

In [1]:

```
import numpy as np
import pandas as pd
import warnings
warnings.filterwarnings ('ignore')
```

In [3]:

```
df = pd.read_csv('https://raw.githubusercontent.com/dsrscientist/DSDData/master/happiness_
score_dataset.csv')
```

In [4]:

```
df.head()
```

Out[4]:

	Country	Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)	Freedom	Trust (Government Corruption)	Generosity
0	Switzerland	Western Europe	1	7.587	0.03411	1.39651	1.34951	0.94143	0.66557	0.41978	0.2967
1	Iceland	Western Europe	2	7.561	0.04884	1.30232	1.40223	0.94784	0.62877	0.14145	0.4363
2	Denmark	Western Europe	3	7.527	0.03328	1.32548	1.36058	0.87464	0.64938	0.48357	0.3413
3	Norway	Western Europe	4	7.522	0.03880	1.45900	1.33095	0.88521	0.66973	0.36503	0.3469
4	Canada	North America	5	7.427	0.03553	1.32629	1.32261	0.90563	0.63297	0.32957	0.4581

In [5]:

```
df.shape
```

Out[5]:

```
(158, 12)
```

In [6]:

```
df.tail()
```

Out[6]:

	Country	Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)	Freedom	Trust (Government Corruption)	Generosity
153	Rwanda	Sub-Saharan Africa	154	3.465	0.03464	0.22208	0.77370	0.42864	0.59201	0.55191	0.22628
154	Benin	Sub-Saharan Africa	155	3.340	0.03656	0.28665	0.35386	0.31910	0.48450	0.08010	0.18260
155	Syria	Middle East and Northern Africa	156	3.006	0.05015	0.66320	0.47489	0.72193	0.15684	0.18906	0.47179
156	Burundi	Sub-Saharan Africa	157	2.905	0.08658	0.01530	0.41587	0.22396	0.11850	0.10062	0.19727

157	Country	Sub-Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)	Freedom	Trust (Government Corruption)	Generosity
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In [8]:

```
df.describe().transpose()
```

Out [8]:

	count	mean	std	min	25%	50%	75%	max
Happiness Rank	158.0	79.493671	45.754363	1.00000	40.250000	79.500000	118.750000	158.000000
Happiness Score	158.0	5.375734	1.145010	2.83900	4.526000	5.232500	6.243750	7.58700
Standard Error	158.0	0.047885	0.017146	0.01848	0.037268	0.043940	0.052300	0.13693
Economy (GDP per Capita)	158.0	0.846137	0.403121	0.00000	0.545808	0.910245	1.158448	1.69042
Family	158.0	0.991046	0.272369	0.00000	0.856823	1.029510	1.214405	1.40223
Health (Life Expectancy)	158.0	0.630259	0.247078	0.00000	0.439185	0.696705	0.811013	1.02525
Freedom	158.0	0.428615	0.150693	0.00000	0.328330	0.435515	0.549092	0.66973
Trust (Government Corruption)	158.0	0.143422	0.120034	0.00000	0.061675	0.107220	0.180255	0.55191
Generosity	158.0	0.237296	0.126685	0.00000	0.150553	0.216130	0.309883	0.79588
Dystopia Residual	158.0	2.098977	0.553550	0.32858	1.759410	2.095415	2.462415	3.60214

In [9]:

```
df.columns
```

Out [9]:

```
Index(['Country', 'Region', 'Happiness Rank', 'Happiness Score',
       'Standard Error', 'Economy (GDP per Capita)', 'Family',
       'Health (Life Expectancy)', 'Freedom', 'Trust (Government Corruption)',
       'Generosity', 'Dystopia Residual'],
      dtype='object')
```

Renaming the Columns for ease

In [10]:

```
df.rename(columns = {'Happiness Rank':'happiness_rank', 'Happiness Score':'happiness_score', 'Standard Error':'standard_error', 'Economy (GDP per Capita)':'gdp', 'Health (Life Expectancy)':'life', 'Freedom':'corruption', 'Trust (Government Corruption)':'corruption', 'Generosity':'dystopia_residual'}, inplace = True)
```

In [11]:

```
df.columns
```

Out [11]:

```
Index(['Country', 'Region', 'happiness_rank', 'happiness_score',
       'standard_error', 'gdp', 'Family', 'life', 'Freedom', 'corruption',
       'Generosity', 'dystopia_residual'],
      dtype='object')
```

In [12]:

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 158 entries, 0 to 157
Data columns (total 12 columns):
 #   Column           Non-Null Count  Dtype  
 ---  -- 
 0   Country          158 non-null    object 
 1   Region           158 non-null    object 
 2   happiness_rank  158 non-null    float64
 3   happiness_score 158 non-null    float64
 4   standard_error  158 non-null    float64
 5   gdp              158 non-null    float64
 6   Family            158 non-null    float64
 7   life              158 non-null    float64
 8   Freedom           158 non-null    float64
 9   corruption        158 non-null    float64
 10  Generosity       158 non-null    float64
 11  dystopia_residual 158 non-null    float64
```

```
    country          158 non-null   object
1  Region           158 non-null   int64
2  happiness_rank   158 non-null   float64
3  happiness_score  158 non-null   float64
4  standard_error   158 non-null   float64
5  gdp              158 non-null   float64
6  Family            158 non-null   float64
7  life              158 non-null   float64
8  Freedom           158 non-null   float64
9  corruption         158 non-null   float64
10 Generosity        158 non-null   float64
11 dystopia_residual 158 non-null   float64
dtypes: float64(9), int64(1), object(2)
memory usage: 14.9+ KB
```

Checking for null values

In [13]:

```
df.isnull().sum()
```

Out[13]:

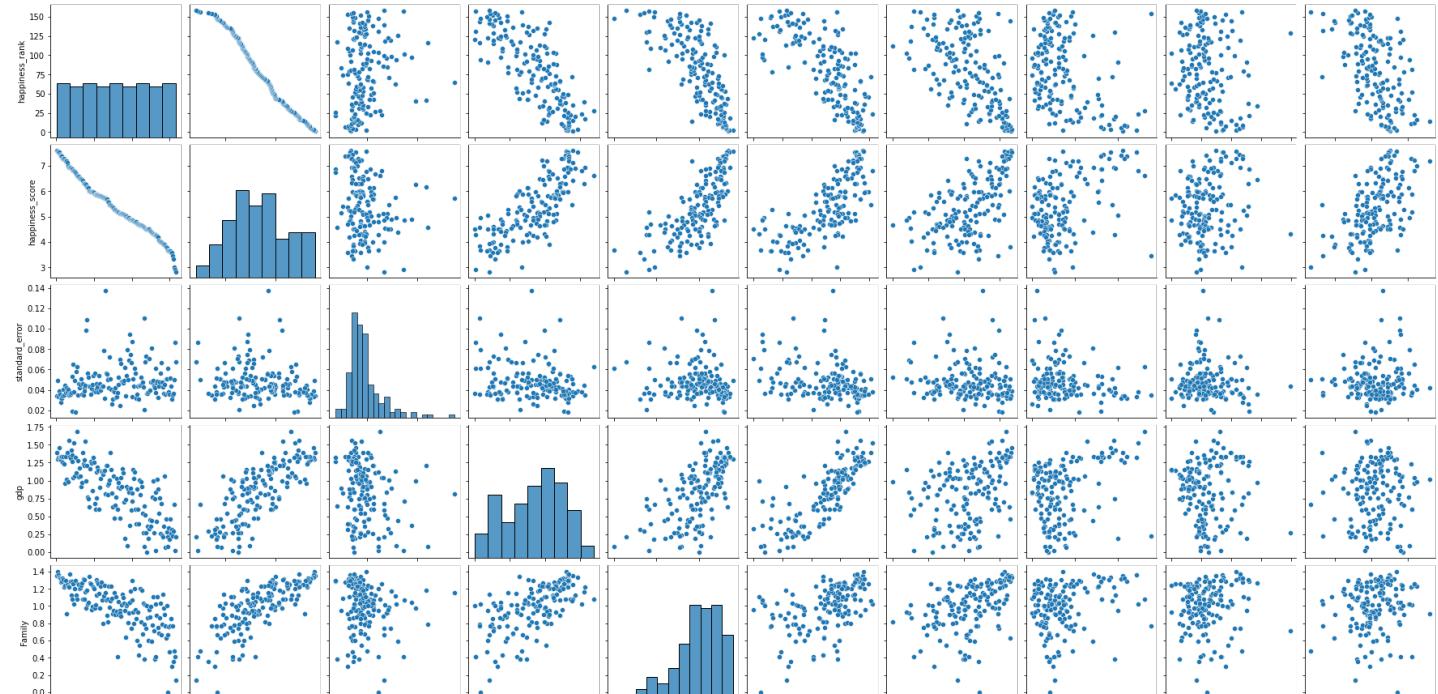
```
Country          0
Region           0
happiness_rank  0
happiness_score 0
standard_error   0
gdp              0
Family            0
life              0
Freedom           0
corruption         0
Generosity        0
dystopia_residual 0
dtype: int64
```

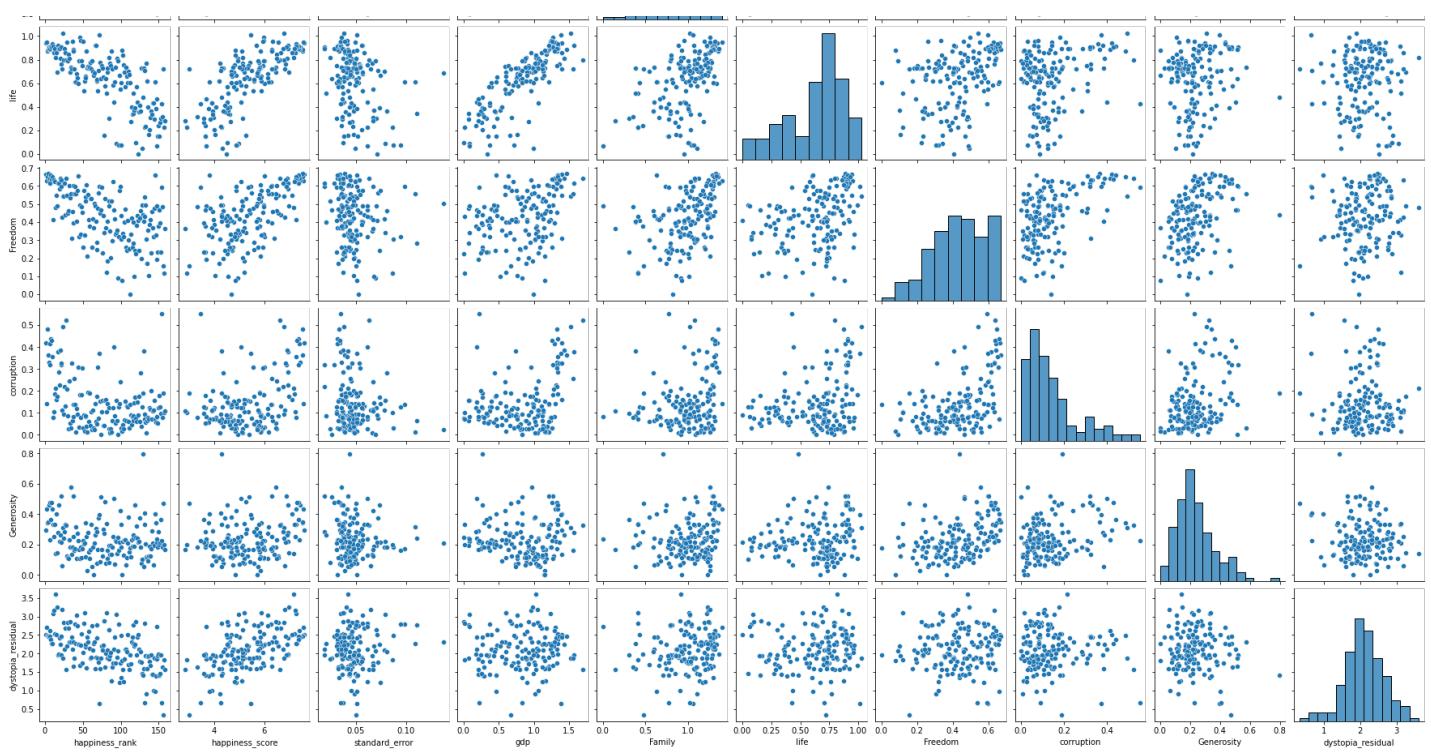
No null values observed

In [15]:

```
#Checking relationship
import matplotlib.pyplot as plt
import seaborn as sns

sns.pairplot(df)
plt.savefig('HappinessPairplot.png')
plt.show()
```





In [16]:

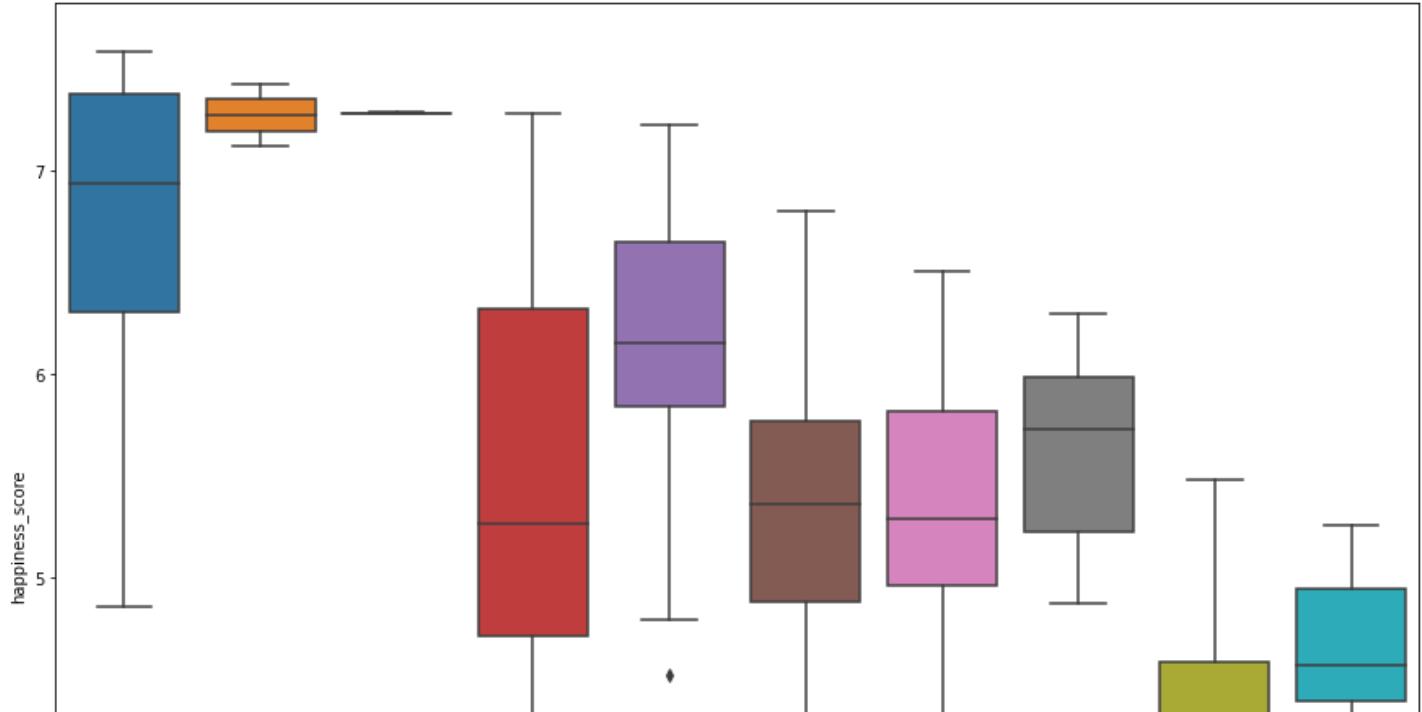
```
#region wise happiness score
```

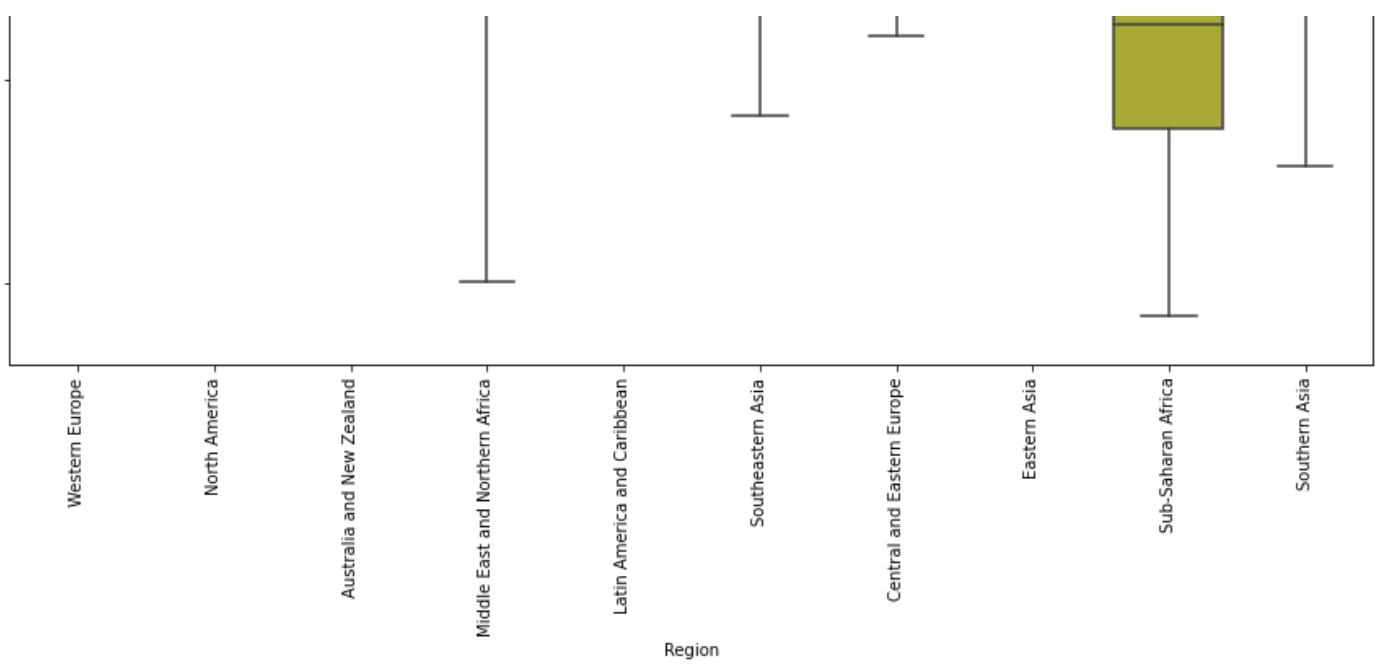
In [21]:

```
plt.figure(figsize = (15,12))
sns.boxplot(x='Region', y = 'happiness_score', data=df)
plt.xticks(rotation='vertical')
```

Out[21]:

```
(array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9]),
 [Text(0, 0, 'Western Europe'),
 Text(1, 0, 'North America'),
 Text(2, 0, 'Australia and New Zealand'),
 Text(3, 0, 'Middle East and Northern Africa'),
 Text(4, 0, 'Latin America and Caribbean'),
 Text(5, 0, 'Southeastern Asia'),
 Text(6, 0, 'Central and Eastern Europe'),
 Text(7, 0, 'Eastern Asia'),
 Text(8, 0, 'Sub-Saharan Africa'),
 Text(9, 0, 'Southern Asia')])
```





In [32]:

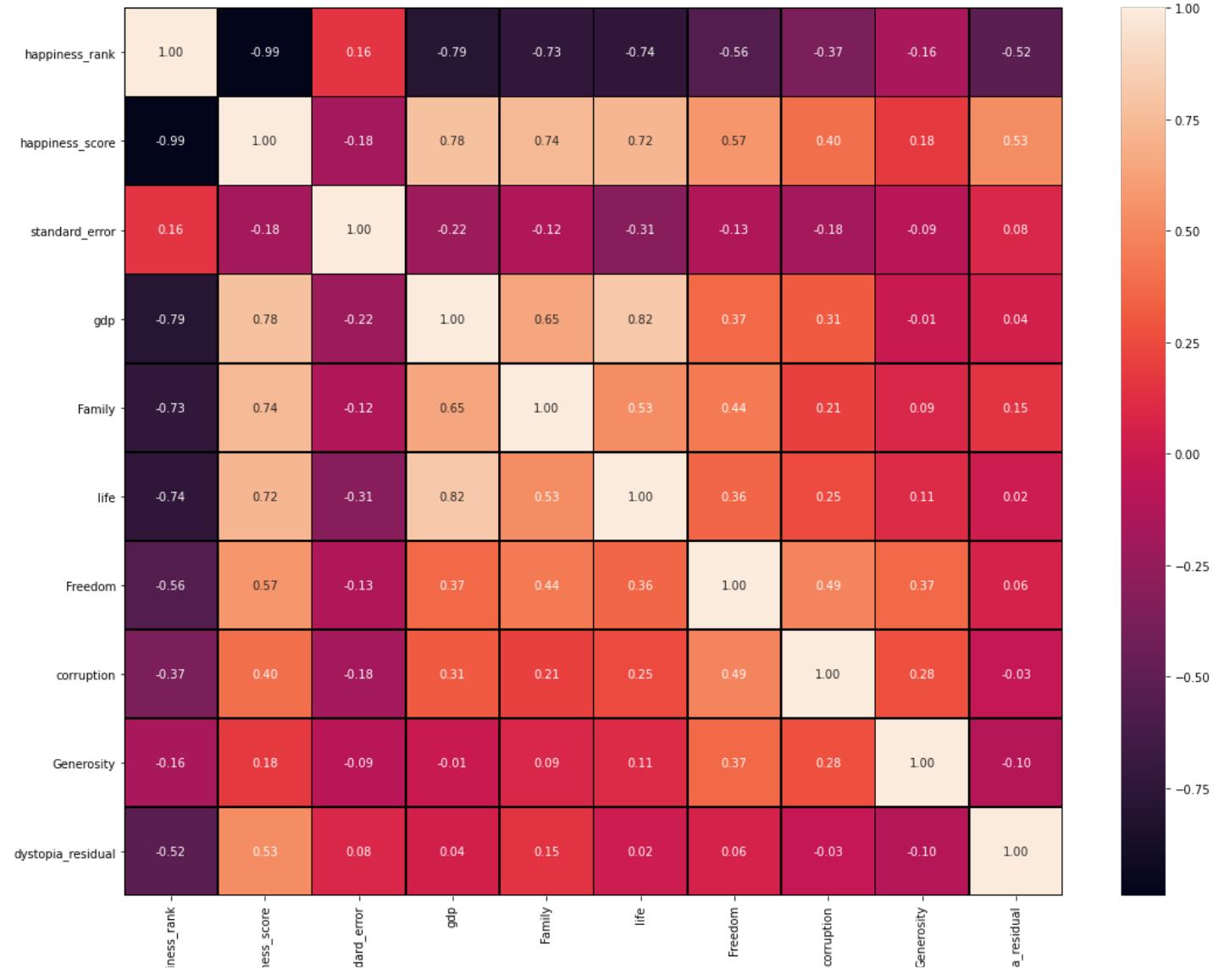
```
col= df.columns
```

In [34]:

