -----

0 Id 1459 non-null int64

1 MSSubClass 1459 non-null int64

2 MSZoning 1459 non-null int8

3 LotFrontage 1459 non-null float64

4 LotArea 1459 non-null int64

5 Street 1459 non-null int8

6 LotShape 1459 non-null int8

7 LandContour 1459 non-null int8

8 Utilities 1459 non-null int8

9 LotConfig 1459 non-null int8

10 LandSlope 1459 non-null int8

11 Neighborhood 1459 non-null int8

12 Condition1 1459 non-null int8

13 Condition2 1459 non-null int8

14 BldgType 1459 non-null int8

15 HouseStyle 1459 non-null int8

16 OverallQual 1459 non-null int64

17 OverallCond 1459 non-null int64

18 YearBuilt 1459 non-null int64

19 YearRemodAdd 1459 non-null int64

20 RoofStyle 1459 non-null int8

21 RoofMatl 1459 non-null int8

22 Exterior1st 1459 non-null int8

23 Exterior2nd 1459 non-null int8

24 MasVnrType 1459 non-null int8

25 MasVnrArea 1459 non-null float64

26 ExterQual 1459 non-null int8

27 ExterCond 1459 non-null int8

28 Foundation 1459 non-null int8

29 BsmtQual 1459 non-null int8

30 BsmtCond 1459 non-null int8

31 BsmtExposure 1459 non-null int8

32 BsmtFinType1 1459 non-null int8

33 BsmtFinSF1 1459 non-null float64

34 BsmtFinType2 1459 non-null int8

35 BsmtFinSF2 1459 non-null float64

36 BsmtUnfSF 1459 non-null float64

37 TotalBsmtSF 1459 non-null float64

38 Heating 1459 non-null int8

39 HeatingQC 1459 non-null int8

40 CentralAir 1459 non-null int8

41 Electrical 1459 non-null int8

42 1stFlrSF 1459 non-null int64

43 2ndFlrSF 1459 non-null int64

44 LowQualFinSF 1459 non-null int64

45 GrLivArea 1459 non-null int64

46 BsmtFullBath 1459 non-null float64

47 BsmtHalfBath 1459 non-null float64

48 FullBath 1459 non-null int64

49 HalfBath 1459 non-null int64

50 BedroomAbvGr 1459 non-null int64

51 KitchenAbvGr 1459 non-null int64

52 KitchenQual 1459 non-null int8

53 TotRmsAbvGrd 1459 non-null int64

54 Functional 1459 non-null int8

55 Fireplaces 1459 non-null int64

56 GarageType 1459 non-null int8

57 GarageYrBlt 1459 non-null float64

58 GarageFinish 1459 non-null int8

59 GarageCars 1459 non-null float64

60 GarageArea 1459 non-null float64

61 GarageQual 1459 non-null int8

62 GarageCond 1459 non-null int8

63 PavedDrive 1459 non-null int8

64 WoodDeckSF 1459 non-null int64

65 OpenPorchSF 1459 non-null int64

66 EnclosedPorch 1459 non-null int64

67 3SsnPorch 1459 non-null int64

68 ScreenPorch 1459 non-null int64

69 PoolArea 1459 non-null int64

70 MiscVal 1459 non-null int64

71 MoSold 1459 non-null int64

72 YrSold 1459 non-null int64

73 SaleType 1459 non-null int8

74 SaleCondition 1459 non-null int8

dtypes: float64(11), int64(26), int8(38)

memory usage: 476.0 KB

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 1460 entries, 0 to 1459

Data columns (total 76 columns):

# Column Non-Null Count Dtype

--- ------ -------------- -----

0 Id 1460 non-null int64

1 MSSubClass 1460 non-null int64

2 MSZoning 1460 non-null int8

3 LotFrontage 1460 non-null float64

4 LotArea 1460 non-null int64

5 Street 1460 non-null int8

6 LotShape 1460 non-null int8

7 LandContour 1460 non-null int8

8 Utilities 1460 non-null int8

9 LotConfig 1460 non-null int8

10 LandSlope 1460 non-null int8

11 Neighborhood 1460 non-null int8

12 Condition1 1460 non-null int8

13 Condition2 1460 non-null int8

14 BldgType 1460 non-null int8

15 HouseStyle 1460 non-null int8

16 OverallQual 1460 non-null int64

17 OverallCond 1460 non-null int64

18 YearBuilt 1460 non-null int64

19 YearRemodAdd 1460 non-null int64

20 RoofStyle 1460 non-null int8

21 RoofMatl 1460 non-null int8

22 Exterior1st 1460 non-null int8

23 Exterior2nd 1460 non-null int8

24 MasVnrType 1460 non-null int8

25 MasVnrArea 1460 non-null float64

26 ExterQual 1460 non-null int8

27 ExterCond 1460 non-null int8

28 Foundation 1460 non-null int8

29 BsmtQual 1460 non-null int8

30 BsmtCond 1460 non-null int8

31 BsmtExposure 1460 non-null int8

32 BsmtFinType1 1460 non-null int8

33 BsmtFinSF1 1460 non-null int64

34 BsmtFinType2 1460 non-null int8

35 BsmtFinSF2 1460 non-null int64

36 BsmtUnfSF 1460 non-null int64

37 TotalBsmtSF 1460 non-null int64

38 Heating 1460 non-null int8

39 HeatingQC 1460 non-null int8

40 CentralAir 1460 non-null int8

41 Electrical 1460 non-null int8

42 1stFlrSF 1460 non-null int64

43 2ndFlrSF 1460 non-null int64

44 LowQualFinSF 1460 non-null int64

45 GrLivArea 1460 non-null int64

46 BsmtFullBath 1460 non-null int64

47 BsmtHalfBath 1460 non-null int64

48 FullBath 1460 non-null int64

49 HalfBath 1460 non-null int64

50 BedroomAbvGr 1460 non-null int64

51 KitchenAbvGr 1460 non-null int64

52 KitchenQual 1460 non-null int8

53 TotRmsAbvGrd 1460 non-null int64

54 Functional 1460 non-null int8

55 Fireplaces 1460 non-null int64

56 GarageType 1460 non-null int8

57 GarageYrBlt 1460 non-null float64

58 GarageFinish 1460 non-null int8

59 GarageCars 1460 non-null int64

60 GarageArea 1460 non-null int64

61 GarageQual 1460 non-null int8

62 GarageCond 1460 non-null int8

63 PavedDrive 1460 non-null int8

64 WoodDeckSF 1460 non-null int64

65 OpenPorchSF 1460 non-null int64

66 EnclosedPorch 1460 non-null int64

67 3SsnPorch 1460 non-null int64

68 ScreenPorch 1460 non-null int64

69 PoolArea 1460 non-null int64

70 MiscVal 1460 non-null int64

71 MoSold 1460 non-null int64

72 YrSold 1460 non-null int64

73 SaleType 1460 non-null int8

74 SaleCondition 1460 non-null int8

75 SalePrice 1460 non-null int64

dtypes: float64(3), int64(35), int8(38)

memory usage: 487.7 KB

2021-11-16 14:06:41.039757: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'cudart64\_110.dll'; dlerror: cudart64\_110.dll not found

2021-11-16 14:06:41.040199: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'cublas64\_11.dll'; dlerror: cublas64\_11.dll not found

2021-11-16 14:06:41.040623: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'cublasLt64\_11.dll'; dlerror: cublasLt64\_11.dll not found

2021-11-16 14:06:41.041045: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'cufft64\_10.dll'; dlerror: cufft64\_10.dll not found

2021-11-16 14:06:41.041464: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'curand64\_10.dll'; dlerror: curand64\_10.dll not found

2021-11-16 14:06:41.041890: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'cusolver64\_11.dll'; dlerror: cusolver64\_11.dll not found

2021-11-16 14:06:41.042303: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'cusparse64\_11.dll'; dlerror: cusparse64\_11.dll not found

2021-11-16 14:06:41.042712: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'cudnn64\_8.dll'; dlerror: cudnn64\_8.dll not found

2021-11-16 14:06:41.042794: W tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1850] Cannot dlopen some GPU libraries. Please make sure the missing libraries mentioned above are installed properly if you would like to use GPU. Follow the guide at https://www.tensorflow.org/install/gpu for how to download and setup the required libraries for your platform.

Skipping registering GPU devices...

2021-11-16 14:06:41.043189: I tensorflow/core/platform/cpu\_feature\_guard.cc:151] This TensorFlow binary is optimized with oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-critical operations: AVX AVX2

To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.