```
plt.figure(figsize=(18,14))
sns.heatmap(df.corr(), annot=True, linewidth=0.7, linecolor='black', fmt='.2f')
```

Out [34]:

<AxesSubplot:>



In [41]:

df.columns

Out[41]:

```
Index(['Country', 'Region', 'happiness_rank', 'happiness_score',
       'standard_error', 'gdp', 'Family', 'life', 'Freedom', 'corruption',
       'Generosity', 'dystopia_residual'],
      dtype='object')
```

In [43]:

df = df.drop (columns = ['Country', 'Region', 'happiness_rank'])

In [44]:

df

Out[44]:

	happiness_score	standard_error	gdp	Family	life	Freedom	corruption	Generosity	dystopia_residual
0	7.587	0.03411	1.39651	1.34951	0.94143	0.66557	0.41978	0.29678	2.51738
1	7.561	0.04884	1.30232	1.40223	0.94784	0.62877	0.14145	0.43630	2.70201
2	7.527	0.03328	1.32548	1.36058	0.87464	0.64938	0.48357	0.34139	2.49204
3	7.522	0.03880	1.45900	1.33095	0.88521	0.66973	0.36503	0.34699	2.46531
4	7.427	0.03553	1.32629	1.32261	0.90563	0.63297	0.32957	0.45811	2.45176
...
153	3.465	0.03464	0.22208	0.77370	0.42864	0.59201	0.55191	0.22628	0.67042
154	3.340	0.03656	0.28665	0.35386	0.31910	0.48450	0.08010	0.18260	1.63328
155	3.006	0.05015	0.66320	0.47489	0.72193	0.15684	0.18906	0.47179	0.32858
156	2.905	0.08658	0.01530	0.41587	0.22396	0.11850	0.10062	0.19727	1.83302
157	2.839	0.06727	0.20868	0.13995	0.28443	0.36453	0.10731	0.16681	1.56726

158 rows × 9 columns

In [45]:

```
#cheking the Z-score
from scipy.stats import zscore
z = np.abs(zscore(df))
z
```

Out[45]:

```
array([[1.93736005, 0.80592569, 1.36962124, ..., 2.30965159, 0.47103971,
       0.75825809],
       [1.91458063, 0.05588945, 1.13522625, ..., 0.01647953, 1.57585637,
       1.09285682],
       [1.88479215, 0.8544869 , 1.19286069, ..., 2.8427738 , 0.8242928 ,
       0.71233526],
       ...,
       [2.0761992 , 0.13253425, 0.45524543, ..., 0.38141902, 1.85689094,
       3.20843049],
       [2.1646885 , 2.26396166, 2.06756644, ..., 0.35771452, 0.31694987,
       0.48198451],
       [2.22251319, 1.13418227, 1.58633379, ..., 0.30180313, 0.5581534 ,
       0.96361241]])
```

In [47]:

df_new = df[(z<3).all(axis=1)]

```
df_new
```

```
Out[47]:
```

	happiness_score	standard_error	gdp	Family	life	Freedom	corruption	Generosity	dystopia_residual
0	7.587	0.03411	1.39651	1.34951	0.94143	0.66557	0.41978	0.29678	2.51738
1	7.561	0.04884	1.30232	1.40223	0.94784	0.62877	0.14145	0.43630	2.70201
2	7.527	0.03328	1.32548	1.36058	0.87464	0.64938	0.48357	0.34139	2.49204
3	7.522	0.03880	1.45900	1.33095	0.88521	0.66973	0.36503	0.34699	2.46531
4	7.427	0.03553	1.32629	1.32261	0.90563	0.63297	0.32957	0.45811	2.45176
...
150	3.655	0.05141	0.46534	0.77115	0.15185	0.46866	0.17922	0.20165	1.41723
151	3.587	0.04324	0.25812	0.85188	0.27125	0.39493	0.12832	0.21747	1.46494
152	3.575	0.03084	0.31982	0.30285	0.30335	0.23414	0.09719	0.36510	1.95210
154	3.340	0.03656	0.28665	0.35386	0.31910	0.48450	0.08010	0.18260	1.63328
156	2.905	0.08658	0.01530	0.41587	0.22396	0.11850	0.10062	0.19727	1.83302

```
149 rows x 9 columns
```

```
In [48]:
```

```
#separating x and y
```

```
In [49]:
```

```
x = df_new.iloc[:, :-1]  
y = df_new.iloc[:, -1]
```

```
In [50]:
```

```
#building the model
```

```
In [51]:
```

```
from sklearn.model_selection import train_test_split  
from sklearn.linear_model import LinearRegression  
reg = LinearRegression()  
from sklearn.metrics import mean_squared_error, mean_absolute_error, r2_score
```

```
In [52]:
```

```
for i in range(0, 1000):  
    x_train, x_test, y_train, y_test = train_test_split(x, y, random_state=i, test_size=0.20)  
    reg.fit(x_train, y_train)  
    print("At random state", i, "the model performs very well")  
    print("At random state", i)  
    print("Training score is\n", reg.score(x_train, y_train))  
    pred_test = reg.predict(x_test)  
    print(f"Predicted value is {pred_test} and Actual value is {y_test.tolist()}\n")  
    print('Mean absolute error:- ', mean_absolute_error(y_test, pred_test))  
    print('Mean squared error:- ', mean_squared_error(y_test, pred_test))  
    print('Root mean squared error:- ', np.sqrt(mean_squared_error(y_test, pred_test)))  
    print('r2 Score:- ', r2_score(y_test, pred_test))  
    print('*'*80, '\n')
```

```
At random state 0 the model performs very well
```

```
At random state 0
```

```
Training score is
```

```
0.999999724860796
```

```
Predicted value is [1.68158908 1.71929478 2.75455046 1.86000348 2.37156273 2.04403989
```