Model: "sequential"

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Layer (type) Output Shape Param #

=================================================================

dense (Dense) (None, 1000) 76000

dense\_1 (Dense) (None, 1000) 1001000

dense\_2 (Dense) (None, 1000) 1001000

dense\_3 (Dense) (None, 1000) 1001000

dense\_4 (Dense) (None, 1000) 1001000

dense\_5 (Dense) (None, 1000) 1001000

dense\_6 (Dense) (None, 1000) 1001000

dense\_7 (Dense) (None, 1000) 1001000

dense\_8 (Dense) (None, 1000) 1001000

dense\_9 (Dense) (None, 1000) 1001000

=================================================================

Total params: 9,085,000

Trainable params: 9,085,000

Non-trainable params: 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Epoch 1/1000

37/37 [==============================] - 4s 78ms/step - loss: 29.7426 - mae: 100440.5859

Epoch 2/1000

37/37 [==============================] - 3s 85ms/step - loss: 25.4923 - mae: 135884.6406

Epoch 3/1000

37/37 [==============================] - 3s 77ms/step - loss: 21.8998 - mae: 105063.8281

Epoch 4/1000

37/37 [==============================] - 3s 78ms/step - loss: 20.9946 - mae: 103915.2656

Epoch 5/1000

37/37 [==============================] - 3s 78ms/step - loss: 18.0587 - mae: 84245.6719

Epoch 6/1000

37/37 [==============================] - 3s 78ms/step - loss: 15.9577 - mae: 77578.2500

Epoch 7/1000

37/37 [==============================] - 3s 78ms/step - loss: 15.9940 - mae: 86438.0312

Epoch 8/1000

37/37 [==============================] - 3s 78ms/step - loss: 15.9916 - mae: 86507.4062

Epoch 9/1000

37/37 [==============================] - 3s 79ms/step - loss: 14.4516 - mae: 78483.2266

Epoch 10/1000

37/37 [==============================] - 3s 91ms/step - loss: 13.4949 - mae: 76583.3516

Epoch 11/1000

37/37 [==============================] - 4s 96ms/step - loss: 11.1690 - mae: 68067.2578

Epoch 12/1000

37/37 [==============================] - 3s 89ms/step - loss: 10.9949 - mae: 63603.7539

Epoch 13/1000

37/37 [==============================] - 4s 114ms/step - loss: 11.0123 - mae: 68250.4766

Epoch 14/1000

37/37 [==============================] - 4s 97ms/step - loss: 10.9939 - mae: 65347.0742

Epoch 15/1000

37/37 [==============================] - 3s 79ms/step - loss: 11.0071 - mae: 68272.2031

Epoch 16/1000

37/37 [==============================] - 3s 79ms/step - loss: 11.0014 - mae: 68019.6719

Epoch 17/1000

37/37 [==============================] - 3s 81ms/step - loss: 10.9782 - mae: 62878.8633

Epoch 18/1000

37/37 [==============================] - 3s 85ms/step - loss: 10.9829 - mae: 60680.1172

Epoch 19/1000

37/37 [==============================] - 3s 79ms/step - loss: 10.3645 - mae: 62304.0547

Epoch 20/1000

37/37 [==============================] - 3s 79ms/step - loss: 10.2499 - mae: 59757.0820

Epoch 21/1000

37/37 [==============================] - 3s 78ms/step - loss: 10.2262 - mae: 55850.4609

Epoch 22/1000

37/37 [==============================] - 3s 82ms/step - loss: 9.9538 - mae: 57686.1914

Epoch 23/1000

37/37 [==============================] - 3s 82ms/step - loss: 9.9518 - mae: 56093.2539

Epoch 24/1000

37/37 [==============================] - 3s 78ms/step - loss: 9.9530 - mae: 56761.6211

Epoch 25/1000

37/37 [==============================] - 3s 78ms/step - loss: 9.9362 - mae: 53439.4961

Epoch 26/1000

37/37 [==============================] - 3s 79ms/step - loss: 9.9506 - mae: 56751.0703

Epoch 27/1000

37/37 [==============================] - 3s 78ms/step - loss: 9.9391 - mae: 53861.1406

Epoch 28/1000

37/37 [==============================] - 3s 79ms/step - loss: 9.8714 - mae: 51405.7500

Epoch 29/1000

37/37 [==============================] - 3s 78ms/step - loss: 9.7839 - mae: 50985.5000

Epoch 30/1000

37/37 [==============================] - 3s 79ms/step - loss: 9.7976 - mae: 55679.2617

Epoch 31/1000

37/37 [==============================] - 3s 78ms/step - loss: 9.7813 - mae: 49743.9766

Epoch 32/1000

37/37 [==============================] - 3s 79ms/step - loss: 9.7854 - mae: 51505.7930

Epoch 33/1000

37/37 [==============================] - 3s 79ms/step - loss: 9.7927 - mae: 54102.8164

Epoch 34/1000

37/37 [==============================] - 3s 79ms/step - loss: 9.7829 - mae: 49686.3008

Epoch 35/1000

37/37 [==============================] - 3s 78ms/step - loss: 9.7868 - mae: 51372.4570

Epoch 36/1000

37/37 [==============================] - 3s 78ms/step - loss: 9.7868 - mae: 50433.1680

Epoch 37/1000

37/37 [==============================] - 3s 78ms/step - loss: 9.7846 - mae: 49687.4609

Epoch 38/1000

37/37 [==============================] - 3s 77ms/step - loss: 9.7761 - mae: 48094.3008

Epoch 39/1000

37/37 [==============================] - 3s 77ms/step - loss: 9.7657 - mae: 49835.5078

Epoch 40/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.7872 - mae: 43612.9844

Epoch 41/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.3182 - mae: 46690.3359

Epoch 42/1000

37/37 [==============================] - 3s 79ms/step - loss: 7.3140 - mae: 45989.9727

Epoch 43/1000

37/37 [==============================] - 3s 79ms/step - loss: 7.3183 - mae: 47776.1016

Epoch 44/1000

37/37 [==============================] - 3s 79ms/step - loss: 7.2690 - mae: 44509.5078

Epoch 45/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.1681 - mae: 45337.8398

Epoch 46/1000

37/37 [==============================] - 3s 79ms/step - loss: 7.1715 - mae: 46818.3555

Epoch 47/1000

37/37 [==============================] - 3s 79ms/step - loss: 7.1685 - mae: 45126.8438

Epoch 48/1000

37/37 [==============================] - 3s 79ms/step - loss: 7.1695 - mae: 45471.4453

Epoch 49/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.1659 - mae: 45201.3398

Epoch 50/1000

37/37 [==============================] - 3s 77ms/step - loss: 7.1651 - mae: 44860.0586

Epoch 51/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.1628 - mae: 43378.4883

Epoch 52/1000

37/37 [==============================] - 3s 77ms/step - loss: 7.0372 - mae: 43886.1523

Epoch 53/1000

37/37 [==============================] - 3s 79ms/step - loss: 7.0185 - mae: 44310.6602

Epoch 54/1000

37/37 [==============================] - 3s 79ms/step - loss: 7.0174 - mae: 44423.5273

Epoch 55/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0226 - mae: 44679.3906

Epoch 56/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0164 - mae: 42473.0156

Epoch 57/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0136 - mae: 42592.7891

Epoch 58/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0105 - mae: 41008.9297

Epoch 59/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0144 - mae: 41774.6523

Epoch 60/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0175 - mae: 42939.1758

Epoch 61/1000

37/37 [==============================] - 3s 79ms/step - loss: 7.0193 - mae: 44310.2656

Epoch 62/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0134 - mae: 42576.3750

Epoch 63/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0143 - mae: 41945.6914

Epoch 64/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0141 - mae: 42344.5586

Epoch 65/1000

37/37 [==============================] - 3s 79ms/step - loss: 7.0120 - mae: 41271.8789

Epoch 66/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0111 - mae: 41458.8047

Epoch 67/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0131 - mae: 41312.0078

Epoch 68/1000

37/37 [==============================] - 3s 77ms/step - loss: 7.0127 - mae: 41397.9219

Epoch 69/1000

37/37 [==============================] - 3s 77ms/step - loss: 7.0147 - mae: 42792.2969

Epoch 70/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0080 - mae: 40469.2070

Epoch 71/1000

37/37 [==============================] - 3s 77ms/step - loss: 7.0139 - mae: 41672.0156

Epoch 72/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0099 - mae: 40247.2383

Epoch 73/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0170 - mae: 44089.9102

Epoch 74/1000

37/37 [==============================] - 3s 79ms/step - loss: 7.0102 - mae: 40979.0547

Epoch 75/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0126 - mae: 42028.5625

Epoch 76/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0079 - mae: 39368.9219

Epoch 77/1000

37/37 [==============================] - 3s 79ms/step - loss: 7.0122 - mae: 41529.8633

Epoch 78/1000

37/37 [==============================] - 3s 79ms/step - loss: 7.0096 - mae: 40751.2930

Epoch 79/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0122 - mae: 41404.6602

Epoch 80/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0083 - mae: 40488.0859

Epoch 81/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0082 - mae: 39722.4922

Epoch 82/1000

37/37 [==============================] - 3s 78ms/step - loss: 7.0124 - mae: 41809.8008

Epoch 83/1000

37/37 [==============================] - 3s 83ms/step - loss: 6.5530 - mae: 39216.9141

Epoch 84/1000

37/37 [==============================] - 3s 89ms/step - loss: 6.0629 - mae: 40216.6328

Epoch 85/1000

37/37 [==============================] - 4s 99ms/step - loss: 5.7352 - mae: 36359.9102

Epoch 86/1000

37/37 [==============================] - 3s 82ms/step - loss: 5.7047 - mae: 38785.8594

Epoch 87/1000

37/37 [==============================] - 3s 87ms/step - loss: 5.7032 - mae: 38574.8555

Epoch 88/1000

37/37 [==============================] - 3s 93ms/step - loss: 5.7033 - mae: 38885.7930

Epoch 89/1000

37/37 [==============================] - 3s 92ms/step - loss: 5.7054 - mae: 39150.5859