```
1.38098033 1.73802213 2.50990663 1.26500984 2.43858474 2.22004609
```

```
2.32379144 2.84825693 1.87662221 1.79313662 2.4421728 2.23233158
```

```
1.96944673 2.53920277 2.7427805 2.26423579 1.62260271 3.19110345
```

1.59863228 1.21361905 3.05123198 2.67618208 1.68431611 1.95845986] and Actual value is [1.68135, 1.7195599999999998, 2.75414, 1.8604, 2.3711900000000004, 2.0438400000000003, 1.38079, 1.7379900000000001, 2.51009, 1.26462, 2.43872, 2.21978, 2.32407, 2.84848, 1.876340000000001, 1.79293, 2.44191, 2.2327, 1.9696099999999999, 2.5394200000000002, 2.74255, 2.26425, 1.62215, 3.191309999999996, 1.5988799999999999, 1.21305, 3.05137, 2.67585, 1.68435, 1.95812]

Mean absolute error:- 0.0002549221278078884

Mean squared error:- 8.014890669039608e-08

Root mean squared error:- 0.00028310582242404707

r2 Score:- 0.999996963037855

At random state 1 the model performs very well

At random state 1

Training score is

0.999997420953096

Predicted value is [1.46506448 1.73928384 2.32377126 3.10733036 1.26494816 2.51769487

1.89858467 2.44689596 2.22002807 2.75460729 2.61949149 1.96935647

2.79886721 2.50956828 1.88496956 2.43858049 2.23233539 2.67779611

1.86967914 1.64829775 2.11815237 1.4171702 2.85764883 1.92342399

2.44223576 2.24705826 2.24712664 2.82365561 3.0513219 2.11354202] and Actual value is [

1.46494, 1.7393299999999998, 2.32407, 3.1070900000000004, 1.26462, 2.51767, 1.89894, 2.446490000000003, 2.21978, 2.75414, 2.61955, 1.9696099999999999, 2.79832, 2.51011, 1.88540999999998, 2.43872, 2.2327, 2.67782, 1.8698400000000002, 1.6488, 2.11773, 1.41723, 2.85737, 1.92313, 2.44191, 2.24743, 2.24729, 2.82334, 3.05137, 2.1139900000000003]

Mean absolute error:- 0.0002766499703854934

Mean squared error:- 1.0164543788422839e-07

Root mean squared error:- 0.00031881881670351326

r2 Score:- 0.999995469344826

At random state 2 the model performs very well

At random state 2

Training score is

0.999997158150012

Predicted value is [2.8670049 2.82364742 2.46515148 2.24630573 0.67139405 2.84827591

1.95295921 2.53340692 1.95074774 1.38092625 2.61952907 2.32376969

0.89943332 1.64837591 1.92340624 1.93113908 2.11558874 2.10995633

2.80741335 1.99177318 1.87967749 1.21357585 2.754568 2.44685175

2.49200071 2.23768229 2.76613021 2.06386743 1.88522944 2.53921151] and Actual value is [

2.86712, 2.82334, 2.4653099999999997, 2.2463900000000003, 0.67108, 2.84848, 1.95335, 2.5332, 1.95071, 1.38079, 2.61955, 2.32407, 0.89991, 1.6488, 1.92313, 1.931290000000002, 2.115690000000003, 2.11032, 2.807909999999997, 1.991720000000002, 1.8799599999999999, 1.21305, 2.75414, 2.446490000000003, 2.492040000000003, 2.237409999999997, 2.76579, 2.06367, 1.8850099999999999, 2.5394200000000002]

Mean absolute error:- 0.00024981149343546264

Mean squared error:- 8.256597905194317e-08

Root mean squared error:- 0.0002873429641594573

r2 Score:- 0.999997344985505

At random state 3 the model performs very well

At random state 3

Training score is

0.999997062979709

Predicted value is [1.57030945 2.74277463 2.46514599 2.44688242 2.02496301 3.26050076

2.4655687 2.44222762 2.23233455 2.10999452 1.38092281 2.11558371

2.79066999 2.45367504 2.80740519 1.73924732 2.27544089 2.0008137

2.23770893 0.8993821 1.7931385 2.85763244 2.61956026 2.11355616

0.6543845 1.88496941 2.7661379 3.10729933 2.50958807 2.84825914] and Actual value is [

1.57059, 2.74255, 2.4653099999999997, 2.4464900000000003, 2.0251799999999998, 3.26001, 2.4657, 2.44191, 2.2327, 2.11032, 1.38079, 2.115690000000003, 2.79094, 2.4537299999999997,

2.807909999999997, 1.739329999999998, 2.27513, 2.00073, 2.237409999999997, 0.89991, 1.79293, 2.85737, 2.61955, 2.113990000000003, 0.6542899999999999, 1.8854099999999998, 2.76579, 3.107090000000004, 2.51011, 2.84848]

Mean absolute error:- 0.00026774497846047127

Mean squared error:- 9.278680701637693e-08

Root mean squared error:- 0.00030460926941965657

r2 Score:- 0.9999997314812209

At random state 4 the model performs very well

At random state 4

Training score is

0.9999997554198177

Predicted value is [2.11547434 3.17756496 2.23772657 2.30870577 2.53331141 2.12371053

1.58825763 2.61951188 1.85996417 2.02494391 1.78523246 2.41446086

2.50950195 2.02486831 1.63323415 2.49199178 2.67773223 2.43249743

2.67615166 2.48663172 2.76613231 2.84822915 1.68157188 2.24705152

1.95853734 1.96935703 1.96960309 2.51768589 1.64828365 1.83356402] and Actual value is [

2.1156900000000003, 3.17728, 2.2374099999999997, 2.30919, 2.5332, 2.12367, 1.58782, 2.619

55, 1.8604, 2.025179999999998, 1.78555, 2.4148400000000003, 2.51011, 2.025, 1.6332799999

999998, 2.4920400000000003, 2.67782, 2.43209, 2.67585, 2.48676, 2.76579, 2.84848, 1.68135

, 2.24743, 1.95812, 1.9696099999999999, 1.9699400000000002, 2.51767, 1.6488, 1.83302]

Mean absolute error:- 0.00027778882783429846

Mean squared error:- 1.0398118168638466e-07

Root mean squared error:- 0.0003224611320552985

r2 Score:- 0.9999993503592207

At random state 5 the model performs very well

At random state 5

Training score is

0.9999997518386489

Predicted value is [1.95074037 1.78523603 1.9311542 2.24635706 1.57166862 2.13140459

2.70218942 1.58831187 2.11563039 1.8510501 1.92339147 2.24178718

1.84412925 2.09031361 2.67618787 1.88525558 1.75872973 2.11352248

2.4750026 2.53344741 1.86430201 1.86613693 2.82363665 2.20147834

2.10994213 2.4484167 1.46504498 2.45366044 2.27417077 1.88960289] and Actual value is [

1.95071, 1.78555, 1.9312900000000002, 2.2463900000000003, 1.5714, 2.1309, 2.70201, 1.5878

2, 2.1156900000000003, 1.851, 1.92313, 2.24173, 1.84408, 2.0906599999999997, 2.67585, 1.8

8500999999999999, 1.75873, 2.1139900000000003, 2.4748900000000003, 2.5332, 1.86399, 1.8656

5, 2.82334, 2.20173, 2.11032, 2.44876, 1.46494, 2.4537299999999997, 2.27394, 1.8893099999

99998]

Mean absolute error:- 0.0002319810686917482

Mean squared error:- 7.627593911387237e-08

Root mean squared error:- 0.00027618098977640076

r2 Score:- 0.9999993359343432

At random state 6 the model performs very well

At random state 6

Training score is

0.9999997589717579

Predicted value is [1.46190025 1.9525143 2.49204178 1.88531636 1.95589299 2.43243146

1.78517238 2.59438797 1.83335567 1.61619101 2.8932699 2.10993056

3.03482166 1.95837609 2.08476826 1.59898354 1.57035818 1.59579624

1.87670565 2.31972148 2.27410292 2.23222822 2.20787576 2.51752334

2.32370886 2.02478856 2.63445057 1.34726779 2.32132238 2.05114193] and Actual value is [

1.46181, 1.9521, 2.4920400000000003, 1.8850099999999999, 1.9563700000000002, 2.43209, 1.7

8555, 2.5945, 1.83302, 1.6158299999999999, 2.89319, 2.11032, 3.035, 1.95812, 2.08528, 1.5

9927, 1.57059, 1.59541, 1.8763400000000001, 2.31945, 2.27394, 2.2327, 2.20857, 2.51737999

99999997, 2.32407, 2.025, 2.6343, 1.34759, 2.3214200000000003, 2.05125]

Mean absolute error:- 0.00028326561353920386

Mean squared error:- 1.0333620915829971e-07

Root mean squared error:- 0.00032145949847266875

r2 Score:- 0.9999993811475686

At random state 7 the model performs very well

At random state 7

Training score is

0.9999997137167982

Predicted value is [1.83345387 1.26502044 2.7428701 1.86963063 1.69489905 2.23769322

1.61627352 1.21363716 3.17767931 2.24710317 3.10732433 1.62257252

2.31993051 1.71919891 2.83596746 1.86438061 1.9529455 0.67149783

1.73828816 1.87656365 1.93117834 1.78531927 1.88967934 2.1180873

0.89942559 0.99840102 2.48660649 1.86001215 1.84420901 0.98190223] and Actual value is [1.83302, 1.26462, 2.74255, 1.8698400000000002, 1.6944, 2.2374099999999997, 1.6158299999999999, 1.21305, 3.17728, 2.24729, 3.1070900000000004, 1.62215, 2.31945, 1.7195599999999998, 2.8360000000000003, 1.86399, 1.95335, 0.67108, 1.73797, 1.8763400000000001, 1.93129000000002, 1.78555, 1.8893099999999998, 2.11773, 0.89991, 0.99895, 2.48676, 1.8604, 1.84408, 0.98195]

Mean absolute error:- 0.00032897258811521725
Mean squared error:- 1.2855024863583592e-07
Root mean squared error:- 0.00035853904757478775
r2 Score:- 0.999996426934836

At random state 8 the model performs very well

At random state 8

Training score is

0.999997300988687

Predicted value is [2.45186782 2.67777293 2.21126151 2.76609813 1.21365424 2.12377873 1.88527691 1.41718659 1.94932505 2.00079141 1.95072945 2.3213468 1.38096786 2.18866297 2.44843545 1.42786861 1.46507411 2.80737416 1.5883122 1.57037556 1.61624983 2.70215113 1.83340835 2.4536354 1.34736248 2.5175116 1.99174388 2.46516763 1.97549279 2.20795818] and Actual value is [2.4517599999999997, 2.67782, 2.21126, 2.76579, 1.21305, 2.12367, 1.8850099999999999, 1.41723, 1.9493900000000002, 2.00073, 1.95071, 2.3214200000000003, 1.38079, 2.18896, 2.44876, 1.42766, 1.46494, 2.8079099999999997, 1.58782, 1.57059, 1.6158299999999999, 2.70201, 1.83302, 2.4537299999999997, 1.34759, 2.5173799999999997, 1.9917200000000002, 2.4653099999999997, 1.9757, 2.20857]

Mean absolute error:- 0.00021599300014141972
Mean squared error:- 7.659190815203504e-08
Root mean squared error:- 0.00027675243115830986
r2 Score:- 0.999996426160979

At random state 9 the model performs very well

At random state 9

Training score is

0.999997131531577

Predicted value is [2.00081618 1.73932854 1.42787583 2.12506156 1.46180466 1.87662152 2.67617738 2.46514948 1.57172249 2.2664599 2.11559972 1.8642859 2.48663552 3.05122176 3.03485175 1.86002808 2.85763435 0.98170758 1.2412522 2.02505583 2.83599255 2.2112607 2.30870829 1.96972657 2.44692002 1.63811828 1.68435258 1.58832547 2.26421731 1.62263751] and Actual value is [2.00073, 1.7393299999999998, 1.42766, 2.12466, 1.46181, 1.8763400000000001, 2.67585, 2.4653099999999997, 1.5714, 2.26646, 2.1156900000000003, 1.86399, 2.48676, 3.05137, 3.035, 1.8604, 2.85737, 0.98195, 1.24074, 2.0251799999999998, 2.8360000000000003, 2.21126, 2.30919, 1.9699400000000002, 2.4464900000000003, 1.63794, 1.68435, 1.58782, 2.26425, 1.62215]

Mean absolute error:- 0.0002154804190657944
Mean squared error:- 7.399913768028503e-08
Root mean squared error:- 0.000272027825194933
r2 Score:- 0.999997229906074

At random state 10 the model performs very well

At random state 10

Training score is

0.999997410223169

Predicted value is [2.63443096 1.79315409 3.08882488 2.10996428 1.61625066 2.13137763 1.88500909 2.02482478 3.03483936 1.63327786 1.4650932 1.85107886 1.86968909 2.70214183 2.24707386 1.95287483 1.93108687 2.79066426 2.47492835 1.64839368 2.08473202 2.50990406 2.44684388 2.84827369 1.76140039 2.49198592 1.26501455 1.38097169 1.80037346 1.62255373] and Actual value is [2.6343, 1.79293, 3.08854, 2.11032, 1.6158299999999999, 2.1309, 1.8854099999999998, 2.025, 3.035, 1.6332799999999998, 1.46494, 1.851, 1.8698400000000002, 2.70201, 2.24743, 1.95335, 1.9312900000000002, 2.79094, 2.4748900000000003, 1.6488, 2.08528, 2.51009, 2.4464900000000003, 2.84848, 1.76145, 2.4920400000000003, 1.26462, 1.38079, 1.8010999999999998, 1.62215]

Mean absolute error:- 0.0002638927902363974
Mean squared error:- 9.561983378727133e-08
Root mean squared error:- 0.0003092245685376104

r2 Score:- 0.9999995993370956

At random state 11 the model performs very well

At random state 11

Training score is

0.9999997171069285

Predicted value is [2.44223298 1.63814051 1.44422698 2.13141412 2.30873979 2.26648204

2.76614833 3.26049011 2.32135014 1.88956532 2.45367142 1.5985953

2.02487788 2.27544361 1.87881816 2.23774652 2.11359395 1.86972069

3.05125791 1.8511217 1.58829992 2.49204854 3.1911352 2.24714027

2.53342577 3.17763784 1.38099009 1.6815341 1.9694332 1.26500225] and Actual value is [

2.44191, 1.63794, 1.44395, 2.1309, 2.30919, 2.26646, 2.76579, 3.26001, 2.32142000000000003

, 1.8893099999999998, 2.4537299999999997, 1.5988799999999999, 2.025, 2.27513, 1.87877, 2.

2374099999999997, 2.1139900000000003, 1.8698400000000002, 3.05137, 1.851, 1.58782, 2.4920

400000000003, 3.191309999999996, 2.24729, 2.5332, 3.17728, 1.38079, 1.68135, 1.969609999

9999999, 1.26462]

Mean absolute error:- 0.00024010388672218347

Mean squared error:- 7.810550768421046e-08

Root mean squared error:- 0.00027947362609772404

r2 Score:- 0.999997216080599

At random state 12 the model performs very well

At random state 12

Training score is

0.999996856328135

Predicted value is [2.74279767 1.46505549 2.7907064 1.57032224 1.94269038 1.95596095

1.63322815 3.03483005 1.42787153 1.88522654 1.86969418 1.96943053

2.85763828 2.47496861 2.18867966 2.80737912 1.95288783 2.27409647

2.46559896 2.08472652 2.70217223 2.20150371 0.67142337 1.87965999

2.84827236 1.41715589 3.10717783 3.05120978 3.17762245 2.23773728] and Actual value is [

2.74255, 1.46494, 2.79094, 1.57059, 1.9429599999999998, 1.9563700000000002, 1.63327999999

99998, 3.035, 1.42766, 1.8850099999999999, 1.8698400000000002, 1.9696099999999999, 2.8573

7, 2.4748900000000003, 2.18896, 2.8079099999999997, 1.95335, 2.27394, 2.4657, 2.08528, 2.

70201, 2.20173, 0.67108, 1.8799599999999999, 2.84848, 1.41723, 3.1070900000000004, 3.0513

7, 3.17728, 2.237409999999997]

Mean absolute error:- 0.000239368496293139

Mean squared error:- 7.342203133739736e-08

Root mean squared error:- 0.000270965000207402

r2 Score:- 0.999997964770262

At random state 13 the model performs very well

At random state 13

Training score is

0.99999728999138

Predicted value is [2.59442315 2.43246395 2.47498403 1.84415021 2.27549484 2.4385601

1.42785095 1.46182439 1.73831759 3.05121006 1.87880952 1.68160047

2.10995592 2.22004674 2.2417861 2.32132647 1.9507702 2.04404374

1.89861236 2.26417317 1.8796997 3.26045861 1.9754355 1.9234464

1.26502629 1.99181475 2.50959323 2.50991057 1.88957982 1.79313699] and Actual value is [

2.5945, 2.43209, 2.4748900000000003, 1.84408, 2.27513, 2.43872, 1.42766, 1.46181, 1.73797

, 3.05137, 1.87877, 1.68135, 2.11032, 2.21978, 2.24173, 2.321420000000003, 1.95071, 2.04

38400000000003, 1.89894, 2.26425, 1.8799599999999999, 3.26001, 1.9757, 1.92313, 1.26462,

1.991720000000002, 2.51011, 2.51009, 1.889309999999998, 1.79293]

Mean absolute error:- 0.00021851187374372454

Mean squared error:- 6.558520711220246e-08

Root mean squared error:- 0.00025609608960740194

r2 Score:- 0.999996501355966

At random state 14 the model performs very well

At random state 14

Training score is

0.999997439986599

Predicted value is [2.84825174 2.24624115 2.46558429 2.44676813 2.20785073 1.88502668

2.74279417 1.34727827 1.88528643 2.48650463 1.69490056 2.41450283

2.125134 1.38088812 1.96971694 1.73926262 2.67776178 2.27560141

1.63339527 1.73801871 2.61951844 3.19104418 2.37155182 2.32374701
2.2200548 1.95294257 2.49198934 2.06383407 1.86963409 2.02494052] and Actual value is [
2.84848, 2.2463900000000003, 2.4657, 2.4464900000000003, 2.20857, 1.8854099999999998, 2.7
4255, 1.34759, 1.8850099999999999, 2.48676, 1.6944, 2.4148400000000003, 2.12466, 1.38079,
1.9699400000000002, 1.7393299999999998, 2.67782, 2.27513, 1.6332799999999998, 1.737990000
000001, 2.61955, 3.1913099999999996, 2.3711900000000004, 2.32407, 2.21978, 1.95335, 2.49
20400000000003, 2.06367, 1.8698400000000002, 2.0251799999999998]

Mean absolute error:- 0.0002553224356190024

Mean squared error:- 8.99304289865554e-08

Root mean squared error:- 0.00029988402589427033

r2 Score:- 0.9999994967889639

At random state 15 the model performs very well

At random state 15

Training score is

0.9999997447946223

Predicted value is [2.82367837 1.89858937 0.65457152 1.59572628 2.11554958 2.46554689
2.79886556 1.86611924 2.20795303 1.57162415 2.44213307 2.02493086
1.93117886 2.23231649 1.95076346 2.08472333 2.2664798 1.46507523
2.20149144 2.75450114 1.21371932 2.59438943 1.26504944 2.61952989
2.48669226 1.24122687 1.59891494 1.86000119 2.5175013 1.942681] and Actual value is [
2.82334, 1.89894, 0.6542899999999999, 1.59541, 2.1156900000000003, 2.4657, 2.79832, 1.865
65, 2.20857, 1.5714, 2.44191, 2.0251799999999998, 1.9312900000000002, 2.2327, 1.95071, 2.
08528, 2.26646, 1.46494, 2.20173, 2.75414, 1.21305, 2.5945, 1.26462, 2.61955, 2.48676, 1.
24074, 1.59927, 1.8604, 2.5173799999999997, 1.9429599999999998]

Mean absolute error:- 0.0002902072799518929

Mean squared error:- 1.1543235351875958e-07

Root mean squared error:- 0.0003397533716076407

r2 Score:- 0.9999995752318598

At random state 16 the model performs very well

At random state 16

Training score is

0.9999997324816601

Predicted value is [2.1313649 2.319854 2.18867435 3.10732431 1.88961137 2.53919372
1.63816772 2.677762 2.02500694 1.21356421 2.09027405 1.63325844
1.95072163 2.26651735 1.44418083 2.44681374 2.3715989 2.67619904
1.69486247 2.1100674 3.03483076 2.24630401 2.50987726 1.7192585
2.24710589 1.57038284 2.00077738 1.42785046 1.59898464 2.51752159] and Actual value is [
2.1309, 2.31945, 2.18896, 3.107090000000004, 1.8893099999999998, 2.5394200000000002, 1.6
3794, 2.67782, 2.0251799999999998, 1.21305, 2.0906599999999997, 1.6332799999999998, 1.950
71, 2.26646, 1.44395, 2.4464900000000003, 2.3711900000000004, 2.67585, 1.6944, 2.11032, 3
.035, 2.2463900000000003, 2.51009, 1.7195599999999998, 2.24729, 1.57059, 2.00073, 1.42766
, 1.59927, 2.5173799999999997]

Mean absolute error:- 0.00024063654467523972

Mean squared error:- 7.580379225163785e-08

Root mean squared error:- 0.00027532488491169456

r2 Score:- 0.9999996463911038

At random state 17 the model performs very well

At random state 17

Training score is

0.9999997236084522

Predicted value is [1.73927397 2.27549466 2.63442053 2.24711937 2.82364669 2.20788776
1.42780589 1.96942843 1.63329601 1.71925087 1.26500055 2.59441038
2.20151712 1.87660811 2.12507748 2.44846952 1.41715331 2.80743156
1.88502629 1.86965369 1.93113331 3.10728463 2.51748626 2.232325
1.63809971 2.83596792 1.95073187 3.17762061 2.26645315 2.67779563] and Actual value is [
1.7393299999999998, 2.27513, 2.6343, 2.24743, 2.82334, 2.20857, 1.42766, 1.969609999999999
99, 1.6332799999999998, 1.7195599999999998, 1.26462, 2.5945, 2.20173, 1.8763400000000001,
2.12466, 2.44876, 1.41723, 2.8079099999999997, 1.8854099999999998, 1.8698400000000002, 1.
9312900000000002, 3.1070900000000004, 2.5173799999999997, 2.2327, 1.63794, 2.836000000000000
003, 1.95071, 3.17728, 2.26646, 2.67782]

Mean absolute error:- 0.00022318927276268052

Mean squared error:- 7.533870716706333e-08

Root mean squared error:- 0.0002744789739981249

r2 Score:- 0.9999996925387877

At random state 18 the model performs very well

At random state 18

Training score is

0.9999997483052777

Predicted value is [2.2418562 2.11353749 2.84825818 0.9817231 1.85994706 2.41447529

1.68421428 1.97545312 0.99835726 1.84410309 2.08470095 1.42782225

2.43849244 2.13131206 2.30871744 2.46558584 1.59852628 2.09022409

1.95289871 2.27402223 0.89930967 2.20792437 2.53917281 2.517474

2.86705252 2.32129656 2.45186701 1.83337446 2.7661287 3.05126592] and Actual value is [

2.24173, 2.1139900000000003, 2.84848, 0.98195, 1.8604, 2.4148400000000003, 1.68435, 1.975

7, 0.99895, 1.84408, 2.08528, 1.42766, 2.43872, 2.1309, 2.30919, 2.4657, 1.598879999999999

99, 2.0906599999999997, 1.95335, 2.27394, 0.89991, 2.20857, 2.5394200000000002, 2.5173799

999999997, 2.86712, 2.3214200000000003, 2.4517599999999997, 1.83302, 2.76579, 3.05137]

Mean absolute error:- 0.0002938870127812983

Mean squared error:- 1.1885002371540579e-07

Root mean squared error:- 0.00034474631791421036

r2 Score:- 0.9999995805509718

At random state 19 the model performs very well

At random state 19

Training score is

0.9999997615622074

Predicted value is [2.49200025 1.69497735 2.1100099 1.59902867 2.21116869 2.37155992

2.26422763 1.8766239 1.95268039 1.63339345 1.71925085 1.88530499

2.08478535 2.32127948 1.38090906 2.0998041 1.44413029 2.50965471

2.24624169 2.41448107 1.87962136 2.75459548 2.23227051 2.27403862

2.27564318 1.99190906 1.85110336 3.10747734 1.85999448 1.75871287] and Actual value is [

2.4920400000000003, 1.6944, 2.11032, 1.59927, 2.21126, 2.371190000000004, 2.26425, 1.876

3400000000001, 1.9521, 1.6332799999999998, 1.7195599999999998, 1.8850099999999999, 2.0852

8, 2.3214200000000003, 1.38079, 2.10017, 1.44395, 2.51011, 2.2463900000000003, 2.41484000

00000003, 1.8799599999999999, 2.75414, 2.2327, 2.27394, 2.27513, 1.9917200000000002, 1.85

1, 3.107090000000004, 1.8604, 1.75873]

Mean absolute error:- 0.00028115867601374855

Mean squared error:- 1.0639608247351123e-07

Root mean squared error:- 0.00032618412357671736

r2 Score:- 0.9999992486992852

At random state 20 the model performs very well

At random state 20

Training score is

0.9999997488749495

Predicted value is [2.02485356 2.23232217 2.89324615 0.89932723 1.76140758 1.73921924

1.94274125 2.47499596 1.95287474 2.53337187 1.44417584 2.00076494

2.11811891 1.64831931 2.83594538 2.05117419 3.60187622 1.88497121

2.24183247 1.86604213 2.18863663 1.83342638 2.44219129 1.96965969

2.08470807 2.63451107 1.80030142 2.12368376 2.04399248 1.92340899] and Actual value is [

2.025179999999998, 2.2327, 2.89319, 0.89991, 1.76145, 1.739329999999998, 1.942959999999

998, 2.4748900000000003, 1.95335, 2.5332, 1.44395, 2.00073, 2.11773, 1.6488, 2.836000000