Epoch 90/1000

37/37 [==============================] - 3s 89ms/step - loss: 5.7030 - mae: 38445.1680

Epoch 91/1000

37/37 [==============================] - 3s 89ms/step - loss: 5.7041 - mae: 39107.3789

Epoch 92/1000

37/37 [==============================] - 3s 84ms/step - loss: 5.7026 - mae: 37672.5781

Epoch 93/1000

37/37 [==============================] - 3s 91ms/step - loss: 5.7064 - mae: 39896.9844

Epoch 94/1000

37/37 [==============================] - 3s 77ms/step - loss: 5.7007 - mae: 37619.4570

Epoch 95/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.7037 - mae: 37851.3906

Epoch 96/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.7025 - mae: 37832.8750

Epoch 97/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4949 - mae: 36352.2344

Epoch 98/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4096 - mae: 37035.0781

Epoch 99/1000

37/37 [==============================] - 3s 77ms/step - loss: 5.4140 - mae: 37532.3516

Epoch 100/1000

37/37 [==============================] - 3s 79ms/step - loss: 5.4106 - mae: 37090.0195

Epoch 101/1000

37/37 [==============================] - 3s 76ms/step - loss: 5.4127 - mae: 38827.7188

Epoch 102/1000

37/37 [==============================] - 3s 80ms/step - loss: 5.4114 - mae: 37999.7227

Epoch 103/1000

37/37 [==============================] - 3s 78ms/step - loss: 5.4144 - mae: 38632.5078

Epoch 104/1000

37/37 [==============================] - 3s 75ms/step - loss: 5.4114 - mae: 37377.1211

Epoch 105/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4060 - mae: 35618.0625

Epoch 106/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.4089 - mae: 36489.2930

Epoch 107/1000

37/37 [==============================] - 3s 78ms/step - loss: 5.4090 - mae: 36595.3438

Epoch 108/1000

37/37 [==============================] - 3s 76ms/step - loss: 5.4113 - mae: 38243.7852

Epoch 109/1000

37/37 [==============================] - 3s 79ms/step - loss: 5.4078 - mae: 36367.1133

Epoch 110/1000

37/37 [==============================] - 3s 77ms/step - loss: 5.4054 - mae: 35344.3047

Epoch 111/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4116 - mae: 37340.7500

Epoch 112/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4080 - mae: 35895.2500

Epoch 113/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.4075 - mae: 36126.7695

Epoch 114/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4114 - mae: 37591.8438

Epoch 115/1000

37/37 [==============================] - 3s 77ms/step - loss: 5.4094 - mae: 36800.3984

Epoch 116/1000

37/37 [==============================] - 3s 79ms/step - loss: 5.4079 - mae: 36287.1523

Epoch 117/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.4079 - mae: 36181.6562

Epoch 118/1000

37/37 [==============================] - 3s 75ms/step - loss: 5.4090 - mae: 36215.6406

Epoch 119/1000

37/37 [==============================] - 3s 76ms/step - loss: 5.4096 - mae: 36455.3945

Epoch 120/1000

37/37 [==============================] - 3s 77ms/step - loss: 5.4069 - mae: 35492.8398

Epoch 121/1000

37/37 [==============================] - 3s 77ms/step - loss: 5.4044 - mae: 35141.5547

Epoch 122/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4084 - mae: 36568.7734

Epoch 123/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.4091 - mae: 36143.4023

Epoch 124/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.4058 - mae: 35288.7461

Epoch 125/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4085 - mae: 36534.3086

Epoch 126/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4042 - mae: 34705.2344

Epoch 127/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4032 - mae: 34116.4805

Epoch 128/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.4125 - mae: 37450.1797

Epoch 129/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.4051 - mae: 35036.5195

Epoch 130/1000

37/37 [==============================] - 3s 79ms/step - loss: 5.4060 - mae: 35007.9062

Epoch 131/1000

37/37 [==============================] - 3s 76ms/step - loss: 5.4062 - mae: 36048.2344

Epoch 132/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.4041 - mae: 34693.5547

Epoch 133/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.4083 - mae: 36593.6094

Epoch 134/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4057 - mae: 35660.5664

Epoch 135/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4068 - mae: 35529.0156

Epoch 136/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4004 - mae: 32892.7539

Epoch 137/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.4053 - mae: 34831.7930

Epoch 138/1000

37/37 [==============================] - 3s 75ms/step - loss: 5.4082 - mae: 36387.2500

Epoch 139/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.4028 - mae: 34805.0586

Epoch 140/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4030 - mae: 34875.8164

Epoch 141/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4041 - mae: 35292.0977

Epoch 142/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.4068 - mae: 35764.9961

Epoch 143/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4060 - mae: 36063.2070

Epoch 144/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.4002 - mae: 33664.0000

Epoch 145/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4021 - mae: 34669.7656

Epoch 146/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4053 - mae: 36240.3516

Epoch 147/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.3998 - mae: 33369.6914

Epoch 148/1000

37/37 [==============================] - 3s 79ms/step - loss: 5.4075 - mae: 36079.0312

Epoch 149/1000

37/37 [==============================] - 3s 75ms/step - loss: 5.4010 - mae: 32873.4180

Epoch 150/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.3995 - mae: 33700.9062

Epoch 151/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4019 - mae: 34274.8242

Epoch 152/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4033 - mae: 34729.8945

Epoch 153/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4014 - mae: 34109.2031

Epoch 154/1000

24/37 [==================>...........] - ETA: 0s - loss: 5.4142 - mae: 35914.3828

37/37 [==============================] - 3s 74ms/step - loss: 5.4029 - mae: 34791.6914

Epoch 155/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4018 - mae: 34461.6758

Epoch 156/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4042 - mae: 35159.0547

Epoch 157/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4002 - mae: 33960.5117

Epoch 158/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4009 - mae: 34191.7852

Epoch 159/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4008 - mae: 34071.1719

Epoch 160/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.3986 - mae: 33102.5781

Epoch 161/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4005 - mae: 33966.6406

Epoch 162/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.4014 - mae: 34488.0703

Epoch 163/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.4012 - mae: 34222.8477

Epoch 164/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.3979 - mae: 33276.7383

Epoch 165/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.3987 - mae: 32753.8496

Epoch 166/1000

37/37 [==============================] - 3s 79ms/step - loss: 5.3983 - mae: 32801.7070

Epoch 167/1000

37/37 [==============================] - 3s 81ms/step - loss: 5.4009 - mae: 33456.2773

Epoch 168/1000

37/37 [==============================] - 3s 80ms/step - loss: 5.3998 - mae: 33815.5469

Epoch 169/1000

37/37 [==============================] - 3s 82ms/step - loss: 5.3983 - mae: 33093.1719

Epoch 170/1000

37/37 [==============================] - 3s 81ms/step - loss: 5.3990 - mae: 33214.9219

Epoch 171/1000

37/37 [==============================] - 3s 76ms/step - loss: 5.3999 - mae: 33424.6211

Epoch 172/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.3986 - mae: 33152.3867

Epoch 173/1000

37/37 [==============================] - 3s 75ms/step - loss: 5.4020 - mae: 34563.6797

Epoch 174/1000

37/37 [==============================] - 3s 74ms/step - loss: 5.3977 - mae: 32495.2637

Epoch 175/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.3963 - mae: 32491.7949

Epoch 176/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.3995 - mae: 33726.8086

Epoch 177/1000

37/37 [==============================] - 3s 75ms/step - loss: 5.2831 - mae: 33048.7461

Epoch 178/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.1147 - mae: 34227.3398

Epoch 179/1000

37/37 [==============================] - 3s 73ms/step - loss: 5.1084 - mae: 32531.2285

Epoch 180/1000

37/37 [==============================] - 3s 73ms/step - loss: 4.8777 - mae: 31901.6914

Epoch 181/1000

37/37 [==============================] - 3s 74ms/step - loss: 4.7537 - mae: 32039.7910

Epoch 182/1000

37/37 [==============================] - 3s 76ms/step - loss: 4.3279 - mae: 31929.7461

Epoch 183/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.5154 - mae: 30648.6230

Epoch 184/1000

37/37 [==============================] - 3s 80ms/step - loss: 3.5155 - mae: 31378.3457

Epoch 185/1000

37/37 [==============================] - 3s 81ms/step - loss: 3.5192 - mae: 32683.6992

Epoch 186/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.5187 - mae: 32543.9629

Epoch 187/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.5188 - mae: 32767.1191

Epoch 188/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.5114 - mae: 29616.7676

Epoch 189/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5169 - mae: 30865.3359

Epoch 190/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5180 - mae: 32212.8262

Epoch 191/1000

37/37 [==============================] - 3s 80ms/step - loss: 3.5157 - mae: 30840.5312

Epoch 192/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.5128 - mae: 30521.8633

Epoch 193/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5132 - mae: 30749.8223

Epoch 194/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.5138 - mae: 30906.1094

Epoch 195/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5112 - mae: 29662.2500

Epoch 196/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5119 - mae: 29772.7402

Epoch 197/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.5126 - mae: 29996.7402

Epoch 198/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.5138 - mae: 30428.0312

Epoch 199/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5135 - mae: 30509.6270

Epoch 200/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5116 - mae: 29757.7129

Epoch 201/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5107 - mae: 28922.6641

Epoch 202/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5105 - mae: 29695.1230

Epoch 203/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5118 - mae: 29891.9238

Epoch 204/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.5124 - mae: 30468.7461

Epoch 205/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.5091 - mae: 28595.0527

Epoch 206/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5131 - mae: 30576.2539

Epoch 207/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.5085 - mae: 28193.0840

Epoch 208/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.5118 - mae: 29577.4766

Epoch 209/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5102 - mae: 28988.1328

Epoch 210/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5123 - mae: 30408.0625

Epoch 211/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5115 - mae: 29817.5449

Epoch 212/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5093 - mae: 28949.5859

Epoch 213/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5109 - mae: 30089.9824

Epoch 214/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5097 - mae: 29410.6543

Epoch 215/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5143 - mae: 30376.7715

Epoch 216/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5093 - mae: 29466.8320

Epoch 217/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5102 - mae: 29172.3730

Epoch 218/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5094 - mae: 28674.0996

Epoch 219/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5112 - mae: 29475.6367

Epoch 220/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5090 - mae: 28602.3652

Epoch 221/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5099 - mae: 29011.1953

Epoch 222/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.5091 - mae: 28739.6465

Epoch 223/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.5069 - mae: 27490.8555

Epoch 224/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5102 - mae: 28989.7227

Epoch 225/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5072 - mae: 28043.3145

Epoch 226/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5079 - mae: 28445.0703

Epoch 227/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5096 - mae: 28850.4512

Epoch 228/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5074 - mae: 28215.9863

Epoch 229/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.5082 - mae: 28714.7129

Epoch 230/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.5093 - mae: 28350.9219

Epoch 231/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5089 - mae: 29128.8223

Epoch 232/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.5071 - mae: 28207.6953

Epoch 233/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.5074 - mae: 28090.0293

Epoch 234/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5083 - mae: 28573.3809

Epoch 235/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5084 - mae: 28650.5898

Epoch 236/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5078 - mae: 28332.0352

Epoch 237/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5057 - mae: 27065.9609

Epoch 238/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5074 - mae: 27866.0820

Epoch 239/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.5080 - mae: 28603.1172

Epoch 240/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5049 - mae: 27092.7285

Epoch 241/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5083 - mae: 28715.5938

Epoch 242/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5085 - mae: 28519.7578

Epoch 243/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5060 - mae: 28041.0625

Epoch 244/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5045 - mae: 26614.8516

Epoch 245/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5056 - mae: 27452.8926

Epoch 246/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5053 - mae: 27271.3223

Epoch 247/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5049 - mae: 27056.1875

Epoch 248/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5071 - mae: 27809.6172

Epoch 249/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5053 - mae: 27414.8965

Epoch 250/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5063 - mae: 28123.6973

Epoch 251/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5087 - mae: 29130.9238

Epoch 252/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5065 - mae: 28330.3594

Epoch 253/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.5046 - mae: 26695.1621

Epoch 254/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.5075 - mae: 28165.2090

Epoch 255/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.5045 - mae: 26662.2988

Epoch 256/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5035 - mae: 26518.6055

Epoch 257/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5073 - mae: 27898.3027

Epoch 258/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5035 - mae: 26866.8301

Epoch 259/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5042 - mae: 26934.7207

Epoch 260/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5058 - mae: 27893.4785

Epoch 261/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5046 - mae: 26725.6738

Epoch 262/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.5048 - mae: 26899.5078

Epoch 263/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5058 - mae: 28324.6270

Epoch 264/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5029 - mae: 26350.6230

Epoch 265/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.5027 - mae: 26279.2168

Epoch 266/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.5037 - mae: 26754.9180

Epoch 267/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5026 - mae: 25726.4180

Epoch 268/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5057 - mae: 27924.5273

Epoch 269/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5027 - mae: 26083.1914

Epoch 270/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5021 - mae: 26452.8184

Epoch 271/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5018 - mae: 26006.4648

Epoch 272/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.5059 - mae: 27906.6816

Epoch 273/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5051 - mae: 27653.0234

Epoch 274/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5026 - mae: 26687.1660

Epoch 275/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.5027 - mae: 26488.1055

Epoch 276/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.5022 - mae: 25628.7539

Epoch 277/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5019 - mae: 26499.3066

Epoch 278/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5017 - mae: 25344.0820

Epoch 279/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5034 - mae: 26870.7832

Epoch 280/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5033 - mae: 27062.3242

Epoch 281/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.5030 - mae: 26130.9199

Epoch 282/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5008 - mae: 25916.6973

Epoch 283/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5014 - mae: 26050.0840

Epoch 284/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5028 - mae: 26160.3555

Epoch 285/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5019 - mae: 25745.3730

Epoch 286/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5031 - mae: 25844.1289

Epoch 287/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5024 - mae: 25922.6777

Epoch 288/1000

37/37 [==============================] - 3s 81ms/step - loss: 3.5006 - mae: 24808.2227

Epoch 289/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.4989 - mae: 24754.7461

Epoch 290/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.5021 - mae: 26294.1562

Epoch 291/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.5027 - mae: 26116.4531

Epoch 292/1000

37/37 [==============================] - 3s 85ms/step - loss: 3.5019 - mae: 26347.0625

Epoch 293/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4990 - mae: 24333.3730

Epoch 294/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.5032 - mae: 27009.2852

Epoch 295/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.5010 - mae: 25819.2656

Epoch 296/1000

37/37 [==============================] - 3s 81ms/step - loss: 3.5013 - mae: 25695.9492

Epoch 297/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.5008 - mae: 25498.3887

Epoch 298/1000

37/37 [==============================] - 3s 81ms/step - loss: 3.5021 - mae: 26221.7578

Epoch 299/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.4987 - mae: 24863.8203

Epoch 300/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4991 - mae: 24899.2578

Epoch 301/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5030 - mae: 26533.9707

Epoch 302/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5009 - mae: 25788.7988

Epoch 303/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5004 - mae: 25414.4395

Epoch 304/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5008 - mae: 25156.8281

Epoch 305/1000

37/37 [==============================] - 3s 81ms/step - loss: 3.4992 - mae: 24434.7188

Epoch 306/1000

37/37 [==============================] - 3s 81ms/step - loss: 3.4991 - mae: 25021.0000

Epoch 307/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.5005 - mae: 25485.9082

Epoch 308/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.5005 - mae: 25259.6172

Epoch 309/1000

37/37 [==============================] - 3s 83ms/step - loss: 3.5011 - mae: 25629.4473

Epoch 310/1000

37/37 [==============================] - 3s 84ms/step - loss: 3.4980 - mae: 24569.2168

Epoch 311/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4998 - mae: 25050.4473

Epoch 312/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4993 - mae: 25251.9961

Epoch 313/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4993 - mae: 25406.8789

Epoch 314/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5014 - mae: 26141.3438

Epoch 315/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4992 - mae: 24950.6855

Epoch 316/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4997 - mae: 24857.5801

Epoch 317/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5004 - mae: 25777.9238

Epoch 318/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5001 - mae: 25359.7207

Epoch 319/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5004 - mae: 25677.9922

Epoch 320/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.5001 - mae: 26099.4512

Epoch 321/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4981 - mae: 24507.2148

Epoch 322/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4987 - mae: 24835.4180

Epoch 323/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4996 - mae: 25068.4863

Epoch 324/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4980 - mae: 24184.9238

Epoch 325/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4985 - mae: 24568.7285

Epoch 326/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4996 - mae: 24915.2559

Epoch 327/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4963 - mae: 23660.9199

Epoch 328/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.5008 - mae: 25577.3125

Epoch 329/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4989 - mae: 24883.5996

Epoch 330/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4974 - mae: 23801.5078

Epoch 331/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4987 - mae: 24525.0684

Epoch 332/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4971 - mae: 23686.3398

Epoch 333/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4979 - mae: 24325.8926

Epoch 334/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4977 - mae: 23999.3516

Epoch 335/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4986 - mae: 24905.0508

Epoch 336/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4985 - mae: 25099.5742

Epoch 337/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4989 - mae: 24296.8828

Epoch 338/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4979 - mae: 24831.6602

Epoch 339/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4980 - mae: 24278.4512

Epoch 340/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4967 - mae: 24017.0391

Epoch 341/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4958 - mae: 23140.0215

Epoch 342/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4995 - mae: 25320.8652

Epoch 343/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4959 - mae: 23347.7578

Epoch 344/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4976 - mae: 23996.8418

Epoch 345/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4973 - mae: 23286.7969

Epoch 346/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4961 - mae: 23116.1172

Epoch 347/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4971 - mae: 24629.2949

Epoch 348/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4957 - mae: 23054.8125

Epoch 349/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4965 - mae: 23772.7012

Epoch 350/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4952 - mae: 23375.5215

Epoch 351/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4976 - mae: 24164.8125

Epoch 352/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4961 - mae: 23529.6621

Epoch 353/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4946 - mae: 22955.7637

Epoch 354/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4966 - mae: 23791.5957

Epoch 355/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4961 - mae: 23615.2598

Epoch 356/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4958 - mae: 23450.0527

Epoch 357/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4945 - mae: 22744.8887

Epoch 358/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4964 - mae: 23770.7539

Epoch 359/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4956 - mae: 22955.5723