0000003, 2.05125, 3.6021400000000003, 1.8854099999999998, 2.24173, 1.86565, 2.18896, 1.83

302, 2.44191, 1.9699400000000002, 2.08528, 2.6343, 1.8010099999999998, 2.12367, 2.0438400

00000003, 1.92313]

Mean absolute error:- 0.0002718117421317149

Mean squared error:- 1.0642471296537411e-07

Root mean squared error:- 0.00032622800763480454

r2 Score:- 0.9999995372291066

At random state 21 the model performs very well

At random state 21

Training score is

0.9999997195710171

Predicted value is [2.06391878 2.22003361 2.37156521 2.47496391 1.73798861 1.63809244

1.96972062 1.46166802 2.67618925 2.24709825 2.63442954 2.45365178

1.94270083 1.95597745 1.8852592 3.10733019 0.99840546 2.23234621
2.50961107 1.85109618 0.67136561 1.59858058 2.02485542 2.89320072
2.24628239 2.09026649 2.74279666 2.53921378 2.11006243 2.44218011] and Actual value is [
2.06367, 2.21978, 2.3711900000000004, 2.4748900000000003, 1.7379900000000001, 1.63794, 1.
9699400000000002, 1.46181, 2.67585, 2.24743, 2.6343, 2.4537299999999997, 1.942959999999999
98, 1.9563700000000002, 1.8850099999999999, 3.1070900000000004, 0.99895, 2.2327, 2.51011,
1.851, 0.67108, 1.5988799999999999, 2.025, 2.89319, 2.2463900000000003, 2.0906599999999999
7, 2.74255, 2.5394200000000002, 2.11032, 2.44191]

Mean absolute error:- 0.0002400670401011255

Mean squared error:- 7.447660657876984e-08

Root mean squared error:- 0.0002729040244825456

r2 Score:- 0.9999997199980692

At random state 22 the model performs very well

At random state 22

Training score is

0.9999997513087202

Predicted value is [3.08879798 2.20793637 2.32380627 1.80043227 1.88955647 1.95848802
2.48648906 2.80742594 2.43245223 1.64835817 2.04406374 2.50983782
1.59901204 1.57162725 1.68433887 3.10728895 1.58828695 1.59586344
1.83341314 2.24181483 1.73832846 1.38094213 2.32306464 3.0511823
1.85113494 2.49206596 1.95297521 1.95251542 1.75875185 1.73927174] and Actual value is [
3.08854, 2.20857, 2.32407, 1.801009999999998, 1.889309999999998, 1.95812, 2.48676, 2.80
79099999999997, 2.43209, 1.6488, 2.0438400000000003, 2.51009, 1.59927, 1.5714, 1.68435, 3
.1070900000000004, 1.58782, 1.59541, 1.83302, 2.24173, 1.73797, 1.38079, 2.32323, 3.05137
, 1.851, 2.4920400000000003, 1.95335, 1.9521, 1.75873, 1.739329999999998]

Mean absolute error:- 0.00027903418083939554

Mean squared error:- 1.0362125421958488e-07

Root mean squared error:- 0.0003219025539190158

r2 Score:- 0.9999995401083333

At random state 23 the model performs very well

At random state 23

Training score is

0.9999997313402791

Predicted value is [1.87873402 2.80733871 1.76144936 2.46513372 2.20796313 1.61624345
2.41450693 1.44418628 1.9697011 2.43244953 2.23232076 2.32130724
2.11351395 2.24709619 3.08881353 1.79311788 2.24713053 1.88959601
1.95841662 2.83595474 2.86696619 2.53918127 1.73834458 2.49198184
0.98175237 1.97547197 2.22004329 0.67145038 1.63810384 1.58831] and Actual value is [
1.87877, 2.8079099999999997, 1.76145, 2.4653099999999997, 2.20857, 1.6158299999999999, 2.
4148400000000003, 1.44395, 1.9699400000000002, 2.43209, 2.2327, 2.3214200000000003, 2.113
9900000000003, 2.24743, 3.08854, 1.79293, 2.24729, 1.889309999999998, 1.95812, 2.8360000
000000003, 2.86712, 2.5394200000000002, 1.73797, 2.4920400000000003, 0.98195, 1.9757, 2.2
1978, 0.67108, 1.63794, 1.58782]

Mean absolute error:- 0.0002687116723915121

Mean squared error:- 9.472913888199561e-08

Root mean squared error:- 0.0003077809917489961

r2 Score:- 0.9999996593417048

At random state 24 the model performs very well

At random state 24

Training score is

0.9999997446521212

Predicted value is [1.26504009 2.04408106 2.67780439 1.21364218 2.45370138 1.59577017
2.24712742 3.17765544 1.57037914 2.85767025 2.30875608 2.32135354
2.2470675 2.509555841 1.6947608 1.95076322 2.12508067 3.10722823
2.44221717 1.57167184 2.75456398 1.42790882 2.70213667 1.95848411
2.08476128 2.82368821 1.95292534 1.87971119 1.97542778 2.00078827] and Actual value is [
1.26462, 2.0438400000000003, 2.67782, 1.21305, 2.453729999999997, 1.59541, 2.24729, 3.17
728, 1.57059, 2.85737, 2.30919, 2.3214200000000003, 2.24743, 2.51011, 1.6944, 1.95071, 2.
12466, 3.1070900000000004, 2.44191, 1.5714, 2.75414, 1.42766, 2.70201, 1.95812, 2.08528,
2.82334, 1.95335, 1.8799599999999999, 1.9757, 2.00073]

Mean absolute error:- 0.00029025811471739736

Mean squared error:- 1.0813680021344623e-07

Root mean squared error:- 0.0003288416035319227

r2 Score:- 0.9999995879894408

At random state 25 the model performs very well

At random state 25

Training score is

0.999999750634023

Predicted value is [1.59577123 2.2376942 1.87969184 1.3473278 2.11811744 1.8850334
2.32379946 2.1237871 1.58828439 1.94273866 2.47500814 2.67618135
2.46559506 1.86427482 2.05110606 2.76616532 1.6225746 1.92343164
2.2418034 1.6162324 2.27552118 2.43245952 1.96971821 2.85766004
2.83599972 2.20792402 1.46177078 1.41717693 2.74282769 1.7587509] and Actual value is [
1.59541, 2.2374099999999997, 1.8799599999999999, 1.34759, 2.11773, 1.8854099999999998, 2.
32407, 2.12367, 1.58782, 1.9429599999999998, 2.4748900000000003, 2.67585, 2.4657, 1.86399
, 2.05125, 2.76579, 1.62215, 1.92313, 2.24173, 1.6158299999999999, 2.27513, 2.43209, 1.96
99400000000002, 2.85737, 2.8360000000000003, 2.20857, 1.46181, 1.41723, 2.74255, 1.75873]

Mean absolute error:- 0.0002627813246634636

Mean squared error:- 9.111816912247146e-08

Root mean squared error:- 0.0003018578624493181

r2 Score:- 0.999999509693072

At random state 26 the model performs very well

At random state 26

Training score is

0.9999997339508758

Predicted value is [2.85759357 1.58832512 2.47493762 1.63807969 1.73794695 2.09027078
2.80735918 1.96968768 2.18863508 1.94274679 1.24121859 1.86973257
2.4422178 1.92341559 2.49201677 1.38098715 3.05121991 2.51768162
2.70207149 2.41450405 1.75334096 1.57170765 1.99177272 1.87881754
1.95851318 2.50954203 2.67612533 1.68436289 1.59579869 2.32132364] and Actual value is [
2.85737, 1.58782, 2.4748900000000003, 1.63794, 1.7379900000000001, 2.0906599999999997, 2.
8079099999999997, 1.9699400000000002, 2.18896, 1.9429599999999998, 1.24074, 1.86984000000
00002, 2.44191, 1.92313, 2.4920400000000003, 1.38079, 3.05137, 2.51767, 2.70201, 2.414840
0000000003, 1.7536, 1.5714, 1.9917200000000002, 1.87877, 1.95812, 2.51011, 2.67585, 1.684
35, 1.59541, 2.3214200000000003]

Mean absolute error:- 0.0002349945726943951

Mean squared error:- 8.247551663842037e-08

Root mean squared error:- 0.00028718550910242734

r2 Score:- 0.9999996180056749

At random state 27 the model performs very well

At random state 27

Training score is

0.9999997041183792

Predicted value is [1.95590655 2.32308214 0.89939057 2.44842275 2.45363493 2.8932273
1.89856511 2.86695656 3.10727602 2.47503168 1.21359497 1.68159334
2.02495021 3.05124722 1.88501684 1.58824333 2.26648096 1.78520395
1.633234 2.51764496 2.76614336 2.53340653 2.59438418 1.96969094
1.41717552 1.69482392 2.063896 3.10706524 1.5989444 1.75869196] and Actual value is [
1.9563700000000002, 2.32323, 0.89991, 2.44876, 2.4537299999999997, 2.89319, 1.89894, 2.86
712, 3.1070900000000004, 2.4748900000000003, 1.21305, 1.68135, 2.0251799999999998, 3.0513
7, 1.8854099999999998, 1.58782, 2.26646, 1.78555, 1.6332799999999998, 2.51767, 2.76579, 2
.5332, 2.5945, 1.9699400000000002, 1.41723, 1.6944, 2.06367, 3.10712, 1.59927, 1.75873]

Mean absolute error:- 0.00023031197634664212

Mean squared error:- 7.735063620833256e-08

Root mean squared error:- 0.0002781198234724245

r2 Score:- 0.9999997608595284

At random state 28 the model performs very well

At random state 28

Training score is

0.9999997306840349

Predicted value is [2.84828579 1.68158324 2.63450869 2.50958879 2.24188776 2.79887151

1.95076364 1.86969706 2.75459472 1.64831603 1.84414273 3.26051091

2.18864114 2.24712393 0.99845197 2.82368403 2.11816992 1.46177405

1.9525177 1.59854743 2.5174864 2.32307064 2.44685528 1.86422245
2.23234993 3.10717647 2.51774491 1.42784043 2.2664322 1.61614391] and Actual value is [
2.84848, 1.68135, 2.6343, 2.51011, 2.24173, 2.79832, 1.95071, 1.8698400000000002, 2.75414
, 1.6488, 1.84408, 3.26001, 2.18896, 2.24729, 0.99895, 2.82334, 2.11773, 1.46181, 1.9521,
1.5988799999999999, 2.5173799999999997, 2.32323, 2.4464900000000003, 1.86399, 2.2327, 3.1
0712, 2.51767, 1.42766, 2.26646, 1.6158299999999999]

Mean absolute error:- 0.00026619139454568214
Mean squared error:- 9.728239219823046e-08
Root mean squared error:- 0.00031190125392218363
r2 Score:- 0.99999649593599

At random state 29 the model performs very well
At random state 29
Training score is
0.999997395277399

Predicted value is [1.95257819 1.89853235 1.78528185 1.44417057 2.49204443 3.05127281
1.69486343 1.41723299 1.86433623 1.75335373 1.57033453 3.08884628
2.44676494 1.59569077 2.20146341 2.27551873 2.44850174 2.79880184
1.79313784 2.11558549 1.84410603 1.95843929 2.26426817 0.65448431
1.95296932 2.08474462 1.80032469 2.24190184 1.73925569 2.02481497] and Actual value is [
1.9521, 1.89894, 1.78555, 1.44395, 2.4920400000000003, 3.05137, 1.6944, 1.41723, 1.86399,
1.7536, 1.57059, 3.08854, 2.4464900000000003, 1.59541, 2.20173, 2.27513, 2.44876, 2.79832
, 1.79293, 2.1156900000000003, 1.84408, 1.95812, 2.26425, 0.6542899999999999, 1.95335, 2.
08528, 1.801009999999998, 2.24173, 1.739329999999998, 2.025]

Mean absolute error:- 0.0002650222889021355
Mean squared error:- 9.733413735652665e-08
Root mean squared error:- 0.00031198419408124935
r2 Score:- 0.999995859209222

At random state 30 the model performs very well
At random state 30
Training score is
0.999996892766265

Predicted value is [0.65459383 1.46513764 1.41724644 2.30876332 1.7931425 1.62258086
2.84821473 1.99187891 1.96976133 2.79064393 1.6484037 2.26424442
1.44424869 1.26501295 2.70208412 2.61953889 1.34736554 2.48651123
0.67150519 2.51749783 2.27554356 1.95258314 1.6815957 1.76143053
2.49202967 2.31975158 1.87885876 1.59586258 2.08479678 2.86700729] and Actual value is [
0.6542899999999999, 1.46494, 1.41723, 2.30919, 1.79293, 1.62215, 2.84848, 1.9917200000000
002, 1.9699400000000002, 2.79094, 1.6488, 2.26425, 1.44395, 1.26462, 2.70201, 2.61955, 1.
34759, 2.48676, 0.67108, 2.5173799999999997, 2.27513, 1.9521, 1.68135, 1.76145, 2.4920400
000000003, 2.31945, 1.87877, 1.59541, 2.08528, 2.86712]

Mean absolute error:- 0.00024309772358306706
Mean squared error:- 8.293811606019398e-08
Root mean squared error:- 0.0002879897846455564
r2 Score:- 0.999997547549444

At random state 31 the model performs very well
At random state 31
Training score is
0.99999691179968

Predicted value is [2.47498567 2.27539861 3.60188615 1.94269838 1.6225472 2.79882521
1.3473026 2.82365326 3.26047168 2.53922996 1.71923141 0.99841539
2.86704093 1.88957345 1.95846615 1.75334277 2.26424905 1.63808823
2.43246222 2.09981001 1.8787769 1.84416333 2.49204586 1.76144606
2.59440169 2.32306665 1.44416721 0.65448824 1.97547337 2.30872135] and Actual value is [
2.4748900000000003, 2.27513, 3.6021400000000003, 1.9429599999999998, 1.62215, 2.79832, 1.
34759, 2.82334, 3.26001, 2.5394200000000002, 1.7195599999999998, 0.99895, 2.86712, 1.8893
099999999998, 1.95812, 1.7536, 2.26425, 1.63794, 2.43209, 2.10017, 1.87877, 1.84408, 2.49
2040000000003, 1.76145, 2.5945, 2.32323, 1.44395, 0.6542899999999999, 1.9757, 2.30919]

Mean absolute error:- 0.0002399154847994504
Mean squared error:- 8.011966520246856e-08
Root mean squared error:- 0.0002830541736178228
r2 Score:- 0.999997914014115

At random state 32 the model performs very well
At random state 32
Training score is
0.9999997042568088
Predicted value is [2.59439768 3.1910698 2.67616064 2.1313991 1.95845543 1.94937938
1.88529077 2.12379066 1.62260044 2.47496093 2.0008216 2.86704156
2.09024144 1.76140545 1.95252444 2.20795749 1.86970699 1.46176621
1.58829252 3.0888689 2.22006036 1.57166884 1.87878424 2.53341857
3.60184437 1.73795669 1.96946013 0.98175227 2.21125483 3.03482712] and Actual value is [
2.5945, 3.1913099999999996, 2.67585, 2.1309, 1.95812, 1.9493900000000002, 1.8850099999999999
999, 2.12367, 1.62215, 2.4748900000000003, 2.00073, 2.86712, 2.0906599999999997, 1.76145,
1.9521, 2.20857, 1.8698400000000002, 1.46181, 1.58782, 3.08854, 2.21978, 1.5714, 1.87877,
2.5332, 3.6021400000000003, 1.7379900000000001, 1.9696099999999999, 0.98195, 2.21126, 3.0
35]

Mean absolute error:- 0.00022353372514247367
Mean squared error:- 7.682099331384396e-08
Root mean squared error:- 0.00027716600317110316
r2 Score:- 0.9999997593808831

At random state 33 the model performs very well
At random state 33
Training score is
0.9999997313432497
Predicted value is [1.34737108 2.76617246 2.67770918 2.32377739 1.9585502 1.2411818
2.84820019 1.97547373 0.99851161 1.78528042 1.99183047 2.79059796
1.44424579 1.88956201 1.85119653 2.89321904 1.87880533 2.21119838
2.13140303 2.8074118 2.26645369 2.41447267 2.04409825 2.53334438
2.11821682 0.67143117 1.89858278 2.20144168 1.95256949 1.83350509] and Actual value is [
1.34759, 2.76579, 2.67782, 2.32407, 1.95812, 1.24074, 2.84848, 1.9757, 0.99895, 1.78555,
1.9917200000000002, 2.79094, 1.44395, 1.8893099999999998, 1.851, 2.89319, 1.87877, 2.2112
6, 2.1309, 2.8079099999999997, 2.26646, 2.4148400000000003, 2.0438400000000003, 2.5332, 2
.11773, 0.67108, 1.89894, 2.20173, 1.9521, 1.83302]

Mean absolute error:- 0.00028764331742234803
Mean squared error:- 1.0473147762210679e-07
Root mean squared error:- 0.00032362243065354226
r2 Score:- 0.9999996392076715

At random state 34 the model performs very well
At random state 34
Training score is
0.9999997536640134
Predicted value is [1.59565933 2.05102421 2.21126605 2.09028889 1.9559512 2.59440342
3.08891342 2.3198087 1.75330166 1.76139347 2.53344284 1.87968304
2.37161569 1.93110788 2.43865729 2.79878004 2.67619636 2.74277123
1.61619818 2.80734287 2.46521325 2.76617295 2.18866503 1.57168059
1.73836843 2.32376633 2.4325056 3.19115075 2.13143272 2.44692593] and Actual value is [
1.59541, 2.05125, 2.21126, 2.090659999999997, 1.9563700000000002, 2.5945, 3.08854, 2.319
45, 1.7536, 1.76145, 2.5332, 1.8799599999999999, 2.3711900000000004, 1.9312900000000002,
2.43872, 2.79832, 2.67585, 2.74255, 1.6158299999999999, 2.8079099999999997, 2.46530999999
9997, 2.76579, 2.18896, 1.5714, 1.73797, 2.32407, 2.43209, 3.1913099999999996, 2.1309, 2
.4464900000000003]

Mean absolute error:- 0.00029695906737563503
Mean squared error:- 1.0774270008358844e-07
Root mean squared error:- 0.00032824183170886135
r2 Score:- 0.9999994314098565

At random state 35 the model performs very well
At random state 35
Training score is
0.9999997319083229
Predicted value is [2.27548434 1.75332248 1.97547338 2.44846721 2.12508878 1.92339806
1.59900797 2.85764355 2.50988292 1.71928677 1.87875289 1.34733069
2.30874276 2.89325874 2.11812677 2.10996378 3.6019048 1.86427703
2.32132472 1.75873384 2.09981548 1.73831222 2.11561155 1.95072178
3.08889069 1.73928104 2.74279454 2.37156971 2.43246937 2.44688261] and Actual value is [

2.27513, 1.7536, 1.9757, 2.44876, 2.12466, 1.92313, 1.59927, 2.85737, 2.51009, 1.71955999
99999998, 1.87877, 1.34759, 2.30919, 2.89319, 2.11773, 2.11032, 3.6021400000000003, 1.863
99, 2.3214200000000003, 1.75873, 2.10017, 1.73797, 2.1156900000000003, 1.95071, 3.08854,
1.7393299999999998, 2.74255, 2.3711900000000004, 2.43209, 2.4464900000000003]

Mean absolute error:- 0.000253786136442106

Mean squared error:- 8.121020765034624e-08

Root mean squared error:- 0.0002849740473277281

r2 Score:- 0.999996457359457

At random state 36 the model performs very well

At random state 36

Training score is

0.999997422290089

Predicted value is [2.18860888 1.41719276 1.75334232 1.95073214 1.42781816 1.86606731
2.13138982 2.24712286 1.58828186 1.86970221 2.75458979 2.45182266
1.7192741 1.21358293 2.67777342 1.64832191 2.8359709 3.10729685
2.50956605 1.44418036 2.8236418 1.46507294 2.11356118 2.21124405
1.92343163 2.24183863 2.24628549 1.95248431 1.34728379 1.95595611] and Actual value is [
2.18896, 1.41723, 1.7536, 1.95071, 1.42766, 1.86565, 2.1309, 2.24729, 1.58782, 1.86984000
00000002, 2.75414, 2.451759999999997, 1.719559999999998, 1.21305, 2.67782, 1.6488, 2.83
60000000000003, 3.1070900000000004, 2.51011, 1.44395, 2.82334, 1.46494, 2.1139900000000000
3, 2.21126, 1.92313, 2.24173, 2.2463900000000003, 1.9521, 1.34759, 1.9563700000000002]

Mean absolute error:- 0.000262171877081833

Mean squared error:- 9.685199948965373e-08

Root mean squared error:- 0.00031121053884734323

r2 Score:- 0.999995927338812

At random state 37 the model performs very well

At random state 37

Training score is

0.999997194144645

Predicted value is [2.06395867 2.11353028 2.49198171 1.24122012 2.21125943 2.82365711
2.20795866 2.75459652 2.6195138 1.9233828 1.41712081 2.46555097
2.74281434 2.44215074 2.30872791 1.21362145 1.87872816 1.86965466
3.08886007 1.84417717 0.98176306 2.5098716 1.85106117 2.04403676
1.94267452 1.3473208 2.46514155 1.46501971 2.89316909 1.87659788] and Actual value is [
2.06367, 2.1139900000000003, 2.4920400000000003, 1.24074, 2.21126, 2.82334, 2.20857, 2.75
414, 2.61955, 1.92313, 1.41723, 2.4657, 2.74255, 2.44191, 2.30919, 1.21305, 1.87877, 1.86
98400000000002, 3.08854, 1.84408, 0.98195, 2.51009, 1.851, 2.0438400000000003, 1.94295999
99999998, 1.34759, 2.465309999999997, 1.46494, 2.89319, 1.8763400000000001]

Mean absolute error:- 0.00023825016158641744

Mean squared error:- 8.357606084451715e-08

Root mean squared error:- 0.00028909524528175336

r2 Score:- 0.999997072484476

At random state 38 the model performs very well

At random state 38

Training score is

0.999997402392159

Predicted value is [1.75332757 1.80039372 2.22002627 1.71926864 2.02496875 2.32376073
2.02484212 2.1313419 1.75868867 1.58822708 1.96943703 2.5099194
2.18863995 2.11351653 1.88959282 1.69484545 1.5715921 2.74279774
1.59858625 3.10710609 2.70217678 2.20145053 3.03484089 1.92337109
3.1775997 2.86701177 2.82363896 1.85996779 2.44215139 2.26648417] and Actual value is [
1.7536, 1.80100999999998, 2.21978, 1.719559999999998, 2.025179999999998, 2.32407, 2.0
25, 2.1309, 1.75873, 1.58782, 1.969609999999999, 2.51009, 2.18896, 2.113990000000003, 1
.889309999999998, 1.6944, 1.5714, 2.74255, 1.598879999999999, 3.10712, 2.70201, 2.20173
, 3.035, 1.92313, 3.17728, 2.86712, 2.82334, 1.8604, 2.44191, 2.26646]

Mean absolute error:- 0.0002626427042221824

Mean squared error:- 8.715808861815982e-08

Root mean squared error:- 0.00029522548775158254

r2 Score:- 0.99999604782311

At random state 39 the model performs very well

At random state 39
Training score is
0.9999997067778658
Predicted value is [2.46561186 2.12376615 1.63319132 1.93105941 2.79055947 2.67613534
0.89943738 2.67773458 1.94273688 1.94937286 2.59435735 2.47491916
0.98166815 1.86605279 1.88498073 2.27410277 2.80732445 1.9233545
1.38096719 2.26647351 2.30866987 3.19105071 2.84821532 2.09021224
2.06390091 3.1071032 1.69478368 1.88953426 1.95847226 3.05117551] and Actual value is [
2.4657, 2.12367, 1.6332799999999998, 1.9312900000000002, 2.79094, 2.67585, 0.89991, 2.677
82, 1.9429599999999998, 1.9493900000000002, 2.5945, 2.4748900000000003, 0.98195, 1.86565,
1.8854099999999998, 2.27394, 2.8079099999999997, 1.92313, 1.38079, 2.26646, 2.30919, 3.19
13099999999996, 2.84848, 2.0906599999999997, 2.06367, 3.10712, 1.6944, 1.8893099999999998
, 1.95812, 3.05137]

Mean absolute error:- 0.0002437081105150396
Mean squared error:- 8.349486976419472e-08
Root mean squared error:- 0.00028895478844309663
r2 Score:- 0.9999997376468284

At random state 40 the model performs very well
At random state 40
Training score is
0.9999996483677144

Predicted value is [2.79077716 1.86970049 2.86692755 2.44844197 1.73932585 1.42787571
0.65459566 1.21368394 1.26508871 2.83595937 3.05117616 3.17758435
2.74278943 0.67149312 2.09979703 1.99176035 1.46180697 1.59576203
2.00080131 2.75453712 1.94932124 2.51766203 2.44682403 1.97548
2.43243889 2.41452186 3.60179419 1.95596805 2.2664627 2.6344356] and Actual value is [
2.79094, 1.8698400000000002, 2.86712, 2.44876, 1.7393299999999998, 1.42766, 0.65428999999
9999, 1.21305, 1.26462, 2.8360000000000003, 3.05137, 3.17728, 2.74255, 0.67108, 2.10017,
1.9917200000000002, 1.46181, 1.59541, 2.00073, 2.75414, 1.9493900000000002, 2.51767, 2.44
64900000000003, 1.9757, 2.43209, 2.4148400000000003, 3.6021400000000003, 1.956370000000000
02, 2.26646, 2.63434]

Mean absolute error:- 0.000235101013760175
Mean squared error:- 8.067541270459872e-08
Root mean squared error:- 0.0002840341752405839
r2 Score:- 0.9999998340968278

At random state 41 the model performs very well
At random state 41
Training score is
0.9999997355764737

Predicted value is [1.87656085 2.79053624 2.32130506 1.88529925 1.86972511 1.78525935
1.95850025 2.2470685 2.30868905 2.43245888 1.95069202 3.05121017
0.99845477 2.50984475 2.05100926 1.93103282 2.11819189 2.32377414
3.03481172 1.79312327 1.63321098 2.23770616 2.49208861 1.59854357
1.8643114 1.69479559 1.84410999 2.59435939 1.68429699 2.44223455] and Actual value is [
1.8763400000000001, 2.79094, 2.3214200000000003, 1.885009999999999, 1.8698400000000002,
1.78555, 1.95812, 2.24729, 2.30919, 2.43209, 1.95071, 3.05137, 0.99895, 2.51009, 2.05125,
1.9312900000000002, 2.11773, 2.32407, 3.035, 1.79293, 1.6332799999999998, 2.237409999999
997, 2.4920400000000003, 1.5988799999999999, 1.86399, 1.6944, 1.84408, 2.5945, 1.68435, 2
.44191]

Mean absolute error:- 0.00024922667244381413
Mean squared error:- 8.042325478596715e-08
Root mean squared error:- 0.0002835899412637323
r2 Score:- 0.9999995830166536

At random state 42 the model performs very well
At random state 42
Training score is
0.9999997134065786

Predicted value is [2.23234794 2.41450825 2.44844515 1.879663 2.00076108 2.85761026
2.4324547 1.38096119 0.65450671 1.93110307 1.71924941 2.53339288
2.32306821 2.26648626 2.24710176 2.13138291 1.44417391 1.58825794
2.59437637 1.94932677 2.67774882 1.46170294 2.67617912 1.95068765
0.89941557 1.4171306 2.30868772 1.84414353 2.53920023 2.32132561] and Actual value is [
2.2327, 2.4148400000000003, 2.44876, 1.8799599999999999, 2.00073, 2.85737, 2.43209, 1.380

79, 0.6542899999999999, 1.9312900000000002, 1.7195599999999998, 2.5332, 2.32323, 2.26646, 2.24743, 2.1309, 1.44395, 1.58782, 2.5945, 1.9493900000000002, 2.67782, 1.46181, 2.67585, 1.95071, 0.89991, 1.41723, 2.30919, 1.84408, 2.5394200000000002, 2.3214200000000003]

Mean absolute error:- 0.00022871538559128638
Mean squared error:- 7.267272561973556e-08
Root mean squared error:- 0.00026957879297106357
r2 Score:- 0.999997355672149

At random state 43 the model performs very well

At random state 43
Training score is
0.999997120479778

Predicted value is [1.59858388 3.0513455 1.84415585 1.87656058 2.59441781 2.79079946 2.13137158 1.87875038 2.32134095 2.53920915 1.87965047 1.24115542 3.17768093 3.10729554 2.79887098 3.26050996 2.53344212 1.94933788 2.20147105 0.99839036 2.7022415 1.76147066 2.05108046 2.06393839 1.97550366 1.8003902 2.49203303 3.08891554 1.21357508 2.24708663] and Actual value is [1.5988799999999999, 3.05137, 1.84408, 1.8763400000000001, 2.5945, 2.79094, 2.1309, 1.87877, 2.3214200000000003, 2.5394200000000002, 1.8799599999999999, 1.24074, 3.17728, 3.107090 0000000004, 2.79832, 3.26001, 2.5332, 1.9493900000000002, 2.20173, 0.99895, 2.70201, 1.76145, 2.05125, 2.06367, 1.9757, 1.8010099999999998, 2.4920400000000003, 3.08854, 1.21305, 2.24743]

Mean absolute error:- 0.000262441642412888
Mean squared error:- 1.0071213908023351e-07
Root mean squared error:- 0.00031735175922032247
r2 Score:- 0.999997111202039

At random state 44 the model performs very well

At random state 44
Training score is
0.99999734900626

Predicted value is [1.73807396 2.26651185 2.2015097 1.21360109 1.87967516 2.02497424 2.50986463 1.9918275 1.84418071 1.88501719 1.97550719 1.61619482 1.73832862 1.87881064 2.8359282 2.4651717 2.09028037 2.43243574 2.31978492 1.93112852 0.65459555 1.85113732 1.83348497 2.48654142 2.27547196 2.51774136 1.88533193 0.99845377 2.23771442 1.69485621] and Actual value is [1.7379900000000001, 2.26646, 2.20173, 1.21305, 1.8799599999999999, 2.0251799999999998, 2.51009, 1.9917200000000002, 1.84408, 1.8854099999999998, 1.9757, 1.6158299999999999, 1.73797, 1.87877, 2.8360000000000003, 2.4653099999999997, 2.0906599999999997, 2.43209, 2.31945, 1.9312900000000002, 0.6542899999999999, 1.851, 1.83302, 2.48676, 2.27513, 2.51767, 1.8850099999999999, 0.99895, 2.2374099999999997, 1.6944]

Mean absolute error:- 0.0002577159795083809
Mean squared error:- 8.626133536457945e-08
Root mean squared error:- 0.000293702801083986
r2 Score:- 0.999995792183626

At random state 45 the model performs very well

At random state 45
Training score is
0.999997217268496

Predicted value is [2.51750077 1.68429556 0.89938984 2.46516051 2.12377632 2.22004929 2.79065674 2.20792751 1.75871807 0.98168396 2.83598903 1.95841776 2.27551341 2.11355385 1.79308642 1.64836256 1.41714767 1.85108418 2.74278844 2.10993137 1.26495556 1.62256697 2.24176764 2.24714914 2.45186862 2.4421884 1.89856587 2.43245738 3.08889039 3.05118877] and Actual value is [2.5173799999999997, 1.68435, 0.89991, 2.4653099999999997, 2.12367, 2.21978, 2.79094, 2.20857, 1.75873, 0.98195, 2.8360000000000003, 1.95812, 2.27513, 2.1139900000000003, 1.79293, 1.6488, 1.41723, 1.851, 2.74255, 2.11032, 1.26462, 1.62215, 2.24173, 2.24729, 2.451759999999997, 2.44191, 1.89894, 2.43209, 3.08854, 3.05137]

Mean absolute error:- 0.0002510371241440046
Mean squared error:- 8.831396618862877e-08
Root mean squared error:- 0.00029717665821633567
r2 Score:- 0.999997011024251

At random state 46 the model performs very well
At random state 46
Training score is
0.9999996935907698

Predicted value is [2.45191366 2.32372748 1.69495351 2.2642379 2.84829125 1.94943014
2.24631712 1.21356615 1.73803729 2.89333366 1.87963902 1.42780521
1.68424882 2.12506427 3.17758977 1.87666074 3.1071061 3.08889769
3.10738115 2.44844369 3.03481669 2.11350321 2.82364915 1.76153303
1.84412006 2.21119312 1.63817519 1.68160899 1.41720673 1.86437802] and Actual value is [
2.4517599999999997, 2.32407, 1.6944, 2.26425, 2.84848, 1.9493900000000002, 2.2463900000000000003,
1.21305, 1.737990000000000001, 2.89319, 1.8799599999999999, 1.42766, 1.68435, 2.12466
, 3.17728, 1.876340000000000001, 3.10712, 3.08854, 3.10709000000000004, 2.44876, 3.035, 2.11
39900000000003, 2.82334, 1.76145, 1.84408, 2.21126, 1.63794, 1.68135, 1.41723, 1.86399]

Mean absolute error:- 0.00022421876584080013
Mean squared error:- 7.471549090814462e-08
Root mean squared error:- 0.00027334134503975905
r2 Score:- 0.9999997699212152

At random state 47 the model performs very well
At random state 47
Training score is
0.9999997109717208

Predicted value is [3.08887133 2.51754882 3.10715303 2.6195955 3.26051606 2.74281702
1.88958552 2.11816298 2.09033013 2.4145561 2.86707231 2.46519558
1.87664157 1.738375 2.51769967 1.24120353 1.58831545 2.70216628
1.79316328 1.99178452 2.79884047 1.87879718 2.22006229 2.32382656
2.05114143 3.17763658 1.57167773 1.34734312 1.59576447 2.04407925] and Actual value is [
3.08854, 2.5173799999999997, 3.10712, 2.61955, 3.26001, 2.74255, 1.8893099999999998, 2.11
773, 2.0906599999999997, 2.4148400000000003, 2.86712, 2.4653099999999997, 1.8763400000000001,
1.73797, 2.51767, 1.24074, 1.58782, 2.70201, 1.79293, 1.9917200000000002, 2.79832, 1
.87877, 2.21978, 2.32407, 2.05125, 3.17728, 1.5714, 1.34759, 1.59541, 2.0438400000000003]

Mean absolute error:- 0.0002547434242895719
Mean squared error:- 8.688934588514059e-08
Root mean squared error:- 0.00029476998810113044
r2 Score:- 0.9999997115178052

At random state 48 the model performs very well
At random state 48
Training score is
0.9999997483621673

Predicted value is [1.73791926 2.23773037 1.68152691 2.11810735 1.58829226 2.86705031
2.24709974 2.44687792 2.43855675 2.8073654 1.44417878 2.32306971
1.96968758 2.08476289 1.75334508 2.09977541 3.17762191 2.51762335
2.13140155 2.23234947 2.26420351 1.86001786 1.88952622 1.63320075
0.89942654 2.45185257 2.85766024 2.45363627 1.94935245 2.10997729] and Actual value is [
1.7379900000000001, 2.2374099999999997, 1.68135, 2.11773, 1.58782, 2.86712, 2.24743, 2.44
64900000000003, 2.43872, 2.8079099999999997, 1.44395, 2.32323, 1.9699400000000002, 2.0852
, 1.7536, 2.10017, 3.17728, 2.51767, 2.1309, 2.2327, 2.26425, 1.8604, 1.8893099999999998
, 1.6332799999999998, 0.89991, 2.4517599999999997, 2.85737, 2.4537299999999997, 1.9493900
000000002, 2.11032]

Mean absolute error:- 0.00026754928077231676
Mean squared error:- 9.569235077532775e-08
Root mean squared error:- 0.0003093418025022285
r2 Score:- 0.9999995571725723

At random state 49 the model performs very well
At random state 49
Training score is
0.9999997304607771

Predicted value is [2.22007078 2.20789686 1.8796768 1.41714779 1.648372 1.62256706
1.88529441 1.79305929 3.05112137 2.49199532 2.24711206 2.63438906
2.12512485 2.04403474 1.99180237 1.75876564 2.48649324 1.94930366
1.97544616 2.24712089 1.26500977 2.44849139 0.65453418 1.85110293
0.99848238 2.67777156 2.23231296 1.7382999 2.27551721 2.41450919] and Actual value is [
2.21978, 2.20857, 1.8799599999999999, 1.41723, 1.6488, 1.62215, 1.8850099999999999, 1.792
93, 3.05137, 2.4920400000000003, 2.24729, 2.6343, 2.12466, 2.0438400000000003, 1.99172000

00000002, 1.75873, 2.48676, 1.9493900000000002, 1.9757, 2.24743, 1.26462, 2.44876, 0.6542
899999999999, 1.851, 0.99895, 2.67782, 2.2327, 1.73797, 2.27513, 2.4148400000000003]

Mean absolute error:- 0.0002599523836400978

Mean squared error:- 9.055819189187594e-08

Root mean squared error:- 0.0003009288817841783

r2 Score:- 0.9999996309618207

At random state 50 the model performs very well

At random state 50

Training score is

0.999997714949739

Predicted value is [1.88956522 1.7533112 1.86604181 2.11554987 2.30870776 1.96943401
1.44411977 1.88527878 1.78519192 2.53339042 1.63321988 2.13135425
2.75454407 1.75869587 1.96969281 0.9984406 2.04399937 1.85996253
1.87964666 1.94932542 1.95244103 2.50960248 1.26493722 2.23228792
1.8004087 2.02482746 1.95591932 1.73925724 1.94268223 2.32377153] and Actual value is [
1.8893099999999998, 1.7536, 1.86565, 2.1156900000000003, 2.30919, 1.969609999999999, 1.4
4395, 1.885009999999999, 1.78555, 2.5332, 1.6332799999999998, 2.1309, 2.75414, 1.75873,
1.9699400000000002, 0.99895, 2.0438400000000003, 1.8604, 1.8799599999999999, 1.9493900000
000002, 1.9521, 2.51011, 1.26462, 2.2327, 1.8010099999999998, 2.025, 1.95637000000000002,
1.7393299999999998, 1.9429599999999998, 2.32407]

Mean absolute error:- 0.00029521754395374816

Mean squared error:- 1.0917265186268634e-07

Root mean squared error:- 0.00033041285063188197

r2 Score:- 0.9999991028330226

At random state 51 the model performs very well

At random state 51

Training score is

0.999997187465082

Predicted value is [1.87969814 2.0510278 1.57035047 2.32308167 2.06395137 1.57174015
1.92337422 1.99175022 3.08885335 2.80734509 0.67143169 2.4518686
2.23240549 1.46176584 1.42793082 1.86429613 2.11817768 1.24122437
2.44844311 1.68433756 1.41715762 2.44226527 2.85762662 2.53919688
1.88499506 1.95850418 2.47490985 2.50960089 3.26045894 1.84416493] and Actual value is [
1.879959999999999, 2.05125, 1.57059, 2.32323, 2.06367, 1.5714, 1.92313, 1.99172000000000
02, 3.08854, 2.80790999999997, 0.67108, 2.451759999999997, 2.2327, 1.46181, 1.42766, 1
.86399, 2.11773, 1.24074, 2.44876, 1.68435, 1.41723, 2.44191, 2.85737, 2.53942000000000002
, 1.8854099999999998, 1.95812, 2.4748900000000003, 2.51011, 3.26001, 1.84408]

Mean absolute error:- 0.00026842568009711744

Mean squared error:- 9.440340299351585e-08

Root mean squared error:- 0.00030725136776508556

r2 Score:- 0.9999996993715542

At random state 52 the model performs very well

At random state 52

Training score is

0.999997525477301

Predicted value is [2.44841761 2.86694908 1.94268607 1.87966569 2.84825255 2.13136656
1.46176264 1.69481147 1.88528132 2.46516743 1.86968583 1.5989682
2.18863915 2.24710818 2.12503177 1.9233621 1.6162212 1.59862085
1.68431609 2.04400374 2.63440685 0.89944723 1.21360164 2.09979572
2.21123573 1.86425384 2.30870141 1.87661894 2.8073698 2.24712423] and Actual value is [
2.44876, 2.86712, 1.942959999999998, 1.879959999999999, 2.84848, 2.1309, 1.46181, 1.694
4, 1.885009999999999, 2.465309999999997, 1.8698400000000002, 1.59927, 2.18896, 2.24729,
2.12466, 1.92313, 1.615829999999999, 1.598879999999999, 1.68435, 2.0438400000000003, 2.
6343, 0.89991, 1.21305, 2.10017, 2.21126, 1.86399, 2.30919, 1.8763400000000001, 2.8079099
99999997, 2.24743]

Mean absolute error:- 0.0002818642464276544

Mean squared error:- 9.920332347725392e-08

Root mean squared error:- 0.0003149655909416994

r2 Score:- 0.9999995153609688

At random state 53 the model performs very well

At random state 53
Training score is
0.999999722033352
Predicted value is [1.8004003 2.26431024 1.46180822 3.10707664 2.8931943 1.21362437
1.8697705 1.61620392 2.83594866 2.85760544 0.65457777 2.20147635
1.88531996 2.84824555 2.30870048 1.76143055 2.23778068 2.11815964
2.43246852 2.23235545 1.46511312 2.0440464 1.9310878 1.8796912
2.51756165 1.8642584 2.44681544 2.46520594 1.95849564 2.51764236] and Actual value is [
1.801009999999998, 2.26425, 1.46181, 3.10712, 2.89319, 1.21305, 1.8698400000000002, 1.61
58299999999999, 2.8360000000000003, 2.85737, 0.6542899999999999, 2.20173, 1.88500999999999
99, 2.84848, 2.30919, 1.76145, 2.2374099999999997, 2.11773, 2.43209, 2.2327, 1.46494, 2.
0438400000000003, 1.9312900000000002, 1.8799599999999999, 2.5173799999999997, 1.86399, 2.
4464900000000003, 2.4653099999999997, 1.95812, 2.51767]
Mean absolute error:- 0.0002425162876960448
Mean squared error:- 8.60474433173267e-08
Root mean squared error:- 0.00029333844500393515
r2 Score:- 0.9999996968146297

At random state 54 the model performs very well

At random state 54

Training score is

0.9999997004563169

Predicted value is [2.51748151 2.53918026 3.05121386 1.94938502 2.79877414 1.73796433
2.24632105 2.09977335 0.67142789 2.45187098 2.74279918 1.3809509
1.46505862 1.75869763 2.63444365 2.10995275 2.86701848 2.05105145
2.43854912 3.17760422 2.89327168 2.27544256 2.23233358 1.79312609
2.30874679 2.44842829 1.62258816 2.12377538 1.75336171 2.27413643] and Actual value is [
2.517379999999997, 2.5394200000000002, 3.05137, 1.9493900000000002, 2.79832, 1.737990000
0000001, 2.2463900000000003, 2.10017, 0.67108, 2.4517599999999997, 2.74255, 1.38079, 1.46
494, 1.75873, 2.6343, 2.11032, 2.86712, 2.05125, 2.43872, 3.17728, 2.89319, 2.27513, 2.23
27, 1.79293, 2.30919, 2.44876, 1.62215, 2.12367, 1.7536, 2.27394]

Mean absolute error:- 0.0002161238038555502

Mean squared error:- 6.397241052100837e-08

Root mean squared error:- 0.00025292767843992155

r2 Score:- 0.9999997776159583

At random state 55 the model performs very well

At random state 55

Training score is

0.999999729562305

Predicted value is [2.26646391 2.3231231 2.26420834 1.44419124 1.34737578 2.53341864
1.68159561 1.8334311 3.26045224 2.83598875 3.19113825 1.8697016
1.57040645 2.12379435 1.94275291 1.86428958 2.00081814 2.23767306
1.58830723 1.69485062 1.26504094 2.63445057 2.02489973 1.95844063
1.6226243 2.2014879 2.4484488 2.44688381 2.1099847 1.88962419] and Actual value is [
2.26646, 2.32323, 2.26425, 1.44395, 1.34759, 2.5332, 1.68135, 1.83302, 3.26001, 2.8360000
00000003, 3.191309999999996, 1.869840000000002, 1.57059, 2.12367, 1.942959999999998,
1.86399, 2.00073, 2.237409999999997, 1.58782, 1.6944, 1.26462, 2.6343, 2.025, 1.95812, 1
.62215, 2.20173, 2.44876, 2.446490000000003, 2.11032, 1.889309999999998]

Mean absolute error:- 0.000247128663104057

Mean squared error:- 7.991111023563289e-08

Root mean squared error:- 0.00028268553241302054

r2 Score:- 0.9999996579131589

At random state 56 the model performs very well

At random state 56

Training score is

0.9999997115798729

Predicted value is [1.44421076 2.48659123 3.10733399 1.380986 2.04407654 1.7533299
1.5990368 1.64840566 2.53339743 0.67142849 2.20147742 2.45188847
2.51751708 2.41451962 2.02490339 2.46560841 2.37158788 2.26648759
2.11816926 2.63441737 2.24632392 1.57168138 1.86607514 0.65454543
2.32132803 2.12508674 2.06395911 1.8895985 2.23235272 2.44686543] and Actual value is [
1.444395, 2.48676, 3.107090000000004, 1.38079, 2.043840000000003, 1.7536, 1.59927, 1.648
8, 2.5332, 0.67108, 2.20173, 2.451759999999997, 2.517379999999997, 2.414840000000003,
2.025, 2.4657, 2.371190000000004, 2.26646, 2.11773, 2.6343, 2.246390000000003, 1.5714,

1.86565, 0.6542899999999999, 2.3214200000000003, 2.12466, 2.06367, 1.8893099999999998, 2.2327, 2.4464900000000003]

Mean absolute error:- 0.00024685036196281374
Mean squared error:- 7.424560933974184e-08
Root mean squared error:- 0.0002724804751532517
r2 Score:- 0.9999997367502614

At random state 57 the model performs very well

At random state 57

Training score is

0.9999997195927237

Predicted value is [2.20144979 1.738304 2.41450126 2.53915497 2.46514181 1.89858725 2.76619302 1.76150908 0.89947309 1.88964421 3.1071204 2.2470874 0.6714711 1.63816592 1.41718222 1.24121702 1.97550126 2.31988452 1.68157704 2.85763566 2.12505683 1.58826108 2.2376074 2.05104268 2.82363051 2.44842566 1.69490832 2.10995862 2.44216808 3.03481713] and Actual value is [2.20173, 1.73797, 2.4148400000000003, 2.5394200000000002, 2.4653099999999997, 1.89894, 2.76579, 1.76145, 0.89991, 1.8893099999999998, 3.10712, 2.24743, 0.67108, 1.63794, 1.41723, 1.24074, 1.9757, 2.31945, 1.68135, 2.85737, 2.12466, 1.58782, 2.2374099999999997, 2.05125, 2.82334, 2.44876, 1.6944, 2.11032, 2.44191, 3.035]

Mean absolute error:- 0.00029203457939342613

Mean squared error:- 1.0056943673489564e-07

Root mean squared error:- 0.00031712684644302135

r2 Score:- 0.9999996990765491

At random state 58 the model performs very well

At random state 58

Training score is

0.999999731298837

Predicted value is [1.44420603 2.76612667 1.75872117 1.7931613 2.00079185 2.44844906 2.82358857 2.23771177 2.18864222 2.11816423 2.46558965 1.9507243 1.89855172 1.88499234 2.0998235 2.12502267 1.85996087 2.30870367 2.2753982 1.93109447 1.63322393 2.05110845 2.67614868 1.9584906 2.32131414 2.47496616 1.24117809 2.23232952 3.60180712 0.65452159] and Actual value is [1.44395, 2.76579, 1.75873, 1.79293, 2.00073, 2.44876, 2.82334, 2.237409999999997, 2.18896, 2.11773, 2.4657, 1.95071, 1.89894, 1.885409999999998, 2.10017, 2.12466, 1.8604, 2.30919, 2.27513, 1.9312900000000002, 1.633279999999998, 2.05125, 2.67585, 1.95812, 2.32142000000003, 2.4748900000000003, 1.24074, 2.2327, 3.6021400000000003, 0.654289999999999]

Mean absolute error:- 0.00026529469880214317

Mean squared error:- 8.88134040421009e-08

Root mean squared error:- 0.00029801577817642624

r2 Score:- 0.9999996682735718

At random state 59 the model performs very well

At random state 59

Training score is

0.9999997303576708

Predicted value is [2.21124951 1.86001664 1.57034261 1.59581574 2.63443483 1.95071688 1.44418587 1.68430987 1.465071 1.75332982 2.20797212 1.96971897 1.85111344 1.59856894 2.85760437 1.88497681 3.10730971 2.12507809 2.27409447 2.83596202 1.7192532 1.88953917 3.1071143 1.95848598 1.89857907 2.51753519 2.82362575 2.80743475 1.7931228 1.88530733] and Actual value is [2.21126, 1.8604, 1.57059, 1.59541, 2.6343, 1.95071, 1.44395, 1.68435, 1.46494, 1.7536, 2.20857, 1.9699400000000002, 1.851, 1.598879999999999, 2.85737, 1.885409999999998, 3.107090000000004, 2.12466, 2.27394, 2.8360000000000003, 1.719559999999998, 1.8893099999999998, 3.10712, 1.95812, 1.89894, 2.517379999999997, 2.82334, 2.807909999999997, 1.79293, 1.885009999999999]

Mean absolute error:- 0.00024273290627447135

Mean squared error:- 8.044977578868691e-08

Root mean squared error:- 0.0002836366968300945

r2 Score:- 0.9999996642127488

At random state 60 the model performs very well

At random state 60

Training score is
0.9999997493755111
Predicted value is [2.67778729 1.95076052 1.9585268 2.27553623 1.44421964 2.75462165
1.58829611 1.68160538 2.20156139 2.45181421 1.87660496 1.94938724
1.59856583 2.82365722 3.26049378 2.43860835 1.64827424 2.44686142
1.88528758 1.92348094 2.50954537 2.24713913 2.46513273 1.71927824
2.02485494 2.53927981 1.59590261 2.51780756 1.87971749 1.85116392] and Actual value is [
2.67782, 1.95071, 1.95812, 2.27513, 1.44395, 2.75414, 1.58782, 1.68135, 2.20173, 2.451759
9999999997, 1.87634000000000001, 1.94939000000000002, 1.5988799999999999, 2.82334, 3.26001,
2.43872, 1.6488, 2.4464900000000003, 1.8850099999999999, 1.92313, 2.51011, 2.24743, 2.465
30999999999997, 1.719559999999998, 2.025, 2.5394200000000002, 1.59541, 2.51767, 1.8799599
999999999, 1.851]

Mean absolute error:- 0.00027528224267817276
Mean squared error:- 9.983021091702867e-08
Root mean squared error:- 0.0003159591918539935
r2 Score:- 0.9999994750478781

At random state 61 the model performs very well

At random state 61

Training score is
0.9999997224110151

Predicted value is [1.34726484 2.50988266 1.95592268 2.23225446 2.24717063 1.63806797
2.02486359 3.10708447 2.12512306 2.67776599 2.22007274 1.68160495
1.87966852 1.73799177 1.97545794 3.10737894 2.51750873 2.83594786
1.95254295 1.88533854 2.79875595 1.87666233 2.43865072 1.63329499
3.05118463 1.44412384 2.80743789 2.75461787 1.94273554 1.8510736] and Actual value is [
1.34759, 2.51009, 1.9563700000000002, 2.2327, 2.24743, 1.63794, 2.025, 3.10712, 2.12466,
2.67782, 2.21978, 1.68135, 1.8799599999999999, 1.7379900000000001, 1.9757, 3.107090000000
0004, 2.5173799999999997, 2.8360000000000003, 1.9521, 1.8850099999999999, 2.79832, 1.8763
400000000001, 2.43872, 1.633279999999998, 3.05137, 1.44395, 2.8079099999999997, 2.75414,
1.942959999999998, 1.851]

Mean absolute error:- 0.00024252660141929432
Mean squared error:- 8.133174405667265e-08
Root mean squared error:- 0.00028518720878867033
r2 Score:- 0.9999996708439057

At random state 62 the model performs very well

At random state 62

Training score is
0.9999997373506726

Predicted value is [1.99183706 1.94934553 2.31982796 1.87660367 1.71926224 3.10735274
1.4617648 3.03487925 1.80035506 1.34732522 1.59895429 2.1181499
1.73830905 2.32381991 1.59856979 2.76617043 2.43858075 2.00079104