Epoch 360/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4964 - mae: 23558.6602

Epoch 361/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4941 - mae: 22583.0723

Epoch 362/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4976 - mae: 24190.5820

Epoch 363/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4937 - mae: 22028.7188

Epoch 364/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4956 - mae: 22515.3086

Epoch 365/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4964 - mae: 24028.7676

Epoch 366/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4962 - mae: 23841.3555

Epoch 367/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4944 - mae: 22766.9805

Epoch 368/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4964 - mae: 23179.2910

Epoch 369/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4949 - mae: 23043.9297

Epoch 370/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4935 - mae: 21981.1348

Epoch 371/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4978 - mae: 24245.6426

Epoch 372/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4930 - mae: 21752.4102

Epoch 373/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4960 - mae: 23951.1777

Epoch 374/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4964 - mae: 23417.3262

Epoch 375/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4948 - mae: 22969.6191

Epoch 376/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4970 - mae: 23592.6328

Epoch 377/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4945 - mae: 22697.0957

Epoch 378/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4971 - mae: 23989.5000

Epoch 379/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4946 - mae: 22996.3652

Epoch 380/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4956 - mae: 23322.6895

Epoch 381/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4928 - mae: 22072.7715

Epoch 382/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4953 - mae: 22671.0527

Epoch 383/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4938 - mae: 22689.5078

Epoch 384/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4949 - mae: 22494.9727

Epoch 385/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4941 - mae: 21917.0820

Epoch 386/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4938 - mae: 22498.6465

Epoch 387/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4941 - mae: 22344.0684

Epoch 388/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4945 - mae: 22441.8184

Epoch 389/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4936 - mae: 22618.7422

Epoch 390/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4940 - mae: 22360.8047

Epoch 391/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4955 - mae: 23066.5000

Epoch 392/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4938 - mae: 22591.0703

Epoch 393/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4945 - mae: 22745.5488

Epoch 394/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4933 - mae: 22040.0273

Epoch 395/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4942 - mae: 23090.1543

Epoch 396/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4926 - mae: 21653.3398

Epoch 397/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4923 - mae: 21838.7188

Epoch 398/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4942 - mae: 23049.6172

Epoch 399/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4928 - mae: 21766.2598

Epoch 400/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4934 - mae: 22097.2891

Epoch 401/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4940 - mae: 22418.9980

Epoch 402/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4934 - mae: 22294.3555

Epoch 403/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4930 - mae: 22565.5703

Epoch 404/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4942 - mae: 22495.3887

Epoch 405/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4934 - mae: 22143.4668

Epoch 406/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4925 - mae: 21730.2969

Epoch 407/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4921 - mae: 21829.5645

Epoch 408/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4937 - mae: 22209.6309

Epoch 409/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4909 - mae: 20534.3770

Epoch 410/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4933 - mae: 22258.1719

Epoch 411/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4919 - mae: 21672.7773

Epoch 412/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4924 - mae: 21109.5059

Epoch 413/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4937 - mae: 22418.4824

Epoch 414/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4929 - mae: 21796.8711

Epoch 415/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4925 - mae: 21803.2949

Epoch 416/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4915 - mae: 20525.7480

Epoch 417/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4938 - mae: 22940.2949

Epoch 418/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4914 - mae: 21037.9863

Epoch 419/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4913 - mae: 21404.1094

Epoch 420/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4914 - mae: 20623.1875

Epoch 421/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4932 - mae: 22792.1289

Epoch 422/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4919 - mae: 21544.7480

Epoch 423/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4910 - mae: 20796.7578

Epoch 424/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4917 - mae: 21270.8574

Epoch 425/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4916 - mae: 21469.7812

Epoch 426/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4903 - mae: 21015.5215

Epoch 427/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4936 - mae: 22884.4082

Epoch 428/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4915 - mae: 21767.3945

Epoch 429/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4901 - mae: 20495.6992

Epoch 430/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4909 - mae: 20734.5723

Epoch 431/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4937 - mae: 22219.7598

Epoch 432/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4903 - mae: 20831.2012

Epoch 433/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4907 - mae: 20462.1328

Epoch 434/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4928 - mae: 22177.9941

Epoch 435/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4904 - mae: 20312.1367

Epoch 436/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4895 - mae: 20033.8262

Epoch 437/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4915 - mae: 21805.2188

Epoch 438/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4898 - mae: 20027.0508

Epoch 439/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4919 - mae: 21424.9785

Epoch 440/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4901 - mae: 19752.9785

Epoch 441/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4899 - mae: 19800.0000

Epoch 442/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4911 - mae: 20520.3359

Epoch 443/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4922 - mae: 21236.5430

Epoch 444/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4900 - mae: 20044.6309

Epoch 445/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4905 - mae: 20360.4766

Epoch 446/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4894 - mae: 19715.7715

Epoch 447/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4902 - mae: 20492.0410

Epoch 448/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4908 - mae: 20992.8809

Epoch 449/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4907 - mae: 20745.4824

Epoch 450/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4903 - mae: 20745.7188

Epoch 451/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4901 - mae: 20278.8145

Epoch 452/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4895 - mae: 20034.6934

Epoch 453/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4909 - mae: 21194.7559

Epoch 454/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4893 - mae: 20131.7422

Epoch 455/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4899 - mae: 20172.7793

Epoch 456/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4892 - mae: 19591.0879

Epoch 457/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4906 - mae: 21040.2988

Epoch 458/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4898 - mae: 20586.0508

Epoch 459/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4894 - mae: 20166.7461

Epoch 460/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4899 - mae: 20550.9238

Epoch 461/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4903 - mae: 20450.5254

Epoch 462/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4896 - mae: 20006.9277

Epoch 463/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4902 - mae: 20537.4688

Epoch 464/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4897 - mae: 20249.2617

Epoch 465/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4910 - mae: 20745.0039

Epoch 466/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4888 - mae: 19746.9570

Epoch 467/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4900 - mae: 20336.5371

Epoch 468/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4898 - mae: 20249.2715

Epoch 469/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4895 - mae: 20263.5508

Epoch 470/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4885 - mae: 19565.9746

Epoch 471/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4904 - mae: 21191.8066

Epoch 472/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4897 - mae: 20624.3184

Epoch 473/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4882 - mae: 19096.0762

Epoch 474/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4904 - mae: 21171.7969

Epoch 475/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4888 - mae: 19283.2012

Epoch 476/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4911 - mae: 21044.7305

Epoch 477/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4881 - mae: 19224.4512

Epoch 478/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4903 - mae: 20658.0840

Epoch 479/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4881 - mae: 18907.7148

Epoch 480/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4902 - mae: 20023.9648

Epoch 481/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4883 - mae: 18520.5254

Epoch 482/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4893 - mae: 20333.8691

Epoch 483/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4906 - mae: 20814.2188

Epoch 484/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4889 - mae: 19936.3340

Epoch 485/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4885 - mae: 19477.0352

Epoch 486/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4892 - mae: 20685.0820

Epoch 487/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4891 - mae: 19832.8730

Epoch 488/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4877 - mae: 19176.3691

Epoch 489/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4892 - mae: 20520.1621

Epoch 490/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4888 - mae: 19481.7246

Epoch 491/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4889 - mae: 20376.1855

Epoch 492/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4892 - mae: 19967.3965

Epoch 493/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4904 - mae: 20988.6953

Epoch 494/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4872 - mae: 18080.8223

Epoch 495/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4897 - mae: 20203.0117

Epoch 496/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4878 - mae: 18946.5410

Epoch 497/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4894 - mae: 20531.0840

Epoch 498/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4884 - mae: 19564.9590

Epoch 499/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4905 - mae: 20708.7012

Epoch 500/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4882 - mae: 18992.1172

Epoch 501/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4873 - mae: 18020.8047

Epoch 502/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4894 - mae: 19914.6465

Epoch 503/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4876 - mae: 18437.7891

Epoch 504/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4894 - mae: 19861.2891

Epoch 505/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4879 - mae: 19038.2441

Epoch 506/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4878 - mae: 18807.3945

Epoch 507/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4888 - mae: 19995.7031

Epoch 508/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4884 - mae: 19379.7578

Epoch 509/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4855 - mae: 17015.0605

Epoch 510/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4896 - mae: 19873.5078

Epoch 511/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4864 - mae: 17385.4434

Epoch 512/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4886 - mae: 20083.4297

Epoch 513/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4884 - mae: 19589.7969

Epoch 514/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4893 - mae: 20204.1660

Epoch 515/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4868 - mae: 18634.6895

Epoch 516/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4881 - mae: 18953.8027

Epoch 517/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4886 - mae: 19767.6895

Epoch 518/1000

37/37 [==============================] - 3s 84ms/step - loss: 3.4877 - mae: 18866.5840

Epoch 519/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4880 - mae: 19481.8672

Epoch 520/1000

37/37 [==============================] - 3s 80ms/step - loss: 3.4886 - mae: 19306.2969

Epoch 521/1000

37/37 [==============================] - 3s 80ms/step - loss: 3.4866 - mae: 17769.4668

Epoch 522/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4878 - mae: 18269.1914

Epoch 523/1000

37/37 [==============================] - 3s 84ms/step - loss: 3.4871 - mae: 19095.0371

Epoch 524/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4885 - mae: 19464.9785

Epoch 525/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4878 - mae: 18633.3184

Epoch 526/1000

37/37 [==============================] - 3s 84ms/step - loss: 3.4883 - mae: 19275.5234

Epoch 527/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.4873 - mae: 18121.2832

Epoch 528/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.4871 - mae: 18944.2402

Epoch 529/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.4875 - mae: 18879.9785

Epoch 530/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4889 - mae: 20129.4668

Epoch 531/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4877 - mae: 19608.2480

Epoch 532/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4871 - mae: 18276.3555

Epoch 533/1000

37/37 [==============================] - 3s 80ms/step - loss: 3.4882 - mae: 19209.3242

Epoch 534/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.4871 - mae: 18855.3965

Epoch 535/1000

37/37 [==============================] - 3s 80ms/step - loss: 3.4870 - mae: 17969.1035

Epoch 536/1000

37/37 [==============================] - 3s 80ms/step - loss: 3.4877 - mae: 19133.1074

Epoch 537/1000

37/37 [==============================] - 3s 80ms/step - loss: 3.4871 - mae: 18184.7988

Epoch 538/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4858 - mae: 17403.3672

Epoch 539/1000

37/37 [==============================] - 3s 80ms/step - loss: 3.4880 - mae: 19482.2871

Epoch 540/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4880 - mae: 19310.2578

Epoch 541/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4876 - mae: 18732.7598

Epoch 542/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4866 - mae: 18445.2500

Epoch 543/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4873 - mae: 18761.3262

Epoch 544/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4872 - mae: 18356.3398

Epoch 545/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4862 - mae: 17835.8457

Epoch 546/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4862 - mae: 17920.0703

Epoch 547/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4889 - mae: 19615.4297

Epoch 548/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4870 - mae: 18641.4492

Epoch 549/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4863 - mae: 17617.1387

Epoch 550/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4868 - mae: 17651.0703

Epoch 551/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4870 - mae: 18449.5078

Epoch 552/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4879 - mae: 19983.2930

Epoch 553/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4857 - mae: 17062.6797

Epoch 554/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4873 - mae: 18021.8125

Epoch 555/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4870 - mae: 18835.7852

Epoch 556/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4860 - mae: 17403.4238

Epoch 557/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4863 - mae: 17874.5801

Epoch 558/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4875 - mae: 18662.6504

Epoch 559/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4869 - mae: 18348.0762

Epoch 560/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4856 - mae: 17462.4121

Epoch 561/1000

37/37 [==============================] - 3s 80ms/step - loss: 3.4880 - mae: 18100.7969

Epoch 562/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4864 - mae: 17992.9492

Epoch 563/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4865 - mae: 18650.7051

Epoch 564/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4870 - mae: 18761.7891

Epoch 565/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4858 - mae: 17525.3535

Epoch 566/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4878 - mae: 18661.7363

Epoch 567/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4861 - mae: 17510.6348

Epoch 568/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4857 - mae: 17345.5488

Epoch 569/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4881 - mae: 19114.8535

Epoch 570/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4857 - mae: 17622.1562

Epoch 571/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4869 - mae: 18541.2227

Epoch 572/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4868 - mae: 18367.6133

Epoch 573/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4879 - mae: 18284.1230

Epoch 574/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4856 - mae: 17203.4180

Epoch 575/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4864 - mae: 18316.1602

Epoch 576/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4870 - mae: 19052.3262

Epoch 577/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4860 - mae: 18124.0820

Epoch 578/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4864 - mae: 18071.0371

Epoch 579/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4861 - mae: 18135.0293

Epoch 580/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4870 - mae: 18550.7930

Epoch 581/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4858 - mae: 17005.7207

Epoch 582/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4868 - mae: 17946.2832

Epoch 583/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4863 - mae: 17982.2852

Epoch 584/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4862 - mae: 17507.1641

Epoch 585/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4855 - mae: 17472.1328

Epoch 586/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4868 - mae: 17768.2148

Epoch 587/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4865 - mae: 17914.1328

Epoch 588/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4852 - mae: 16950.5410

Epoch 589/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4869 - mae: 18291.4297

Epoch 590/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4857 - mae: 17693.6191

Epoch 591/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4860 - mae: 17806.9727

Epoch 592/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4866 - mae: 17871.1113

Epoch 593/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4856 - mae: 17098.5762

Epoch 594/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4856 - mae: 17266.2109

Epoch 595/1000

37/37 [==============================] - 3s 81ms/step - loss: 3.4857 - mae: 17256.8086

Epoch 596/1000

37/37 [==============================] - 3s 81ms/step - loss: 3.4865 - mae: 18382.3438

Epoch 597/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4863 - mae: 17456.8164

Epoch 598/1000

37/37 [==============================] - 3s 81ms/step - loss: 3.4848 - mae: 16894.7090

Epoch 599/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4864 - mae: 18117.3828

Epoch 600/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4855 - mae: 17627.0078

Epoch 601/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4868 - mae: 18279.6191

Epoch 602/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4858 - mae: 18147.5352

Epoch 603/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4851 - mae: 16748.2520

Epoch 604/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4862 - mae: 18166.3438

Epoch 605/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4861 - mae: 17877.8984

Epoch 606/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4852 - mae: 17252.6855

Epoch 607/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4856 - mae: 17849.9375

Epoch 608/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4850 - mae: 17065.7285

Epoch 609/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4859 - mae: 18109.6484

Epoch 610/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4854 - mae: 17532.5625

Epoch 611/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4851 - mae: 16793.7422

Epoch 612/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4852 - mae: 17449.8359

Epoch 613/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4861 - mae: 18337.8418

Epoch 614/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4852 - mae: 17261.1094

Epoch 615/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4854 - mae: 17467.3848

Epoch 616/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4861 - mae: 17771.8457

Epoch 617/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4859 - mae: 17708.6426

Epoch 618/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4853 - mae: 17292.5586

Epoch 619/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4847 - mae: 16720.7754

Epoch 620/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4857 - mae: 17565.4141

Epoch 621/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4858 - mae: 17647.2930

Epoch 622/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4854 - mae: 17386.4141

Epoch 623/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4856 - mae: 17507.3086

Epoch 624/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4856 - mae: 17940.1562

Epoch 625/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4854 - mae: 17465.5898

Epoch 626/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4856 - mae: 17815.9531

Epoch 627/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4851 - mae: 16783.3633

Epoch 628/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4846 - mae: 17029.6934

Epoch 629/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4850 - mae: 16343.9092

Epoch 630/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4861 - mae: 17558.7285

Epoch 631/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4858 - mae: 17792.7949

Epoch 632/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4852 - mae: 16346.8750

Epoch 633/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4834 - mae: 15411.9023

Epoch 634/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4859 - mae: 18078.9824

Epoch 635/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4857 - mae: 17586.9844

Epoch 636/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4850 - mae: 16611.7383

Epoch 637/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4860 - mae: 17983.0879

Epoch 638/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4847 - mae: 16910.9453

Epoch 639/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4857 - mae: 17716.8359

Epoch 640/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4851 - mae: 17496.7090

Epoch 641/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4843 - mae: 16145.3545

Epoch 642/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4851 - mae: 16899.2578

Epoch 643/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4851 - mae: 17209.6094

Epoch 644/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4853 - mae: 17154.9102

Epoch 645/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4853 - mae: 16950.6230

Epoch 646/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4848 - mae: 17002.4375

Epoch 647/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4851 - mae: 16740.1387

Epoch 648/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4850 - mae: 16763.5430

Epoch 649/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4845 - mae: 16604.0312

Epoch 650/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4841 - mae: 16114.6660

Epoch 651/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4860 - mae: 17379.4023

Epoch 652/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4848 - mae: 16410.1348

Epoch 653/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4850 - mae: 17016.8164

Epoch 654/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4859 - mae: 18275.0000

Epoch 655/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4846 - mae: 16228.0586

Epoch 656/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4843 - mae: 16542.7637

Epoch 657/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4847 - mae: 16797.1465

Epoch 658/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4864 - mae: 18391.6621

Epoch 659/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4839 - mae: 16562.0898

Epoch 660/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4848 - mae: 16878.3887

Epoch 661/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4856 - mae: 17214.7285

Epoch 662/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4851 - mae: 17279.1523

Epoch 663/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4840 - mae: 16076.3613

Epoch 664/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4854 - mae: 17580.8770

Epoch 665/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4837 - mae: 15559.1611

Epoch 666/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4855 - mae: 17104.9414

Epoch 667/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4847 - mae: 17172.2266

Epoch 668/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4853 - mae: 17007.8516

Epoch 669/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4844 - mae: 16531.2656

Epoch 670/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4849 - mae: 17348.2930

Epoch 671/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4842 - mae: 15843.5137

Epoch 672/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4834 - mae: 15360.0498

Epoch 673/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4852 - mae: 16738.8887

Epoch 674/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4840 - mae: 16312.7432

Epoch 675/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4846 - mae: 16718.3848

Epoch 676/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4847 - mae: 16983.3047

Epoch 677/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4848 - mae: 17393.0020

Epoch 678/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4841 - mae: 15747.3252

Epoch 679/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4859 - mae: 18096.1836

Epoch 680/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4832 - mae: 15208.7949

Epoch 681/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4847 - mae: 17069.0762

Epoch 682/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.4838 - mae: 16399.3867