2.74283653 2.82367718 2.21124081 2.26652436 1.57159351 2.13137359
1.63329021 2.37163276 2.12504482 2.67777447 2.51774412 2.23774116] and Actual value is [
1.9917200000000002, 1.9493900000000002, 2.31945, 1.8763400000000001, 1.7195599999999998,
3.1070900000000004, 1.46181, 3.035, 1.80100999999998, 1.34759, 1.59927, 2.11773, 1.7379
7, 2.32407, 1.5988799999999999, 2.76579, 2.43872, 2.00073, 2.74255, 2.82334, 2.21126, 2.2
6646, 1.5714, 2.1309, 1.633279999999998, 2.3711900000000004, 2.12466, 2.67782, 2.51767,
2.237409999999997]

Mean absolute error:- 0.00024426644232802277
Mean squared error:- 8.475026525221934e-08
Root mean squared error:- 0.000291118988134095
r2 Score:- 0.9999996076748738

At random state 63 the model performs very well

At random state 63

Training score is
0.9999996972799667

Predicted value is [2.44220218 2.74284858 1.58827041 0.65446113 2.44850147 2.2112408
0.67142933 2.06382934 2.50997454 2.00077428 2.83598413 1.8661181
1.44420656 1.79317962 2.79881992 2.2754367 1.9918084 2.09973826
1.42791379 2.08472058 1.86970375 2.32383486 2.84830061 2.43242878
2.24628218 3.1776566 0.89940755 1.46182952 1.95287759 1.34736881] and Actual value is [
2.44191, 2.74255, 1.58782, 0.6542899999999999, 2.44876, 2.21126, 0.67108, 2.06367, 2.5100
9, 2.00073, 2.8360000000000003, 1.86565, 1.44395, 1.79293, 2.79832, 2.27513, 1.9917200000

000002, 2.10017, 1.42766, 2.08528, 1.8698400000000002, 2.32407, 2.84848, 2.43209, 2.24639
0000000003, 3.17728, 0.89991, 1.46181, 1.95335, 1.34759]

Mean absolute error:- 0.0002626029598512399

Mean squared error:- 9.329476912790355e-08

Root mean squared error:- 0.00030544192431279557

r2 Score:- 0.9999997571510572

At random state 64 the model performs very well

At random state 64

Training score is

0.999999721124238

Predicted value is [3.60185299 3.10707417 1.92341139 1.58825074 2.27550447 2.43244717

1.73925258 1.99183859 1.95255088 2.61956082 1.34730845 2.18860404

1.88500574 1.88531642 2.3213113 2.67772021 2.44216834 0.65451678

2.24716561 2.11005446 1.95595314 2.43860876 2.3715975 1.7614015

2.45367265 2.27407535 1.85998397 1.80038997 2.83591662 1.85109309] and Actual value is [

3.6021400000000003, 3.10712, 1.92313, 1.58782, 2.27513, 2.43209, 1.7393299999999998, 1.99

17200000000002, 1.9521, 2.61955, 1.34759, 2.18896, 1.8854099999999998, 1.8850099999999999

, 2.3214200000000003, 2.67782, 2.44191, 0.654289999999999, 2.24743, 2.11032, 1.956370000

0000002, 2.43872, 2.3711900000000004, 1.76145, 2.4537299999999997, 2.27394, 1.8604, 1.801

0099999999998, 2.8360000000000003, 1.851]

Mean absolute error:- 0.00024651210497923147

Mean squared error:- 8.444683543884019e-08

Root mean squared error:- 0.00029059737686159556

r2 Score:- 0.9999997040974615

At random state 65 the model performs very well

At random state 65

Training score is

0.9999997051452179

Predicted value is [1.46182072 0.65444702 2.26642708 2.32378902 2.85764313 2.02484503

1.68430056 1.9696614 2.79881899 1.79315818 2.83597778 1.59857819

3.10722238 2.46512981 2.8482662 1.95075823 2.80741785 2.5099436

1.57033606 2.08476151 1.42786643 1.9529554 2.11811641 2.12503554

2.533383 1.24118255 1.97543838 1.94274261 2.75454063 3.03486395] and Actual value is [

1.46181, 0.654289999999999, 2.26646, 2.32407, 2.85737, 2.025, 1.68435, 1.969940000000000

2, 2.79832, 1.79293, 2.8360000000000003, 1.598879999999999, 3.1070900000000004, 2.465309

9999999997, 2.84848, 1.95071, 2.8079099999999997, 2.51009, 1.57059, 2.08528, 1.42766, 1.9

5335, 2.11773, 2.12466, 2.5332, 1.24074, 1.9757, 1.942959999999998, 2.75414, 3.035]

Mean absolute error:- 0.000242625297319643

Mean squared error:- 7.946083329172248e-08

Root mean squared error:- 0.0002818879800412257

r2 Score:- 0.9999997626388386

At random state 66 the model performs very well

At random state 66

Training score is

0.9999997355431659

Predicted value is [2.0440213 2.00079934 2.50988238 2.41451396 1.73831476 2.12508639

2.51747014 1.95296587 3.60182964 1.3809658 1.61625887 1.26505064

1.62259486 2.23234332 2.23766705 2.26419917 1.86966882 0.89947845

1.6948626 2.45185317 1.99180139 2.82364372 2.1313617 2.48659184

1.8896275 2.24711059 2.32378782 1.68159192 2.43852899 2.11559021] and Actual value is [

2.0438400000000003, 2.00073, 2.51009, 2.414840000000003, 1.73797, 2.12466, 2.51737999999

99997, 1.95335, 3.6021400000000003, 1.38079, 1.615829999999999, 1.26462, 1.62215, 2.2327

, 2.2374099999999997, 2.26425, 1.869840000000002, 0.89991, 1.6944, 2.451759999999997, 1

.991720000000002, 2.82334, 2.1309, 2.48676, 1.889309999999998, 2.24743, 2.32407, 1.6813

5, 2.43872, 2.1156900000000003]

Mean absolute error:- 0.0002703364940341957

Mean squared error:- 8.99929460630281e-08

Root mean squared error:- 0.000299982432080099

r2 Score:- 0.9999996387153464

At random state 67 the model performs very well

At random state 67
Training score is
0.9999997419038749
Predicted value is [1.68425395 2.79075462 2.11351408 2.31976581 2.5099097 2.46554848
2.49195493 1.88959366 2.24711101 2.23229223 2.89323625 2.12505622
1.92339592 2.32373867 2.02483713 2.20145887 1.73799951 2.27406885
1.97543814 0.65447907 2.46511965 2.08475157 2.09978185 2.82362777
2.26642577 1.5715956 2.18861447 1.95297318 1.75333602 1.83342539] and Actual value is [
1.68435, 2.79094, 2.1139900000000003, 2.31945, 2.51009, 2.4657, 2.4920400000000003, 1.889
30999999999998, 2.24729, 2.2327, 2.89319, 2.12466, 1.92313, 2.32407, 2.025, 2.20173, 1.737
99000000000001, 2.27394, 1.9757, 0.6542899999999999, 2.4653099999999997, 2.08528, 2.10017,
2.82334, 2.26646, 1.5714, 2.18896, 1.95335, 1.7536, 1.83302]

Mean absolute error:- 0.0002479906181112897

Mean squared error:- 7.852524447856225e-08

Root mean squared error:- 0.00028022356160494827

r2 Score:- 0.9999995628046153

At random state 68 the model performs very well

At random state 68

Training score is

0.9999997029818561

Predicted value is [1.95254254 1.64836064 3.60184844 2.23230064 0.89938824 2.63446596
1.75333891 2.74278148 2.02483124 2.47498649 2.41448419 1.9694188
1.5989907 1.85108631 1.58823837 1.34731423 1.44417117 1.79313794
1.69483724 1.89855812 1.42783086 1.92342003 2.12370609 1.41722812
2.32374591 2.85760141 1.63331438 2.83593204 1.75870531 1.24113037] and Actual value is [
1.9521, 1.6488, 3.6021400000000003, 2.2327, 0.89991, 2.6343, 1.7536, 2.74255, 2.025, 2.47
48900000000003, 2.4148400000000003, 1.9696099999999999, 1.59927, 1.851, 1.58782, 1.34759,
1.44395, 1.79293, 1.6944, 1.89894, 1.42766, 1.92313, 2.12367, 1.41723, 2.32407, 2.85737,
1.6332799999999998, 2.8360000000000003, 1.75873, 1.24074]

Mean absolute error:- 0.00024817035389282556

Mean squared error:- 8.178534472487276e-08

Root mean squared error:- 0.00028598137128993693

r2 Score:- 0.9999997437394944

At random state 69 the model performs very well

At random state 69

Training score is

0.9999997505906703

Predicted value is [2.45185104 1.88502641 1.96968081 2.24180521 2.85765986 2.43854117
1.21363915 2.11351866 1.59896291 2.31978085 2.1180731 2.5176232
2.26419153 1.62259933 1.41714438 2.23234599 2.63444138 2.04401906
1.73797081 2.2079577 1.24123603 1.76148217 2.12379948 3.08884374
2.80737418 2.32309843 1.44416476 1.94268776 2.75455608 1.97547384] and Actual value is [
2.4517599999999997, 1.8854099999999998, 1.9699400000000002, 2.24173, 2.85737, 2.43872, 1.
21305, 2.1139900000000003, 1.59927, 2.31945, 2.11773, 2.51767, 2.26425, 1.62215, 1.41723,
2.2327, 2.6343, 2.0438400000000003, 1.7379900000000001, 2.20857, 1.24074, 1.76145, 2.1236
7, 3.08854, 2.8079099999999997, 2.32323, 1.44395, 1.9429599999999998, 2.75414, 1.9757]

Mean absolute error:- 0.0002674481715170337

Mean squared error:- 1.0025064001655126e-07

Root mean squared error:- 0.00031662381467058233

r2 Score:- 0.9999995444708285

At random state 70 the model performs very well

At random state 70

Training score is

0.9999997256676115

Predicted value is [2.41449532 1.21362769 0.67145654 1.58830508 1.93111241 2.32384423
2.50954054 2.37154704 1.96969866 1.78528962 1.75876212 1.3810295
1.42794491 1.3473774 1.96939802 2.00079725 3.1071035 2.47493231
1.57036069 1.95852415 1.73929967 2.48656598 2.13140519 2.04408756
1.63812037 1.95246669 1.76141058 2.43852361 2.2470786 2.82362055] and Actual value is [
2.4148400000000003, 1.21305, 0.67108, 1.58782, 1.9312900000000002, 2.32407, 2.51011, 2.37
11900000000004, 1.9699400000000002, 1.78555, 1.75873, 1.38079, 1.42766, 1.34759, 1.969609
9999999999, 2.00073, 3.10712, 2.474890000000003, 1.57059, 1.95812, 1.7393299999999998, 2
.48676, 2.1309, 2.0438400000000003, 1.63794, 1.9521, 1.76145, 2.43872, 2.24743, 2.82334]

Mean absolute error:- 0.0002582699176260491
Mean squared error:- 9.021649369681027e-08
Root mean squared error:- 0.00030036060610008473
r2 Score:- 0.9999996405697236

At random state 71 the model performs very well
At random state 71
Training score is
0.999997355267706

Predicted value is [1.94943617 1.95848417 2.13139793 1.79311929 2.31978754 2.23233022
1.95260109 1.73926449 2.27556106 1.78524773 2.12510018 2.3231055
2.53341042 1.7383292 1.44421951 2.18862386 2.7905705 1.63816725
2.05104964 2.8359337 0.89941001 2.61958502 2.45190952 1.73795505
2.12375223 2.46565407 2.44850877 1.58827814 2.0901936 0.65450995] and Actual value is [
1.9493900000000002, 1.95812, 2.1309, 1.79293, 2.31945, 2.2327, 1.9521, 1.7393299999999998
, 2.27513, 1.78555, 2.12466, 2.32323, 2.5332, 1.73797, 1.44395, 2.18896, 2.79094, 1.63794
, 2.05125, 2.8360000000000003, 0.89991, 2.61955, 2.451759999999997, 1.7379900000000001,
2.12367, 2.4657, 2.44876, 1.58782, 2.090659999999997, 0.654289999999999]

Mean absolute error:- 0.0002650516193907955
Mean squared error:- 9.41746795227214e-08
Root mean squared error:- 0.0003068789330057073
r2 Score:- 0.999995935999432

At random state 72 the model performs very well
At random state 72
Training score is
0.99999720627548

Predicted value is [1.96965576 2.45358543 2.80738441 1.95593424 1.38095376 2.09980214
1.73927921 1.99171257 2.45182835 3.17756315 2.12372687 2.70212246
1.26495595 2.50956134 2.32130195 3.05127413 1.83345433 2.83594522
2.11550823 2.43854637 1.75331342 1.78522435 2.84823745 2.20142806
1.85994068 0.9984408 2.26643728 1.79312758 1.6331731 2.46552882] and Actual value is [
1.9699400000000002, 2.4537299999999997, 2.8079099999999997, 1.9563700000000002, 1.38079,
2.10017, 1.7393299999999998, 1.9917200000000002, 2.4517599999999997, 3.17728, 2.12367, 2.
70201, 1.26462, 2.51011, 2.3214200000000003, 3.05137, 1.83302, 2.8360000000000003, 2.1156
900000000003, 2.43872, 1.7536, 1.78555, 2.84848, 2.20173, 1.8604, 0.99895, 2.26646, 1.792
93, 1.6332799999999998, 2.4657]

Mean absolute error:- 0.00023558338076036615
Mean squared error:- 8.046311838029834e-08
Root mean squared error:- 0.0002836602164215108
r2 Score:- 0.999996959456725

At random state 73 the model performs very well
At random state 73
Training score is
0.999997249270915

Predicted value is [1.80036985 2.74282446 2.00074897 2.67777372 0.65446549 1.68154782
2.50960901 1.85106356 2.09975234 1.6162275 0.99842988 1.5716165
2.11556575 2.47496161 1.97546639 1.9584129 2.11002925 2.86701933
1.86001689 1.94270568 3.10723653 1.78526563 2.44217141 1.8765631
2.51768181 1.26499115 2.26645694 2.49198919 2.24708263 2.31980809] and Actual value is [
1.8010099999999998, 2.74255, 2.00073, 2.67782, 0.6542899999999999, 1.68135, 2.51011, 1.85
1, 2.10017, 1.6158299999999999, 0.99895, 1.5714, 2.1156900000000003, 2.4748900000000003,
1.9757, 1.95812, 2.11032, 2.86712, 1.8604, 1.9429599999999998, 3.1070900000000004, 1.7855
5, 2.44191, 1.8763400000000001, 2.51767, 1.26462, 2.26646, 2.4920400000000003, 2.24743, 2
.31945]

Mean absolute error:- 0.00024261467335145632
Mean squared error:- 8.464384757202235e-08
Root mean squared error:- 0.000290936157209829
r2 Score:- 0.999996930462363

At random state 74 the model performs very well
At random state 74
Training score is

0.9999997402131899
Predicted value is [3.05122834 2.06390925 2.05109761 1.87966125 1.97541407 2.76613049
1.78522059 2.50957005 1.444151 2.67616694 2.04402273 2.08474307
1.73797133 2.82364717 2.22002565 2.32131021 1.96936322 2.86698415
1.46168545 2.00075533 2.49195205 1.94928255 2.45365919 2.27408187
2.59440608 1.95293232 1.9696365 2.26415631 2.30872297 2.23234108] and Actual value is [
3.05137, 2.06367, 2.05125, 1.8799599999999999, 1.9757, 2.76579, 1.78555, 2.51011, 1.44395
, 2.67585, 2.0438400000000003, 2.08528, 1.7379900000000001, 2.82334, 2.21978, 2.321420000
0000003, 1.9696099999999999, 2.86712, 1.46181, 2.00073, 2.4920400000000003, 1.94939000000
00002, 2.4537299999999997, 2.27394, 2.5945, 1.95335, 1.9699400000000002, 2.26425, 2.30919
, 2.2327]

Mean absolute error:- 0.00023073434823461803
Mean squared error:- 7.294009313977702e-08
Root mean squared error:- 0.00027007423634952115
r2 Score:- 0.9999995185006956

At random state 75 the model performs very well

At random state 75

Training score is

0.999997217545105

Predicted value is [2.46558169 1.73833807 2.18860715 1.34726932 3.10704075 2.02477107
1.76143087 1.73922786 2.21119814 1.68160147 2.11811184 2.3087319
2.67770587 2.83591436 2.05118243 2.02487011 3.05127963 2.4920641
2.24621837 1.46184517 1.80032383 1.26491536 1.63808996 1.85994292
2.32376873 1.84409155 1.21357844 2.74277817 0.89934281 1.64834828] and Actual value is [
2.4657, 1.73797, 2.18896, 1.34759, 3.10712, 2.025, 1.76145, 1.7393299999999998, 2.21126,
1.68135, 2.11773, 2.30919, 2.67782, 2.8360000000000003, 2.05125, 2.0251799999999998, 3.05
137, 2.4920400000000003, 2.2463900000000003, 1.46181, 1.8010099999999998, 1.26462, 1.6379
4, 1.8604, 2.32407, 1.84408, 1.21305, 2.74255, 0.89991, 1.6488]

Mean absolute error:- 0.00024393516591074692

Mean squared error:- 9.222903277962378e-08

Root mean squared error:- 0.0003036923324346925

r2 Score:- 0.9999996766852833

At random state 76 the model performs very well

At random state 76

Training score is

0.999997112667256

Predicted value is [1.73832464 2.63436725 2.31981446 2.11347554 2.04397807 2.59435024
3.60174792 2.0847584 2.27408787 3.10720575 2.43854458 2.30867409
2.10996487 1.62259819 2.41449608 2.53340024 2.0250145 2.80730924
3.05115017 3.19105963 0.99849509 2.61948776 2.70216488 3.10705164
2.24708665 2.47493769 2.4483578 2.00075377 1.88523316 2.18864995] and Actual value is [
1.73797, 2.6343, 2.31945, 2.1139900000000003, 2.0438400000000003, 2.5945, 3.6021400000000
003, 2.08528, 2.27394, 3.1070900000000004, 2.43872, 2.30919, 2.11032, 1.62215, 2.41484000
00000003, 2.5332, 2.0251799999999998, 2.8079099999999997, 3.05137, 3.1913099999999996, 0.
99895, 2.61955, 2.70201, 3.10712, 2.24743, 2.4748900000000003, 2.44876, 2.00073, 1.885009
9999999999, 2.18896]

Mean absolute error:- 0.00027106065252849125

Mean squared error:- 9.932830548032048e-08

Root mean squared error:- 0.0003151639342950276

r2 Score:- 0.9999996265768432

At random state 77 the model performs very well

At random state 77

Training score is

0.999997212407054

Predicted value is [1.9311779 1.46179777 2.20796083 2.79883864 2.61949279 2.24187136
1.95072354 1.94268056 2.43855497 1.21366043 3.60181361 1.78521973
2.67617712 2.50959118 3.1070292 2.11349385 1.68162696 0.98180881
2.46553905 1.76152151 2.67773588 2.86691482 1.94933017 2.89317469
2.02482961 1.85995956 2.12502467 2.23766015 2.18861871 1.6948275] and Actual value is [
1.9312900000000002, 1.46181, 2.20857, 2.79832, 2.61955, 2.24173, 1.95071, 1.942959999999
998, 2.43872, 1.21305, 3.6021400000000003, 1.78555, 2.67585, 2.51011, 3.10712, 2.11399000
00000003, 1.68135, 0.98195, 2.4657, 1.76145, 2.67782, 2.86712, 1.9493900000000002, 2.8931
9, 2.025, 1.8604, 2.12466, 2.237409999999997, 2.18896, 1.6944]

Mean absolute error:- 0.0002539394640269199
Mean squared error:- 9.662785739884168e-08
Root mean squared error:- 0.0003108502169837455
r2 Score:- 0.9999996864048989

At random state 78 the model performs very well
At random state 78
Training score is
0.999997509782524
Predicted value is [0.67141181 1.92338804 2.24183902 2.18867389 1.75872105 2.0638851
2.30872415 2.43858851 2.27412835 2.2079864 1.59570528 1.86430007
0.89942377 2.32133809 2.44686541 2.20149593 1.63814452 1.86002105
2.24713418 3.26048069 2.24632126 1.9310886 2.11816043 2.12378111
1.73928153 1.86608839 2.13140875 2.371605 1.9507349 1.57166368] and Actual value is [
0.67108, 1.92313, 2.24173, 2.18896, 1.75873, 2.06367, 2.30919, 2.43872, 2.27394, 2.20857,
1.59541, 1.86399, 0.89991, 2.3214200000000003, 2.4464900000000003, 2.20173, 1.63794, 1.86
04, 2.24743, 3.26001, 2.2463900000000003, 1.9312900000000002, 2.11773, 2.12367, 1.7393299
99999998, 1.86565, 2.1309, 2.371190000000004, 1.95071, 1.5714]

Mean absolute error:- 0.00027407143213122135
Mean squared error:- 9.94150985875285e-08
Root mean squared error:- 0.0003153015994052813
r2 Score:- 0.99999532873759

At random state 79 the model performs very well
At random state 79
Training score is
0.999996866975706
Predicted value is [1.73931591 2.74283766 2.22005398 0.67144106 3.17766781 2.67782621
1.85106193 2.45363744 1.4650462 2.76616348 0.98177153 3.05124169
1.58828272 2.44844363 2.7545559 3.03487283 2.3198736 1.46176063
2.41454651 1.99174339 1.61627552 1.89858809 1.21360957 2.18871881
1.41713803 3.0889066 3.26048012 2.30873715 1.79312418 2.08476255] and Actual value is [
1.7393299999999998, 2.74255, 2.21978, 0.67108, 3.17728, 2.67782, 1.851, 2.453729999999999
7, 1.46494, 2.76579, 0.98195, 3.05137, 1.58782, 2.44876, 2.75414, 3.035, 2.31945, 1.46181
, 2.4148400000000003, 1.9917200000000002, 1.6158299999999999, 1.89894, 1.21305, 2.18896,
1.41723, 3.08854, 3.26001, 2.30919, 1.79293, 2.08528]

Mean absolute error:- 0.0002691709136376323
Mean squared error:- 9.967389039148912e-08
Root mean squared error:- 0.00031571172038980297
r2 Score:- 0.999997774700887

At random state 80 the model performs very well
At random state 80
Training score is
0.999997304286212
Predicted value is [1.87659166 2.74282358 2.61949517 3.05131846 2.82367907 2.32131975
1.93117668 3.10731161 2.53921815 2.05116218 2.50960556 2.41449481
2.8359849 2.4919743 1.88959952 1.57164298 2.6777886 2.43247214
2.76618129 2.79887721 2.20801534 1.84416914 2.59442272 2.24630803
1.83350138 2.32308623 2.63450555 1.8660859 2.44684645 2.11553237] and Actual value is [
1.8763400000000001, 2.74255, 2.61955, 3.05137, 2.82334, 2.3214200000000003, 1.93129000000
00002, 3.1070900000000004, 2.5394200000000002, 2.05125, 2.51011, 2.4148400000000003, 2.83
60000000000003, 2.4920400000000003, 1.8893099999999998, 1.5714, 2.67782, 2.43209, 2.76579
, 2.79832, 2.20857, 1.84408, 2.5945, 2.2463900000000003, 1.83302, 2.32323, 2.6343, 1.8656
5, 2.4464900000000003, 2.1156900000000003]

Mean absolute error:- 0.00023680824493980493
Mean squared error:- 8.252484214371198e-08
Root mean squared error:- 0.00028727137369343294
r2 Score:- 0.9999994607014031

At random state 81 the model performs very well
At random state 81
Training score is
0.999997204111225

Predicted value is [1.59858571 2.31975662 2.23770468 1.8796702 3.60190285 1.73834059
2.45367602 2.84825712 1.88500127 2.00080285 1.87660385 3.10737431
2.61957992 2.47501077 1.59580649 1.68156697 2.05115962 1.95849645
2.44681182 2.02496517 2.74278878 2.37161401 2.50961854 0.99846648
2.76617527 2.63445382 2.18862804 3.03486866 2.67618363 1.69483844] and Actual value is [
1.5988799999999999, 2.31945, 2.2374099999999997, 1.8799599999999999, 3.6021400000000003,
1.73797, 2.4537299999999997, 2.84848, 1.8854099999999998, 2.00073, 1.8763400000000001, 3.
1070900000000004, 2.61955, 2.4748900000000003, 1.59541, 1.68135, 2.05125, 1.95812, 2.4464
900000000003, 2.02517999999998, 2.74255, 2.3711900000000004, 2.51011, 0.99895, 2.76579,
2.6343, 2.18896, 3.035, 2.67585, 1.6944]

Mean absolute error:- 0.0002759876570653278

Mean squared error:- 9.183371196186623e-08

Root mean squared error:- 0.00030304077607125123

r2 Score:- 0.9999996827128802

At random state 82 the model performs very well

At random state 82

Training score is

0.999997301764406

Predicted value is [1.7851796 2.09027214 2.31970983 2.49198258 2.67614295 2.22003853
2.00079167 2.63440466 1.68155756 1.88958186 1.86965306 2.18859454
2.05108727 1.96966689 2.80739598 3.60185873 2.89317487 2.59439196
2.1237444 1.89858927 1.6483474 2.86693313 2.41450032 1.94268655
2.10993227 1.59575595 2.74276573 2.02496082 1.71923903 2.02483303] and Actual value is [
1.78555, 2.0906599999999997, 2.31945, 2.4920400000000003, 2.67585, 2.21978, 2.00073, 2.63
43, 1.68135, 1.8893099999999998, 1.8698400000000002, 2.18896, 2.05125, 1.9699400000000002
, 2.8079099999999997, 3.6021400000000003, 2.89319, 2.5945, 2.12367, 1.89894, 1.6488, 2.86
712, 2.4148400000000003, 1.9429599999999998, 2.11032, 1.59541, 2.74255, 2.025179999999999
8, 1.7195599999999998, 2.025]

Mean absolute error:- 0.00025045686707385605

Mean squared error:- 7.73873427752101e-08

Root mean squared error:- 0.0002781858062073083

r2 Score:- 0.9999996225900105

At random state 83 the model performs very well

At random state 83

Training score is

0.999997445372003

Predicted value is [1.884997 2.41452455 1.41709746 2.85764828 2.11807883 1.71916644