Epoch 683/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4844 - mae: 16692.8477

Epoch 684/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4848 - mae: 17095.9590

Epoch 685/1000

37/37 [==============================] - 3s 81ms/step - loss: 3.4842 - mae: 16261.2109

Epoch 686/1000

37/37 [==============================] - 3s 84ms/step - loss: 3.4844 - mae: 16691.6582

Epoch 687/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4843 - mae: 15632.7188

Epoch 688/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4839 - mae: 15810.8154

Epoch 689/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4840 - mae: 16237.4980

Epoch 690/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4844 - mae: 16236.2998

Epoch 691/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4843 - mae: 17161.2949

Epoch 692/1000

37/37 [==============================] - 3s 81ms/step - loss: 3.4838 - mae: 15841.7500

Epoch 693/1000

37/37 [==============================] - 3s 83ms/step - loss: 3.4839 - mae: 15383.0566

Epoch 694/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.4846 - mae: 16935.7598

Epoch 695/1000

37/37 [==============================] - 3s 81ms/step - loss: 3.4844 - mae: 16661.7012

Epoch 696/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4838 - mae: 16333.0137

Epoch 697/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4843 - mae: 17150.8496

Epoch 698/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4837 - mae: 16218.5430

Epoch 699/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4847 - mae: 16744.8535

Epoch 700/1000

37/37 [==============================] - 3s 83ms/step - loss: 3.4840 - mae: 16150.8115

Epoch 701/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4837 - mae: 16205.0479

Epoch 702/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4842 - mae: 16941.6152

Epoch 703/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4839 - mae: 16035.3252

Epoch 704/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4844 - mae: 17273.5801

Epoch 705/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4839 - mae: 16470.2305

Epoch 706/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4841 - mae: 16376.0225

Epoch 707/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4837 - mae: 15805.3184

Epoch 708/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4843 - mae: 16765.9609

Epoch 709/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4842 - mae: 16781.1992

Epoch 710/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4841 - mae: 16299.4180

Epoch 711/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4844 - mae: 16734.8984

Epoch 712/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4840 - mae: 16066.0527

Epoch 713/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4836 - mae: 15783.2910

Epoch 714/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4835 - mae: 15844.4297

Epoch 715/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4843 - mae: 16446.3730

Epoch 716/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4829 - mae: 15055.6113

Epoch 717/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4840 - mae: 16668.6484

Epoch 718/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4832 - mae: 15812.8789

Epoch 719/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4838 - mae: 16640.8867

Epoch 720/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4847 - mae: 16717.0410

Epoch 721/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4828 - mae: 15060.2412

Epoch 722/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4849 - mae: 17092.1582

Epoch 723/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4830 - mae: 15567.1143

Epoch 724/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4842 - mae: 17002.4102

Epoch 725/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4838 - mae: 16165.7383

Epoch 726/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4845 - mae: 17093.4102

Epoch 727/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4839 - mae: 15456.3359

Epoch 728/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4830 - mae: 14570.6592

Epoch 729/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4837 - mae: 16097.8428

Epoch 730/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4832 - mae: 15858.0068

Epoch 731/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4843 - mae: 15754.8477

Epoch 732/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4833 - mae: 15891.1904

Epoch 733/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4834 - mae: 15855.6836

Epoch 734/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4835 - mae: 15817.9502

Epoch 735/1000

37/37 [==============================] - 3s 80ms/step - loss: 3.4833 - mae: 15973.5684

Epoch 736/1000

37/37 [==============================] - 3s 81ms/step - loss: 3.4843 - mae: 16173.4160

Epoch 737/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4837 - mae: 15774.4453

Epoch 738/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4835 - mae: 15707.5957

Epoch 739/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4841 - mae: 16852.1465

Epoch 740/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4833 - mae: 16042.7246

Epoch 741/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4835 - mae: 15973.5020

Epoch 742/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4832 - mae: 15387.3320

Epoch 743/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4839 - mae: 15916.5586

Epoch 744/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4838 - mae: 15885.8096

Epoch 745/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4843 - mae: 16140.2998

Epoch 746/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4829 - mae: 15393.0391

Epoch 747/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4835 - mae: 15655.8320

Epoch 748/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4828 - mae: 15278.5889

Epoch 749/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4829 - mae: 15315.2949

Epoch 750/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4835 - mae: 15848.1709

Epoch 751/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4837 - mae: 15615.5771

Epoch 752/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4837 - mae: 16286.9180

Epoch 753/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4831 - mae: 15607.5244

Epoch 754/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4837 - mae: 16118.4346

Epoch 755/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4838 - mae: 16332.3506

Epoch 756/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4829 - mae: 15480.5938

Epoch 757/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4837 - mae: 15827.7822

Epoch 758/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4829 - mae: 14860.8408

Epoch 759/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4837 - mae: 15181.0801

Epoch 760/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4834 - mae: 16033.4229

Epoch 761/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4829 - mae: 15203.2051

Epoch 762/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4839 - mae: 16237.3066

Epoch 763/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4831 - mae: 14998.1064

Epoch 764/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4827 - mae: 15117.2949

Epoch 765/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4840 - mae: 16184.1592

Epoch 766/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4838 - mae: 15778.1230

Epoch 767/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4826 - mae: 15210.6289

Epoch 768/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4834 - mae: 16040.6836

Epoch 769/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4826 - mae: 15021.4316

Epoch 770/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4829 - mae: 15438.2979

Epoch 771/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4836 - mae: 16170.3799

Epoch 772/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4832 - mae: 15533.1250

Epoch 773/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4826 - mae: 14902.1836

Epoch 774/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4831 - mae: 15416.8232

Epoch 775/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4835 - mae: 15609.8457

Epoch 776/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4825 - mae: 14776.2383

Epoch 777/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4844 - mae: 16411.9453

Epoch 778/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4826 - mae: 14640.5566

Epoch 779/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4825 - mae: 14895.5430

Epoch 780/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4823 - mae: 14787.4688

Epoch 781/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4834 - mae: 15583.2725

Epoch 782/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4824 - mae: 14792.9775

Epoch 783/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4829 - mae: 15347.9072

Epoch 784/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4833 - mae: 15802.9688

Epoch 785/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4829 - mae: 15320.4688

Epoch 786/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4831 - mae: 15010.7588

Epoch 787/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4830 - mae: 14986.6543

Epoch 788/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4824 - mae: 14533.8389

Epoch 789/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4830 - mae: 15414.3408

Epoch 790/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4824 - mae: 14686.5684

Epoch 791/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4826 - mae: 15032.9336

Epoch 792/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4835 - mae: 15419.4043

Epoch 793/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.4839 - mae: 16311.7363

Epoch 794/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4821 - mae: 14455.8857

Epoch 795/1000

37/37 [==============================] - 3s 81ms/step - loss: 3.4828 - mae: 15364.5518

Epoch 796/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4835 - mae: 15117.7256

Epoch 797/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4822 - mae: 14265.7451

Epoch 798/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4831 - mae: 15602.1182

Epoch 799/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4829 - mae: 15238.9541

Epoch 800/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4831 - mae: 15695.1387

Epoch 801/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4827 - mae: 15143.8135

Epoch 802/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4833 - mae: 15883.2568

Epoch 803/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4824 - mae: 14474.2119

Epoch 804/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4829 - mae: 15135.5840

Epoch 805/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4821 - mae: 14330.6670

Epoch 806/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4831 - mae: 15140.8301

Epoch 807/1000

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Epoch 808/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4827 - mae: 15164.2480

Epoch 809/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4829 - mae: 15554.9502

Epoch 810/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4825 - mae: 14759.3477

Epoch 811/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4824 - mae: 14703.1543

Epoch 812/1000

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Epoch 813/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4824 - mae: 15190.3115

Epoch 814/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4832 - mae: 15986.0596

Epoch 815/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4824 - mae: 14311.1826

Epoch 816/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4818 - mae: 13993.5869

Epoch 817/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4828 - mae: 14971.6367

Epoch 818/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4829 - mae: 15420.5342

Epoch 819/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4825 - mae: 14622.8926

Epoch 820/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4818 - mae: 14472.9131

Epoch 821/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4831 - mae: 15521.4043

Epoch 822/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4826 - mae: 14780.1982

Epoch 823/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4827 - mae: 15335.0244

Epoch 824/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4824 - mae: 14550.2842

Epoch 825/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4823 - mae: 14536.3887

Epoch 826/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4823 - mae: 14857.0000

Epoch 827/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4831 - mae: 15379.7393

Epoch 828/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4823 - mae: 14239.3965

Epoch 829/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4823 - mae: 14735.2383

Epoch 830/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4829 - mae: 15546.1113

Epoch 831/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4825 - mae: 15109.2090

Epoch 832/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4827 - mae: 15678.3252

Epoch 833/1000

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Epoch 834/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4821 - mae: 14649.0928

Epoch 835/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4820 - mae: 14100.2021

Epoch 836/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4833 - mae: 15242.4141

Epoch 837/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4825 - mae: 14902.3115

Epoch 838/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4822 - mae: 14314.7285

Epoch 839/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4828 - mae: 15229.8994

Epoch 840/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4825 - mae: 14630.2959

Epoch 841/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4822 - mae: 14554.2363

Epoch 842/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4821 - mae: 14322.5225