1.64836291 1.9754372 2.67615496 1.78521479 3.17767543 2.59442891
1.58822788 3.05114735 1.95250115 1.95287517 2.32132532 2.09018838
2.00078267 2.27554209 0.99837453 2.80747156 2.86701104 2.4384828
2.22004691 3.08888072 2.53924395 2.20783577 1.38088429 2.51779787] and Actual value is [
1.8854099999999998, 2.4148400000000003, 1.41723, 2.85737, 2.11773, 1.7195599999999998, 1.
6488, 1.9757, 2.67585, 1.78555, 3.17728, 2.5945, 1.58782, 3.05137, 1.9521, 1.95335, 2.321
4200000000003, 2.0906599999999997, 2.00073, 2.27513, 0.99895, 2.8079099999999997, 2.86712
, 2.43872, 2.21978, 3.08854, 2.539420000000002, 2.20857, 1.38079, 2.51767]

Mean absolute error:- 0.0003108645923233677

Mean squared error:- 1.2163460929927413e-07

Root mean squared error:- 0.0003487615364389745

r2 Score:- 0.999995739611154

At random state 84 the model performs very well

At random state 84

Training score is

0.999997315244937

Predicted value is [2.74286281 1.24111466 1.95846837 2.47499349 2.26424652 1.6483831
2.09973839 2.85769613 2.70217438 2.1887125 1.34735491 2.44224435
1.95286915 2.11560999 1.87657832 1.75867781 2.23781265 1.80032798
1.79319731 1.38097627 2.83600826 3.17768755 2.11813878 1.4651159
2.31979929 2.12501353 1.86972585 1.87887627 1.84415579 0.98177785] and Actual value is [
2.74255, 1.24074, 1.95812, 2.4748900000000003, 2.26425, 1.6488, 2.10017, 2.85737, 2.70201
, 2.18896, 1.34759, 2.44191, 1.95335, 2.1156900000000003, 1.8763400000000001, 1.75873, 2.
2374099999999997, 1.8010099999999998, 1.79293, 1.38079, 2.8360000000000003, 3.17728, 2.11
773, 1.46494, 2.31945, 2.12466, 1.8698400000000002, 1.87877, 1.84408, 0.98195]

Mean absolute error:- 0.0002620016747138595
Mean squared error:- 9.311823440579509e-08
Root mean squared error:- 0.0003051528050105309
r2 Score:- 0.999999631183457

At random state 85 the model performs very well
At random state 85
Training score is
0.999999732596025
Predicted value is [1.44422727 1.38103424 2.06392768 3.08887145 2.1135734 1.46181924
2.82365413 2.45363522 2.74282295 1.88524087 1.73833147 1.86436003
2.11561081 1.68430668 1.41721138 2.89326823 1.94277078 2.31987643
1.952503 2.44222221 1.58828339 2.23772839 2.09980468 2.11008694
1.95846208 1.99181005 1.46511083 2.53919712 1.2136213 2.21123323] and Actual value is [
1.44395, 1.38079, 2.06367, 3.08854, 2.1139900000000003, 1.46181, 2.82334, 2.4537299999999999
997, 2.74255, 1.8850099999999999, 1.73797, 1.86399, 2.1156900000000003, 1.68435, 1.41723,
2.89319, 1.9429599999999998, 2.31945, 1.9521, 2.44191, 1.58782, 2.2374099999999997, 2.100
17, 2.11032, 1.95812, 1.9917200000000002, 1.46494, 2.5394200000000002, 1.21305, 2.21126]

Mean absolute error:- 0.00025116674778801563
Mean squared error:- 8.388629257593483e-08
Root mean squared error:- 0.00028963130455103575
r2 Score:- 0.9999996251302412

At random state 86 the model performs very well
At random state 86
Training score is
0.9999997401687905
Predicted value is [2.31981462 2.20785267 2.32132193 2.27415769 2.70218379 1.59894523
2.59442182 1.94929956 1.9507477 2.75456937 2.26416157 1.26503073
1.41712831 3.03485357 2.0847305 1.42782337 2.44685797 0.89941823
2.26643025 1.94269599 2.24708827 1.46501645 2.12380205 2.4484339
1.58827168 1.89856989 1.64840121 2.10986504 2.50987888 2.89323654] and Actual value is [
2.31945, 2.20857, 2.3214200000000003, 2.27394, 2.70201, 1.59927, 2.5945, 1.949390000000000
02, 1.95071, 2.75414, 2.26425, 1.26462, 1.41723, 3.035, 2.08528, 1.42766, 2.44649000000000
003, 0.89991, 2.26646, 1.9429599999999998, 2.24743, 1.46494, 2.12367, 2.44876, 1.58782, 1
.89894, 1.6488, 2.11032, 2.51009, 2.89319]

Mean absolute error:- 0.00026517005216635615
Mean squared error:- 1.0083908720419613e-07
Root mean squared error:- 0.00031755170792202667
r2 Score:- 0.9999995937725108

At random state 87 the model performs very well
At random state 87
Training score is
0.9999997220209476
Predicted value is [2.3716038 1.9233899 1.42790995 1.69481985 1.57035802 3.10710771
2.7906388 1.79316721 2.53918191 1.85112768 2.41451782 2.8359396
2.67773872 2.486603 2.31982587 2.53340924 1.96945691 1.85999688
2.09981022 2.43858049 1.58828219 0.65453872 2.43245318 2.11561688
2.46518195 2.70215157 1.87660637 2.11817665 2.86709191 2.13139615] and Actual value is [
2.371190000000004, 1.92313, 1.42766, 1.6944, 1.57059, 3.10712, 2.79094, 1.79293, 2.53942
0000000002, 1.851, 2.4148400000000003, 2.8360000000000003, 2.67782, 2.48676, 2.31945, 2.
5332, 1.9696099999999999, 1.8604, 2.10017, 2.43872, 1.58782, 0.6542899999999999, 2.43209,
2.1156900000000003, 2.4653099999999997, 2.70201, 1.8763400000000001, 2.11773, 2.86712, 2.
1309]

Mean absolute error:- 0.0002469165469111319
Mean squared error:- 7.922149713288455e-08
Root mean squared error:- 0.0002814631363658206
r2 Score:- 0.9999996935587837

At random state 88 the model performs very well
At random state 88
Training score is
0.9999997575077455
Predicted value is [2.02481638 2.50995811 3.03485552 2.32132059 1.61618799 1.96966847

1.86607919 1.95597822 1.68159082 2.86707751 3.26045494 2.59438968
2.09025208 1.5882725 2.11814225 2.08475336 2.84824628 2.50955744
1.94937019 1.97542538 2.24710054 1.95248243 2.44221296 2.79880361
1.59574438 1.80038223 3.19110564 1.86971518 2.44681597 2.51770725] and Actual value is [
2.025, 2.51009, 3.035, 2.3214200000000003, 1.6158299999999999, 1.9699400000000002, 1.8656
5, 1.9563700000000002, 1.68135, 2.86712, 3.26001, 2.5945, 2.0906599999999997, 1.58782, 2.
11773, 2.08528, 2.84848, 2.51011, 1.9493900000000002, 1.9757, 2.24743, 1.9521, 2.44191, 2
.79832, 1.59541, 1.801009999999998, 3.191309999999996, 1.8698400000000002, 2.4464900000
000003, 2.51767]

Mean absolute error:- 0.0002960496738268814

Mean squared error:- 1.1323189887088127e-07

Root mean squared error:- 0.0003364994782624206

r2 Score:- 0.999999484723903

At random state 89 the model performs very well

At random state 89

Training score is

0.9999997691369551

Predicted value is [2.86701047 2.20791773 2.53917052 1.86610033 1.69484823 2.11809515
2.11353578 1.62256514 2.37157592 2.41452098 2.12375307 1.46183109
2.11560942 2.50967336 1.4278609 3.17761595 1.95597423 1.2649919
2.46563861 1.97552872 2.31987569 1.73803225 1.63817746 2.26425826
1.85999925 2.23768421 1.80034887 1.87876078 2.76614229 2.45191595] and Actual value is [
2.86712, 2.20857, 2.5394200000000002, 1.86565, 1.6944, 2.11773, 2.1139900000000003, 1.622
15, 2.3711900000000004, 2.4148400000000003, 2.12367, 1.46181, 2.1156900000000003, 2.51011
, 1.42766, 3.17728, 1.9563700000000002, 1.26462, 2.4657, 1.9757, 2.31945, 1.73799000000000
001, 1.63794, 2.26425, 1.8604, 2.237409999999997, 1.801009999999998, 1.87877, 2.76579,
2.4517599999999997]

Mean absolute error:- 0.0002858354871277872

Mean squared error:- 1.1375693644548423e-07

Root mean squared error:- 0.0003372787221949885

r2 Score:- 0.99999939812226

At random state 90 the model performs very well

At random state 90

Training score is

0.9999997184783778

Predicted value is [1.73925463 1.96942184 3.26042807 3.05120679 2.30874685 2.21998747
1.26499716 2.86696413 3.10706962 1.34731216 1.92339419 3.19108621
2.51770039 2.05112786 2.23771208 2.20787397 1.79311558 2.11557598
0.67142159 1.80034146 1.87965534 1.41719682 1.88956016 1.64838827
1.83337667 1.95595644 1.84413463 2.63445691 2.08471112 2.84826362] and Actual value is [
1.739329999999998, 1.969609999999999, 3.26001, 3.05137, 2.30919, 2.21978, 1.26462, 2.86
712, 3.10712, 1.34759, 1.92313, 3.191309999999996, 2.51767, 2.05125, 2.237409999999997,
2.20857, 1.79293, 2.1156900000000003, 0.67108, 1.801009999999998, 1.879959999999999, 1.
41723, 1.88930999999998, 1.6488, 1.83302, 1.9563700000000002, 1.84408, 2.6343, 2.08528,
2.84848]

Mean absolute error:- 0.0002690595292629087

Mean squared error:- 1.0243428302957951e-07

Root mean squared error:- 0.00032005356275095504

r2 Score:- 0.9999997135638686

At random state 91 the model performs very well

At random state 91

Training score is

0.9999997241663641

Predicted value is [2.43241265 1.34727033 1.24103091 1.80030412 1.73921639 3.10713743
2.18864253 2.84827083 1.62247898 1.57028862 2.4651774 2.24623043
1.41714003 2.09021079 1.9697447 1.9529071 0.89928425 2.27547249
3.10733645 2.24712383 2.23772133 2.44852374 2.67616553 1.93104192
2.24707444 1.88525447 2.45190358 2.24186616 0.99835397 3.05127729] and Actual value is [
2.43209, 1.34759, 1.24074, 1.80100999999998, 1.739329999999998, 3.10712, 2.18896, 2.84
848, 1.62215, 1.57059, 2.465309999999997, 2.2463900000000003, 1.41723, 2.090659999999999
7, 1.9699400000000002, 1.95335, 0.89991, 2.27513, 3.107090000000004, 2.24743, 2.23740999
99999997, 2.44876, 2.67585, 1.9312900000000002, 2.24729, 1.885009999999999, 2.4517599999
999997, 2.24173, 0.99895, 3.05137]

Mean absolute error:- 0.00028190977372558973
Mean squared error:- 1.0398904434753179e-07
Root mean squared error:- 0.00032247332346650286
r2 Score:- 0.9999996790181077

At random state 92 the model performs very well
At random state 92
Training score is
0.9999996852853474
Predicted value is [2.74279331 1.64838994 2.11557615 0.65446829 1.8334314 1.8441031
1.78524678 1.93111557 1.68424195 1.69486787 3.60187277 1.3473197
1.86429441 1.95595741 1.57035252 1.41721881 1.8985554 2.31979966
2.11003085 3.26045279 2.79074392 3.19109608 1.92341103 2.5174937
2.79881351 1.42781393 2.27551432 2.89332055 1.88526623 2.61952777] and Actual value is [
2.74255, 1.6488, 2.1156900000000003, 0.6542899999999999, 1.83302, 1.84408, 1.78555, 1.931
29000000000002, 1.68435, 1.6944, 3.6021400000000003, 1.34759, 1.86399, 1.9563700000000002,
1.57059, 1.41723, 1.89894, 2.31945, 2.11032, 3.26001, 2.79094, 3.191309999999996, 1.9231
3, 2.5173799999999997, 2.79832, 1.42766, 2.27513, 2.89319, 1.8850099999999999, 2.61955]
Mean absolute error:- 0.00025494873788052633
Mean squared error:- 8.27605840487332e-08
Root mean squared error:- 0.00028768139329600934
r2 Score:- 0.999999795908624

At random state 93 the model performs very well
At random state 93
Training score is
0.9999997216824361
Predicted value is [1.8441027 3.0512187 1.85102764 1.75868582 1.598589 2.11349411
1.85995477 2.80742698 2.21120206 2.70216138 1.73926702 1.86966354
2.86697397 1.64839488 1.95247335 2.08475854 0.65449294 1.94269995
3.17758133 1.96971328 1.95592065 1.68155971 1.73799501 2.7661512
2.74278056 1.96943979 2.83594099 1.86425287 2.37155984 2.18861885] and Actual value is [
1.84408, 3.05137, 1.851, 1.75873, 1.5988799999999999, 2.1139900000000003, 1.8604, 2.80790
99999999997, 2.21126, 2.70201, 1.7393299999999998, 1.8698400000000002, 2.86712, 1.6488, 1
.9521, 2.08528, 0.6542899999999999, 1.9429599999999998, 3.17728, 1.9699400000000002, 1.95
63700000000002, 1.68135, 1.7379900000000001, 2.76579, 2.74255, 1.9696099999999999, 2.8360
000000000003, 1.86399, 2.3711900000000004, 2.18896]
Mean absolute error:- 0.00024352081966666123
Mean squared error:- 8.272193882550458e-08
Root mean squared error:- 0.0002876142187470998
r2 Score:- 0.9999997073388484

At random state 94 the model performs very well
At random state 94
Training score is
0.9999997136354722
Predicted value is [1.95074304 2.89325365 1.42780839 2.44680168 1.57028539 2.00077415
1.9754641 2.63447469 2.59437507 0.89934805 2.21997009 2.02478727
2.26422785 1.86606281 1.95590461 2.8236548 1.73832554 1.73797457
1.59855047 1.85996561 1.59891249 2.83596201 2.21122282 1.78520419
2.5099558 1.95291891 2.51752284 3.60187047 2.2322874 2.84826839] and Actual value is [
1.95071, 2.89319, 1.42766, 2.4464900000000003, 1.57059, 2.00073, 1.9757, 2.6343, 2.5945,
0.89991, 2.21978, 2.025, 2.26425, 1.86565, 1.9563700000000002, 2.82334, 1.73797, 1.737990
0000000001, 1.5988799999999999, 1.8604, 1.59927, 2.8360000000000003, 2.21126, 1.78555, 2.
51009, 1.95335, 2.5173799999999997, 3.6021400000000003, 2.2327, 2.84848]
Mean absolute error:- 0.00023787328414448528
Mean squared error:- 7.968835998850557e-08
Root mean squared error:- 0.0002822912679990395
r2 Score:- 0.9999997262934087

At random state 95 the model performs very well
At random state 95
Training score is
0.9999997328143679

Predicted value is [1.24121708 2.86708712 1.57169901 3.08888468 2.82364505 1.41716085
1.99175299 1.85109645 2.47496058 2.06394893 2.02503328 2.08479514
2.41452995 1.73795499 1.46507338 2.24186147 1.86612119 2.13141118
1.59898895 2.7661664 2.20147735 1.62260938 2.32381029 1.96941524
2.79073523 2.5174959 2.63445564 1.89857989 3.26048498 1.58829485] and Actual value is [
1.24074, 2.86712, 1.5714, 3.08854, 2.82334, 1.41723, 1.9917200000000002, 1.851, 2.4748900
000000003, 2.06367, 2.0251799999999998, 2.08528, 2.4148400000000003, 1.7379900000000001,
1.46494, 2.24173, 1.86565, 2.1309, 1.59927, 2.76579, 2.20173, 1.62215, 2.32407, 1.9696099
999999999, 2.79094, 2.517379999999997, 2.6343, 1.89894, 3.26001, 1.58782]

Mean absolute error:- 0.00026136170907937

Mean squared error:- 9.205127127369957e-08

Root mean squared error:- 0.00030339952418172904

r2 Score:- 0.9999996552897437

At random state 96 the model performs very well

At random state 96

Training score is

0.9999997143407534

Predicted value is [2.32131549 2.02497005 1.68423625 3.05131556 2.86709243 3.10714196
2.6195505 1.864281 2.32309228 1.75330443 2.75453906 2.82365042
3.26050414 1.99174308 2.4468561 2.85765798 2.49205382 2.11349388
2.83598676 2.67619871 2.20141378 2.44842092 1.84408392 1.89850676
1.85992507 2.23768368 0.98162947 1.95072833 1.80037166 2.46519574] and Actual value is [
2.3214200000000003, 2.025179999999998, 1.68435, 3.05137, 2.86712, 3.10712, 2.61955, 1.86
399, 2.32323, 1.7536, 2.75414, 2.82334, 3.26001, 1.9917200000000002, 2.4464900000000003,
2.85737, 2.4920400000000003, 2.1139900000000003, 2.8360000000000003, 2.67585, 2.20173, 2.
44876, 1.84408, 1.89894, 1.8604, 2.237409999999997, 0.98195, 1.95071, 1.801009999999998
, 2.4653099999999997]

Mean absolute error:- 0.00023140595411500116

Mean squared error:- 8.584288381595544e-08

Root mean squared error:- 0.0002929895626399607

r2 Score:- 0.9999996627326946

At random state 97 the model performs very well

At random state 97

Training score is

0.999999733299772

Predicted value is [1.86969243 1.34726386 2.11555004 2.46557156 3.19111259 1.95595086
1.46505139 2.44218279 2.24185415 1.94273241 2.0847869 1.99180388
2.47498745 2.1181409 1.96969252 2.2014744 1.24110653 2.51750581
2.53337028 2.79072081 2.27546517 1.59855513 1.59578868 1.88496903
2.30873084 1.63326974 0.89936328 1.75872019 2.75456048 1.84411518] and Actual value is [
1.8698400000000002, 1.34759, 2.1156900000000003, 2.4657, 3.191309999999996, 1.9563700000
000002, 1.46494, 2.44191, 2.24173, 1.942959999999998, 2.08528, 1.9917200000000002, 2.474
8900000000003, 2.11773, 1.9699400000000002, 2.20173, 1.24074, 2.517379999999997, 2.5332,
2.79094, 2.27513, 1.598879999999999, 1.59541, 1.885409999999998, 2.30919, 1.63327999999
9998, 0.89991, 1.75873, 2.75414, 1.84408]

Mean absolute error:- 0.0002508707258387921

Mean squared error:- 8.529791823424326e-08

Root mean squared error:- 0.0002920580733933634

r2 Score:- 0.9999996399896497

At random state 98 the model performs very well

At random state 98

Training score is

0.9999997009059908

Predicted value is [0.98178517 1.85995061 1.87965338 2.00073678 2.11010504 0.67144898
1.616203 3.10726178 1.21361883 2.50961042 1.88501287 1.71925261
1.86428779 1.57165441 1.95070679 2.06396036 2.24192613 2.08475465
0.65454991 1.73832006 2.24706708 2.41448096 2.61949386 2.67772552
3.08882342 1.78527935 1.6381361 1.59861986 2.26424455 1.5703634] and Actual value is [
0.98195, 1.8604, 1.879959999999999, 2.00073, 2.11032, 0.67108, 1.615829999999999, 3.107
0900000000004, 1.21305, 2.51011, 1.885409999999998, 1.719559999999998, 1.86399, 1.5714,
1.95071, 2.06367, 2.24173, 2.08528, 0.654289999999999, 1.73797, 2.24729, 2.4148400000000
003, 2.61955, 2.67782, 3.08854, 1.78555, 1.63794, 1.598879999999999, 2.26425, 1.57059]

Mean absolute error:- 0.0002660474782814874
Mean squared error:- 9.145197053035339e-08
Root mean squared error:- 0.0003024102685597058
r2 Score:- 0.9999997260110925

At random state 99 the model performs very well
At random state 99
Training score is
0.9999997329874193

Predicted value is [0.98176991 2.26421502 2.89322659 1.78523247 2.45186022 1.73929436
1.87965818 1.95301947 2.84824239 1.86426118 1.75872354 2.11001524
1.95072575 1.21359088 1.59573133 1.9694402 2.26646266 2.20143949
2.63443594 1.69486083 1.26498308 2.24710956 1.73833893 1.85997482
2.44843559 2.46557676 1.68427818 1.95250114 1.8850251 2.04400041] and Actual value is [0.98195, 2.26425, 2.89319, 1.78555, 2.4517599999999997, 1.7393299999999998, 1.8799599999999999, 1.95335, 2.84848, 1.86399, 1.75873, 2.11032, 1.95071, 1.21305, 1.59541, 1.9696099999999999, 2.26646, 2.20173, 2.6343, 1.6944, 1.26462, 2.24729, 1.73797, 1.8604, 2.44876, 2.4657, 1.68435, 1.9521, 1.8854099999999998, 2.04384000000000003]

Mean absolute error:- 0.0002299555212175508
Mean squared error:- 7.507255442221336e-08
Root mean squared error:- 0.0002739937123771518
r2 Score:- 0.9999996022565742

At random state 100 the model performs very well
At random state 100
Training score is
0.9999996971932856

Predicted value is [0.89935533 3.17766196 2.50990081 3.26051311 1.46171686 1.95842694
2.31980449 2.70219488 1.95596621 2.53923344 2.74282737 2.8670508
2.67621295 2.83600197 1.41712486 2.48660449 1.59857753 3.10736587
1.75870938 2.27548071 2.80746814 2.85766096 1.46501683 2.67780539
1.58823641 1.83338473 1.63809542 1.96973927 2.23234281 1.78522236] and Actual value is [0.89991, 3.17728, 2.51009, 3.26001, 1.46181, 1.95812, 2.31945, 2.70201, 1.9563700000000002, 2.5394200000000002, 2.74255, 2.86712, 2.67585, 2.8360000000000003, 1.41723, 2.48676, 1.5988799999999999, 3.1070900000000004, 1.75873, 2.27513, 2.8079099999999997, 2.85737, 1.46494, 2.67782, 1.58782, 1.83302, 1.63794, 1.9699400000000002, 2.2327, 1.78555]

Mean absolute error:- 0.00025756420436815847
Mean squared error:- 8.781945827157997e-08
Root mean squared error:- 0.00029634348022451913
r2 Score:- 0.999999758623443

At random state 101 the model performs very well
At random state 101
Training score is
0.9999997294735367

Predicted value is [1.96943255 2.59439389 1.59568564 1.73931118 2.31979195 2.06395832
1.8985809 2.50994568 1.58826632 2.70218922 1.85995639 1.76149955
2.85763965 1.84416624 1.21364031 1.68157632 1.78526047 1.24121016
2.89321189 2.43858034 2.43246643 2.23770583 2.45360855 2.24631031
1.6842948 2.11554936 2.11351977 2.76615531 0.89943942 1.46505493] and Actual value is [1.9696099999999999, 2.5945, 1.59541, 1.7393299999999998, 2.31945, 2.06367, 1.89894, 2.5109, 1.58782, 2.70201, 1.8604, 1.76145, 2.85737, 1.84408, 1.21305, 1.68135, 1.78555, 1.24074, 2.89319, 2.43872, 2.43209, 2.2374099999999997, 2.4537299999999997, 2.2463900000000003, 1.68435, 2.1156900000000003, 2.1139900000000003, 2.76579, 0.89991, 1.46494]

Mean absolute error:- 0.0002471490554493657
Mean squared error:- 8.555198302664982e-08
Root mean squared error:- 0.0002924927059375153
r2 Score:- 0.9999996569553765

At random state 102 the model performs very well
At random state 102
Training score is
0.9999997286556771

Predicted value is [2.47495983 3.08891373 1.85106853 2.26425256 1.44417511 1.88961265
1.80039971 1.92335452 3.17767554 1.71925387 2.12380742 2.74284333

2.61952666 2.49201569 2.67781332 2.50989622 2.82366728 1.62257709
1.84416787 2.02502182 1.7533731 1.95600656 1.24117652 1.57165364
1.96941306 2.80743717 1.46172206 2.31989909 1.5989417 1.86435864] and Actual value is [
2.4748900000000003, 3.08854, 1.851, 2.26425, 1.44395, 1.8893099999999998, 1.801009999999999
998, 1.92313, 3.17728, 1.7195599999999998, 2.12367, 2.74255, 2.61955, 2.4920400000000003,
2.67782, 2.51009, 2.82334, 1.62215, 1.84408, 2.0251799999999998, 1.7536, 1.956370000000000
02, 1.24074, 1.5714, 1.9696099999999999, 2.8079099999999997, 1.46181, 2.31945, 1.59927, 1
.86399]

Mean absolute error:- 0.00024808073611607047
Mean squared error:- 8.614597815760963e-08
Root mean squared error:- 0.00029350635113675077
r2 Score:- 0.9999996640697658

At random state 103 the model performs very well
At random state 103
Training score is
0.9999997499799599

Predicted value is [2.75456499 2.41447517 2.11353354 1.83347814 1.84414118 1.61616799
1.57035031 1.26493774 2.11551882 2.82366994 2.26643893 1.63328092
1.94272948 2.53919477 2.51771473 1.99180987 2.76618669 1.95297649
1.88500592 2.09979262 2.26418619 0.89936463 1.95251649 2.21117782
1.86963244 2.43243043 2.00074984 1.85107734 2.46512491 1.85996761] and Actual value is [
2.75414, 2.4148400000000003, 2.1139900000000003, 1.83302, 1.84408, 1.6158299999999999, 1.
57059, 1.26462, 2.1156900000000003, 2.82334, 2.26646, 1.6332799999999998, 1.9429599999999
998, 2.5394200000000002, 2.51767, 1.9917200000000002, 2.76579, 1.95335, 1.885409999999999
8, 2.10017, 2.26425, 0.89991, 1.9521, 2.21126, 1.8698400000000002, 2.43209, 2.00073, 1.85
1, 2.4653099999999997, 1.8604]

Mean absolute error:- 0.0002565547538660118
Mean squared error:- 9.105898461495573e-08
Root mean squared error:- 0.0003017598127898341
r2 Score:- 0.9999994974590787