Epoch 843/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4825 - mae: 14542.4277

Epoch 844/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4825 - mae: 15028.3359

Epoch 845/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4826 - mae: 15224.4131

Epoch 846/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4821 - mae: 14713.3320

Epoch 847/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4820 - mae: 13840.9756

Epoch 848/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4821 - mae: 14032.4873

Epoch 849/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4824 - mae: 14060.7861

Epoch 850/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4824 - mae: 15045.8955

Epoch 851/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4831 - mae: 15924.0518

Epoch 852/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4811 - mae: 13405.2969

Epoch 853/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4827 - mae: 15415.2607

Epoch 854/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4832 - mae: 15510.4473

Epoch 855/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4825 - mae: 15194.0684

Epoch 856/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4818 - mae: 13823.4746

Epoch 857/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4830 - mae: 15757.9521

Epoch 858/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4827 - mae: 14943.9502

Epoch 859/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4821 - mae: 14418.4932

Epoch 860/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4827 - mae: 15020.8389

Epoch 861/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4818 - mae: 13740.5283

Epoch 862/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4822 - mae: 14806.4912

Epoch 863/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4823 - mae: 14981.7549

Epoch 864/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4829 - mae: 15356.0859

Epoch 865/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4817 - mae: 14119.2432

Epoch 866/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4818 - mae: 14377.4844

Epoch 867/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4829 - mae: 15555.7314

Epoch 868/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4820 - mae: 14609.4248

Epoch 869/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4821 - mae: 14630.5820

Epoch 870/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4831 - mae: 16159.7383

Epoch 871/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4819 - mae: 14120.3818

Epoch 872/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4825 - mae: 15122.0293

Epoch 873/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4824 - mae: 15202.8594

Epoch 874/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4820 - mae: 14122.5645

Epoch 875/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4824 - mae: 14916.1523

Epoch 876/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4824 - mae: 14797.6768

Epoch 877/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4822 - mae: 14231.9062

Epoch 878/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4821 - mae: 14331.5615

Epoch 879/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4820 - mae: 14299.0498

Epoch 880/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4816 - mae: 13773.2246

Epoch 881/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4828 - mae: 15470.2314

Epoch 882/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4818 - mae: 14178.9658

Epoch 883/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4822 - mae: 14696.9160

Epoch 884/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4821 - mae: 14681.4502

Epoch 885/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4817 - mae: 14201.7129

Epoch 886/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4822 - mae: 14454.3223

Epoch 887/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4825 - mae: 15069.2451

Epoch 888/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4820 - mae: 14456.9824

Epoch 889/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4823 - mae: 14886.0186

Epoch 890/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4823 - mae: 14502.5088

Epoch 891/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4818 - mae: 14428.2959

Epoch 892/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4820 - mae: 14251.2607

Epoch 893/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4821 - mae: 14209.2627

Epoch 894/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4826 - mae: 15069.4482

Epoch 895/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4813 - mae: 13648.7676

Epoch 896/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4824 - mae: 14748.2109

Epoch 897/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4828 - mae: 15035.2676

Epoch 898/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4813 - mae: 13635.5908

Epoch 899/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4822 - mae: 14125.1504

Epoch 900/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4817 - mae: 14533.4844

Epoch 901/1000

37/37 [==============================] - 3s 78ms/step - loss: 3.4828 - mae: 15173.6797

Epoch 902/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4815 - mae: 13481.7891

Epoch 903/1000

37/37 [==============================] - 3s 80ms/step - loss: 3.4821 - mae: 14165.6289

Epoch 904/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4818 - mae: 14640.0859

Epoch 905/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4817 - mae: 13745.0654

Epoch 906/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4820 - mae: 14039.6084

Epoch 907/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4815 - mae: 13759.9834

Epoch 908/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4824 - mae: 14576.4980

Epoch 909/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4816 - mae: 13895.1895

Epoch 910/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4814 - mae: 13275.9336

Epoch 911/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4818 - mae: 13782.7461

Epoch 912/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4816 - mae: 13836.5381

Epoch 913/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4821 - mae: 14884.7158

Epoch 914/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4816 - mae: 13799.1055

Epoch 915/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4818 - mae: 14052.2109

Epoch 916/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4821 - mae: 14541.5342

Epoch 917/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4816 - mae: 14021.9512

Epoch 918/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4826 - mae: 14570.5479

Epoch 919/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4815 - mae: 13526.7305

Epoch 920/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4813 - mae: 13755.0557

Epoch 921/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4823 - mae: 14623.5801

Epoch 922/1000

37/37 [==============================] - 3s 77ms/step - loss: 3.4821 - mae: 14459.8926

Epoch 923/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4814 - mae: 13390.1816

Epoch 924/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4824 - mae: 15105.5205

Epoch 925/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4811 - mae: 13459.4395

Epoch 926/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4819 - mae: 14308.5098

Epoch 927/1000

37/37 [==============================] - 3s 76ms/step - loss: 3.4823 - mae: 14614.3574

Epoch 928/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4815 - mae: 14333.0908

Epoch 929/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4821 - mae: 14629.3496

Epoch 930/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4817 - mae: 14059.9170

Epoch 931/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4813 - mae: 13871.3447

Epoch 932/1000

37/37 [==============================] - 3s 75ms/step - loss: 3.4817 - mae: 14049.8340

Epoch 933/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4818 - mae: 14087.4854

Epoch 934/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4818 - mae: 14136.2393

Epoch 935/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4811 - mae: 13368.4346

Epoch 936/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4819 - mae: 13934.1504

Epoch 937/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4825 - mae: 15141.6592

Epoch 938/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4814 - mae: 13922.0908

Epoch 939/1000

37/37 [==============================] - 3s 79ms/step - loss: 3.4810 - mae: 13035.7510

Epoch 940/1000

37/37 [==============================] - 3s 82ms/step - loss: 3.4823 - mae: 14648.2090

Epoch 941/1000

37/37 [==============================] - 3s 80ms/step - loss: 3.4814 - mae: 13919.5127

Epoch 942/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4815 - mae: 14121.7119

Epoch 943/1000

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Epoch 944/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4819 - mae: 14508.9727

Epoch 945/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4817 - mae: 14195.6709

Epoch 946/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4817 - mae: 14048.8887

Epoch 947/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4811 - mae: 13468.7959

Epoch 948/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4818 - mae: 14423.5791

Epoch 949/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4824 - mae: 15338.0459

Epoch 950/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4812 - mae: 13459.4766

Epoch 951/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4820 - mae: 14378.5342

Epoch 952/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4817 - mae: 14122.5176

Epoch 953/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4818 - mae: 14471.7227

Epoch 954/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4811 - mae: 12479.5127

Epoch 955/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4817 - mae: 14081.5605

Epoch 956/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4820 - mae: 14329.2285

Epoch 957/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4819 - mae: 14532.4658

Epoch 958/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4816 - mae: 14057.9248

Epoch 959/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4816 - mae: 14248.9893

Epoch 960/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4813 - mae: 13627.5586

Epoch 961/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4816 - mae: 13987.9141

Epoch 962/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4820 - mae: 14540.3789

Epoch 963/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4814 - mae: 13719.5107

Epoch 964/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4819 - mae: 13953.1807

Epoch 965/1000

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Epoch 966/1000

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Epoch 967/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4811 - mae: 13797.1416

Epoch 968/1000

37/37 [==============================] - 3s 74ms/step - loss: 3.4819 - mae: 14116.1250

Epoch 969/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4813 - mae: 13765.9033

Epoch 970/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4819 - mae: 14103.6152

Epoch 971/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4812 - mae: 13512.1289

Epoch 972/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4818 - mae: 14498.5068

Epoch 973/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4813 - mae: 14075.9277

Epoch 974/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4814 - mae: 13899.0479

Epoch 975/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4823 - mae: 14195.3848

Epoch 976/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4815 - mae: 13480.2988

Epoch 977/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4816 - mae: 14402.5361

Epoch 978/1000

37/37 [==============================] - 3s 72ms/step - loss: 3.4809 - mae: 13214.3408

Epoch 979/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4819 - mae: 13754.4082

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Epoch 982/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4812 - mae: 13697.3301

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37/37 [==============================] - 3s 73ms/step - loss: 3.4818 - mae: 14186.2744

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37/37 [==============================] - 3s 73ms/step - loss: 3.4815 - mae: 14188.3242

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37/37 [==============================] - 3s 73ms/step - loss: 3.4813 - mae: 13616.8057

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37/37 [==============================] - 3s 73ms/step - loss: 3.4814 - mae: 13488.5166

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37/37 [==============================] - 3s 73ms/step - loss: 3.4814 - mae: 13954.2295

Epoch 989/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4821 - mae: 14373.2139

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37/37 [==============================] - 3s 72ms/step - loss: 3.4813 - mae: 13332.1631

Epoch 991/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4817 - mae: 13849.9131

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37/37 [==============================] - 3s 72ms/step - loss: 3.4812 - mae: 13711.8965

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37/37 [==============================] - 3s 73ms/step - loss: 3.4811 - mae: 13456.5566

Epoch 995/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4816 - mae: 14333.4189

Epoch 996/1000

37/37 [==============================] - 3s 73ms/step - loss: 3.4810 - mae: 12992.7783

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plot next

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3 1464

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[1459 rows x 1000 columns]