At random state 104 the model performs very well
At random state 104
Training score is
0.9999997103816082

Predicted value is [2.85757428 2.41449816 3.08883154 2.43248482 1.95848452 0.65450441
2.32375022 1.95253698 1.73927428 1.64834366 2.12371501 2.45366582
1.63808316 1.42778518 2.27407979 2.53919976 2.18859082 1.75329103
2.51770456 1.96972259 1.34728204 1.73835006 1.71928436 1.8853274
1.63325636 2.2014346 2.61955424 2.32130525 2.51751379 2.89324219] and Actual value is [
2.85737, 2.4148400000000003, 3.08854, 2.43209, 1.95812, 0.6542899999999999, 2.32407, 1.95
21, 1.7393299999999998, 1.6488, 2.12367, 2.4537299999999997, 1.63794, 1.42766, 2.27394, 2
.5394200000000002, 2.18896, 1.7536, 2.51767, 1.9699400000000002, 1.34759, 1.73797, 1.7195
599999999998, 1.8850099999999999, 1.6332799999999998, 2.20173, 2.61955, 2.321420000000000
3, 2.5173799999999997, 2.89319]

Mean absolute error:- 0.0002217658274150843
Mean squared error:- 6.703606495705612e-08
Root mean squared error:- 0.0002589132382808112
r2 Score:- 0.9999997437369496

At random state 105 the model performs very well
At random state 105
Training score is
0.9999997314083298

Predicted value is [2.08474085 2.13134853 1.8986083 1.3473409 2.59442178 1.41717968
2.74283427 2.4384895 1.92341825 2.63444712 1.68431452 3.60187527
1.76146564 1.69482444 3.10726147 2.20786981 2.61952554 1.991821
2.44215182 2.26645653 1.94271425 2.12508085 1.71923307 3.10712219
2.1180826 1.26502874 1.85108455 1.58826606 1.95288787 2.22003672] and Actual value is [
2.08528, 2.1309, 1.89894, 1.34759, 2.5945, 1.41723, 2.74255, 2.43872, 1.92313, 2.6343, 1.
68435, 3.6021400000000003, 1.76145, 1.6944, 3.1070900000000004, 2.20857, 2.61955, 1.99172
000000000002, 2.44191, 2.26646, 1.9429599999999998, 2.12466, 1.7195599999999998, 3.10712,
2.11773, 1.26462, 1.851, 1.58782, 1.95335, 2.21978]

Mean absolute error:- 0.00025454687738564924

Mean squared error:- 9.577796620666599e-08
Root mean squared error:- 0.0003094801547864838
r2 Score:- 0.9999996616849418

At random state 106 the model performs very well
At random state 106
Training score is
0.9999997096608184

Predicted value is [2.50994219 2.83599146 2.46515754 2.45188032 2.24630989 2.24709271
2.85765479 1.88521858 2.09980595 2.79883786 1.86426301 2.05109175
3.17763455 1.34732613 2.32307888 1.96939786 1.73927402 1.46173511
2.76617254 1.6381006 2.04403535 1.73796725 2.43247014 2.59440583
1.68426918 1.73829974 2.24710462 1.59856171 2.0248631 0.98168546] and Actual value is [
2.51009, 2.8360000000000003, 2.4653099999999997, 2.4517599999999997, 2.2463900000000003,
2.24743, 2.85737, 1.8850099999999999, 2.10017, 2.79832, 1.86399, 2.05125, 3.17728, 1.3475
9, 2.32323, 1.9696099999999999, 1.7393299999999998, 1.46181, 2.76579, 1.63794, 2.04384000
00000003, 1.7379900000000001, 2.43209, 2.5945, 1.68435, 1.73797, 2.24729, 1.59887999999999
999, 2.025, 0.98195]

Mean absolute error:- 0.00021056166442507963
Mean squared error:- 5.934954754591627e-08
Root mean squared error:- 0.00024361762568811862
r2 Score:- 0.9999997614040573

At random state 107 the model performs very well
At random state 107
Training score is
0.9999997428234945

Predicted value is [2.000752 2.41449198 1.85995587 2.11810523 2.82362745 2.24628781
2.31980878 0.67144736 1.99176884 1.2136349 2.20799246 2.79882481
2.67773809 1.42785273 2.76614507 1.73804948 1.9493571 2.32379209
2.220016 2.86698903 1.58825094 2.46516009 2.23232501 2.2014409
1.71928045 1.63324014 1.88525927 2.24710825 2.89321249 2.30873091] and Actual value is [
2.00073, 2.4148400000000003, 1.8604, 2.11773, 2.82334, 2.2463900000000003, 2.31945, 0.671
08, 1.9917200000000002, 1.21305, 2.20857, 2.79832, 2.67782, 1.42766, 2.76579, 1.737990000
0000001, 1.9493900000000002, 2.32407, 2.21978, 2.86712, 1.58782, 2.4653099999999997, 2.23
27, 2.20173, 1.7195599999999998, 1.6332799999999998, 1.8850099999999999, 2.24743, 2.89319
, 2.30919]

Mean absolute error:- 0.0002668395362746693
Mean squared error:- 9.87655066347494e-08
Root mean squared error:- 0.00031426979911335643
r2 Score:- 0.9999996121973294

At random state 108 the model performs very well
At random state 108
Training score is
0.9999996794437103

Predicted value is [3.17763609 2.67776067 1.73928606 1.21366097 2.63448366 0.99844099
2.08471475 2.84829148 3.10719224 1.61624205 1.59889836 1.73806349
3.10707765 2.02481945 2.24627083 3.60183239 1.73833057 2.47501119
2.2665096 1.63812705 2.89318327 2.51751968 2.51764461 2.32306087
1.7852661 2.0638799 2.53342569 1.87660184 2.41452187 2.61954492] and Actual value is [
3.17728, 2.67782, 1.7393299999999998, 1.21305, 2.6343, 0.99895, 2.08528, 2.84848, 3.10709
0000000004, 1.6158299999999999, 1.59927, 1.7379900000000001, 3.10712, 2.025, 2.246390000
0000003, 3.6021400000000003, 1.73797, 2.4748900000000003, 2.26646, 1.63794, 2.89319, 2.51
73799999999997, 2.51767, 2.32323, 1.78555, 2.06367, 2.5332, 1.8763400000000001, 2.4148400
00000003, 2.61955]

Mean absolute error:- 0.00021632567339366544
Mean squared error:- 7.322398580898209e-08
Root mean squared error:- 0.0002705993085892536
r2 Score:- 0.9999997963309235

At random state 109 the model performs very well
At random state 109
Training score is
0.9999997528369345

Predicted value is [1.94269037 1.86971131 0.99844521 2.70210016 1.4171255 1.85993863
2.02496756 2.80737726 2.32378778 2.11813638 2.24187104 1.87658153
2.59437048 1.88532107 2.6761641 2.50956713 2.02485668 2.51765696
2.83595109 1.78518393 1.34725763 2.2471225 1.62255238 2.21122783
1.64832068 1.46168818 1.84412137 2.23229331 2.13139492 1.95848308] and Actual value is [
1.9429599999999998, 1.8698400000000002, 0.99895, 2.70201, 1.41723, 1.8604, 2.025179999999
9998, 2.8079099999999997, 2.32407, 2.11773, 2.24173, 1.8763400000000001, 2.5945, 1.885009
9999999999, 2.67585, 2.51011, 2.025, 2.51767, 2.8360000000000003, 1.78555, 1.34759, 2.247
43, 1.62215, 2.21126, 1.6488, 1.46181, 1.84408, 2.2327, 2.1309, 1.95812]

Mean absolute error:- 0.0002742004201664409

Mean squared error:- 1.0161330532697953e-07

Root mean squared error:- 0.00031876841958854634

r2 Score:- 0.9999994836223017

At random state 110 the model performs very well

At random state 110

Training score is

0.9999997223967185

Predicted value is [2.50985028 2.44688071 2.11560661 2.75460659 2.47498513 2.63439231
1.5985949 3.05114749 2.48657114 1.69484369 2.67615431 0.98171219
2.76615223 2.5944092 1.633272 2.37155494 2.09026733 1.26499847
1.21352675 2.32373451 2.24632218 2.1313904 2.10992427 2.50962353
1.73792881 1.68432776 2.8359718 1.5703939 2.23230314 3.19110443] and Actual value is [
2.51009, 2.4464900000000003, 2.1156900000000003, 2.75414, 2.4748900000000003, 2.6343, 1.5
988799999999999, 3.05137, 2.48676, 1.6944, 2.67585, 0.98195, 2.76579, 2.5945, 1.633279999
999998, 2.3711900000000004, 2.0906599999999997, 1.26462, 1.21305, 2.32407, 2.24639000000
0003, 2.1309, 2.11032, 2.51011, 1.7379900000000001, 1.68435, 2.8360000000000003, 1.57059
, 2.2327, 3.1913099999999996]

Mean absolute error:- 0.00026033574749731263

Mean squared error:- 9.188014331190594e-08

Root mean squared error:- 0.00030311737547014016

r2 Score:- 0.9999996919091027

At random state 111 the model performs very well

At random state 111

Training score is

0.9999997210367686

Predicted value is [2.44223892 3.26052611 1.63318102 2.44694437 2.13146618 2.84827486
1.73839397 1.34733773 2.11354287 2.67616379 3.03490194 2.63444313
1.62260577 2.44843607 2.51755878 1.9917303 1.64833345 1.61617939
0.98159703 2.02501532 1.444197 2.27419336 1.75875078 1.87876858
1.88529215 2.49209449 1.42784011 1.92339923 3.0512887 1.88498058] and Actual value is [
2.44191, 3.26001, 1.6332799999999998, 2.4464900000000003, 2.1309, 2.84848, 1.73797, 1.347
59, 2.1139900000000003, 2.67585, 3.035, 2.6343, 1.62215, 2.44876, 2.5173799999999997, 1.9
917200000000002, 1.6488, 1.6158299999999999, 0.98195, 2.0251799999999998, 1.44395, 2.2739
4, 1.75873, 1.87877, 1.8850099999999999, 2.4920400000000003, 1.42766, 1.92313, 3.05137, 1
.8854099999999998]

Mean absolute error:- 0.0002656557072734933

Mean squared error:- 9.552155452699728e-08

Root mean squared error:- 0.0003090656152453671

r2 Score:- 0.9999996829763715

At random state 112 the model performs very well

At random state 112

Training score is

0.999999731510058

Predicted value is [2.45186076 1.96972105 1.7614444 3.08880584 2.2377831 2.8576637
1.79317675 1.73829451 3.05123499 2.30873253 1.44423827 2.08472043
2.43241645 2.44848763 1.63329098 2.48656719 1.86613934 1.99178177
1.84417304 2.43846817 1.57166083 1.96940749 2.00077571 2.18871361
2.27540565 1.95285498 2.09972912 1.38099788 0.67147127 2.02495045] and Actual value is [
2.4517599999999997, 1.9699400000000002, 1.76145, 3.08854, 2.2374099999999997, 2.85737, 1.
79293, 1.73797, 3.05137, 2.30919, 1.44395, 2.08528, 2.43209, 2.44876, 1.6332799999999998,
2.48676, 1.86565, 1.9917200000000002, 1.84408, 2.43872, 1.5714, 1.9696099999999999, 2.000
73, 2.18896, 2.27513, 1.95335, 2.10017, 1.38079, 0.67108, 2.0251799999999998]

Mean absolute error:- 0.00025879323414270685
Mean squared error:- 8.712682532200537e-08
Root mean squared error:- 0.00029517253483683976
r2 Score:- 0.9999996358529621

At random state 113 the model performs very well
At random state 113
Training score is
0.9999997485392661
Predicted value is [1.96967013 2.84824501 1.68427611 2.51767749 2.50958936 2.05109372
2.74276895 1.69480499 2.08476145 1.93112283 1.88956363 2.43855398
2.00078417 2.18860669 1.46178396 1.95593074 2.09978161 2.46554674
2.12505577 2.6777587 1.57034921 2.32129722 2.27545044 1.94271704
2.45182838 2.80741673 2.11351907 1.95840902 0.98173411 2.82362091] and Actual value is [
1.9699400000000002, 2.84848, 1.68435, 2.51767, 2.51011, 2.05125, 2.74255, 1.6944, 2.08528
, 1.9312900000000002, 1.8893099999999998, 2.43872, 2.00073, 2.18896, 1.46181, 1.956370000
0000002, 2.10017, 2.4657, 2.12466, 2.67782, 1.57059, 2.3214200000000003, 2.27513, 1.94295
99999999998, 2.451759999999997, 2.807909999999997, 2.1139900000000003, 1.95812, 0.98195
, 2.82334]

Mean absolute error:- 0.00025364549193578333
Mean squared error:- 8.664836291348992e-08
Root mean squared error:- 0.000294360939856989
r2 Score:- 0.9999995267848276

At random state 114 the model performs very well
At random state 114
Training score is
0.999999754714474
Predicted value is [1.92333654 2.23228287 2.08477541 2.02488408 1.68421899 2.05114385
2.45355497 2.79890984 2.26425384 2.53913034 2.86701497 2.20133859
1.94273018 1.94944105 1.63316318 2.37155014 2.63446736 1.69488042
1.73930866 1.97551557 1.38097637 2.06400072 1.85985375 2.7661974
1.87962588 2.5943582 1.62259785 2.44838369 1.5882142 2.2419839] and Actual value is [
1.92313, 2.2327, 2.08528, 2.025, 1.68435, 2.05125, 2.4537299999999997, 2.79832, 2.26425,
2.5394200000000002, 2.86712, 2.20173, 1.9429599999999998, 1.9493900000000002, 1.633279999
999998, 2.3711900000000004, 2.6343, 1.6944, 1.7393299999999998, 1.9757, 1.38079, 2.06367
, 1.8604, 2.76579, 1.8799599999999999, 2.5945, 1.62215, 2.44876, 1.58782, 2.24173]

Mean absolute error:- 0.0002688810991837561
Mean squared error:- 9.780427015976385e-08
Root mean squared error:- 0.0003127367425803432
r2 Score:- 0.9999993525229093

At random state 115 the model performs very well
At random state 115
Training score is
0.9999997435336486
Predicted value is [2.11555023 1.34729607 2.32133655 1.87969686 1.79314162 1.46506592
2.02495777 2.51752933 1.38094099 2.8482191 2.04407237 2.24627798
1.64832346 2.11354756 2.80733953 1.78519953 2.21125687 1.89857299
2.47497478 2.48655612 1.93109957 2.50953525 0.65453519 1.71925955
2.30865782 2.6761313 2.13141749 1.2136002 2.4421852 2.75451234] and Actual value is [
2.115690000000003, 1.34759, 2.321420000000003, 1.879959999999999, 1.79293, 1.46494, 2.
0251799999999998, 2.5173799999999997, 1.38079, 2.84848, 2.0438400000000003, 2.24639000000
0003, 1.6488, 2.113990000000003, 2.807909999999997, 1.78555, 2.21126, 1.89894, 2.47489
0000000003, 2.48676, 1.931290000000002, 2.51011, 0.654289999999999, 1.7195599999999998
, 2.30919, 2.67585, 2.1309, 1.21305, 2.44191, 2.75414]

Mean absolute error:- 0.00028613141521311635
Mean squared error:- 1.063559494067202e-07
Root mean squared error:- 0.0003261225987366104
r2 Score:- 0.9999995844080337

At random state 116 the model performs very well
At random state 116
Training score is
0.9999997269757431

Predicted value is [2.20150286 2.13136865 2.00076682 2.82365538 1.96977115 2.04400388
1.71926668 1.24115026 3.10725438 2.12376499 2.61956608 2.30873411
3.26046312 1.86430583 1.88526499 1.80036649 1.87660184 2.48660506
2.2418568 1.75868399 0.65451837 2.26651708 2.67777047 2.46563653
2.31983655 2.08474548 1.26498137 1.59860307 2.02496789 1.95074482] and Actual value is [
2.20173, 2.1309, 2.00073, 2.82334, 1.9699400000000002, 2.0438400000000003, 1.7195599999999999
9998, 1.24074, 3.1070900000000004, 2.12367, 2.61955, 2.30919, 3.26001, 1.86399, 1.8850099
999999999, 1.801009999999998, 1.8763400000000001, 2.48676, 2.24173, 1.75873, 0.654289999
9999999, 2.26646, 2.67782, 2.4657, 2.31945, 2.08528, 1.26462, 1.5988799999999999, 2.02517
9999999998, 1.95071]

Mean absolute error:- 0.00024258093271688116
Mean squared error:- 8.571196009481256e-08
Root mean squared error:- 0.00029276605010624535
r2 Score:- 0.9999996886222686

At random state 117 the model performs very well
At random state 117
Training score is
0.9999997236678672

Predicted value is [1.64830297 1.78521297 2.44683819 2.46548857 2.11354625 1.68154885
1.42784677 1.87878734 1.68430289 1.46173485 1.46506234 1.79314364
2.86702402 2.46509138 1.88494827 1.38093746 2.61950681 1.97539266
2.32302778 1.34729437 1.57164425 2.67776264 1.94270822 1.95071677
2.49197215 2.30870102 1.96936511 2.59438749 1.95295174 1.7587354] and Actual value is [
1.6488, 1.78555, 2.4464900000000003, 2.4657, 2.1139900000000003, 1.68135, 1.42766, 1.8787
7, 1.68435, 1.46181, 1.46494, 1.79293, 2.86712, 2.465309999999997, 1.885409999999998, 1
.38079, 2.61955, 1.9757, 2.32323, 1.34759, 1.5714, 2.67782, 1.942959999999998, 1.95071,
2.4920400000000003, 2.30919, 1.9696099999999999, 2.5945, 1.95335, 1.75873]

Mean absolute error:- 0.00021162900692413741
Mean squared error:- 6.615370756212519e-08
Root mean squared error:- 0.00025720363053838334
r2 Score:- 0.9999996352794221

At random state 118 the model performs very well
At random state 118
Training score is
0.9999997315531942

Predicted value is [2.09979085 2.20147815 0.98178082 0.65451249 1.87965633 2.27546045
2.12374855 1.95844625 2.00077493 1.86607639 1.85109181 1.88503446
1.7931379 1.24115082 2.76615434 1.44418987 2.48662436 2.89325649
1.80038634 1.96943978 2.06389162 2.45190758 1.88958109 1.9559913
2.31983759 2.02485078 1.9918104 1.88526194 1.95074974 2.32308888] and Actual value is [
2.10017, 2.20173, 0.98195, 0.6542899999999999, 1.8799599999999999, 2.27513, 2.12367, 1.95
812, 2.00073, 1.86565, 1.851, 1.885409999999998, 1.79293, 1.24074, 2.76579, 1.44395, 2.4
8676, 2.89319, 1.801009999999998, 1.969609999999999, 2.06367, 2.451759999999997, 1.889
3099999999998, 1.9563700000000002, 2.31945, 2.025, 1.9917200000000002, 1.8850099999999999
, 1.95071, 2.32323]

Mean absolute error:- 0.00024327396577726866
Mean squared error:- 7.763590137243375e-08
Root mean squared error:- 0.00027863219730037256
r2 Score:- 0.9999996158241049

At random state 119 the model performs very well
At random state 119
Training score is
0.9999997073966529

Predicted value is [0.98175354 2.45371403 2.37157461 2.7021162 2.26422214 2.51773821
2.27552984 1.6483669 1.46183257 1.73829776 2.47498342 1.86428653
1.34734374 2.09021793 3.60187773 2.82364088 2.21124558 2.10997736
1.78523822 1.86608476 2.46516459 1.57035234 1.38093086 2.5099058
3.19108254 1.44419818 2.43244295 1.79312512 1.95253107 1.95295115] and Actual value is [
0.98195, 2.453729999999997, 2.371190000000004, 2.70201, 2.26425, 2.51767, 2.27513, 1.64
88, 1.46181, 1.73797, 2.474890000000003, 1.86399, 1.34759, 2.090659999999997, 3.6021400
000000003, 2.82334, 2.21126, 2.11032, 1.78555, 1.86565, 2.465309999999997, 1.57059, 1.38
079, 2.51009, 3.191309999999996, 1.44395, 2.43209, 1.79293, 1.9521, 1.95335]

Mean absolute error:- 0.00024297913673927788
Mean squared error:- 7.756725789032319e-08
Root mean squared error:- 0.0002785089906813121
r2 Score:- 0.9999997539981877

At random state 120 the model performs very well
At random state 120
Training score is
0.9999997505418491

Predicted value is [1.86968066 2.44222363 1.62257211 2.44848298 1.76142462 2.53922443
2.50986709 2.24706557 1.93112697 1.46163597 2.74278797 1.84418892
1.97547071 1.59571934 2.43246637 2.85762128 2.41449764 2.32132708
1.9693875 2.37155429 1.94270522 2.24706223 2.24191445 2.61952928
1.95849634 2.30869816 1.88957784 1.96971457 2.31977124 2.23772085] and Actual value is [
1.8698400000000002, 2.44191, 1.62215, 2.44876, 1.76145, 2.5394200000000002, 2.51009, 2.24
729, 1.9312900000000002, 1.46181, 2.74255, 1.84408, 1.9757, 1.59541, 2.43209, 2.85737, 2.
4148400000000003, 2.3214200000000003, 1.9696099999999999, 2.3711900000000004, 1.942959999
9999998, 2.24743, 2.24173, 2.61955, 1.95812, 2.30919, 1.8893099999999998, 1.9699400000000
002, 2.31945, 2.2374099999999997]

Mean absolute error:- 0.0002511315112114184
Mean squared error:- 7.482079599635303e-08
Root mean squared error:- 0.0002735339028280645
r2 Score:- 0.9999993599173125

At random state 121 the model performs very well
At random state 121
Training score is
0.9999997106062992

Predicted value is [3.10714965 1.63324932 1.26496196 2.46560033 2.31979059 1.89859685
2.04403911 1.8796614 1.88499829 2.75456676 1.95295682 0.99838925
2.44681446 1.94268423 2.6777831 2.18865865 2.232368 2.11557544
0.67137823 2.61954883 2.24186321 2.43243923 3.10731912 2.48653774
1.73928154 1.7191909 2.82365155 1.88525945 1.44415892 1.84416111] and Actual value is [
3.10712, 1.6332799999999998, 1.26462, 2.4657, 2.31945, 1.89894, 2.0438400000000003, 1.879
9599999999999, 1.8854099999999998, 2.75414, 1.95335, 0.99895, 2.4464900000000003, 1.94295
9999999998, 2.67782, 2.18896, 2.2327, 2.1156900000000003, 0.67108, 2.61955, 2.24173, 2.4
3209, 3.1070900000000004, 2.48676, 1.739329999999998, 1.719559999999998, 2.82334, 1.885
0099999999999, 1.44395, 1.84408]

Mean absolute error:- 0.00024542273425382324
Mean squared error:- 7.958043048257143e-08
Root mean squared error:- 0.00028210003630374
r2 Score:- 0.9999997449627714

At random state 122 the model performs very well
At random state 122
Training score is
0.9999997188033969

Predicted value is [1.88528093 1.69495512 1.76143594 1.83338917 2.23225419 3.17751235
2.27556776 2.43240921 2.05104971 2.09024225 1.41717194 1.63330391
3.19101305 1.85107386 2.41447332 3.05111422 2.86696912 3.10741745
2.08479907 2.10993479 2.3236636 2.53913413 2.11349264 2.4385919
2.48659597 2.20141736 2.32312406 2.83589308 1.5715799 0.98174904] and Actual value is [
1.885009999999999, 1.6944, 1.76145, 1.83302, 2.2327, 3.17728, 2.27513, 2.43209, 2.05125,
2.0906599999999997, 1.41723, 1.633279999999998, 3.191309999999996, 1.851, 2.41484000000
00003, 3.05137, 2.86712, 3.107090000000004, 2.08528, 2.11032, 2.32407, 2.539420000000000
2, 2.1139900000000003, 2.43872, 2.48676, 2.20173, 2.32323, 2.8360000000000003, 1.5714, 0.
98195]

Mean absolute error:- 0.00026900937282963534
Mean squared error:- 9.389239876441742e-08
Root mean squared error:- 0.00030641866582246165
r2 Score:- 0.999999636194572

At random state 123 the model performs very well
At random state 123
Training score is

0.9999997182793611
Predicted value is [2.08477243 2.27540741 1.94936442 2.45363891 1.87663768 2.80734993
2.10992812 2.24630818 2.26418751 3.05117062 1.38091427 2.43856855
2.75454829 1.95591695 1.95838791 2.04399352 2.32308826 3.60181418
1.88957838 2.53918147 2.83595773 1.79309397 2.84825275 0.99851977
1.73833391 1.96968831 2.85761259 1.78520262 2.44839707 2.45184236] and Actual value is [
2.08528, 2.27513, 1.9493900000000002, 2.4537299999999997, 1.8763400000000001, 2.807909999
9999997, 2.11032, 2.2463900000000003, 2.26425, 3.05137, 1.38079, 2.43872, 2.75414, 1.9563
700000000002, 1.95812, 2.0438400000000003, 2.32323, 3.6021400000000003, 1.889309999999999
8, 2.5394200000000002, 2.8360000000000003, 1.79293, 2.84848, 0.99895, 1.73797, 1.96994000
00000002, 2.85737, 1.78555, 2.44876, 2.4517599999999997]

Mean absolute error:- 0.0002514169298824716

Mean squared error:- 8.299382346236572e-08

Root mean squared error:- 0.00028808648608077004

r2 Score:- 0.9999996910280562

At random state 124 the model performs very well

At random state 124

Training score is

0.999997466183954

Predicted value is [1.88523414 1.96941382 2.04402673 2.12375349 2.09027665 2.13137199
1.68155633 1.75873092 1.63326125 2.44219149 1.95073496 2.11354153
3.10731986 1.73796499 2.44846482 2.26644726 2.20798199 1.46178554
2.20146962 1.92339805 2.50991345 2.4651411 1.99179395 2.70213813
1.63810879 2.79877621 1.87876388 2.24710103 2.53919356 2.12506425] and Actual value is [
1.8850099999999999, 1.9696099999999999, 2.0438400000000003, 2.12367, 2.0906599999999997,
2.1309, 1.68135, 1.75873, 1.633279999999998, 2.44191, 1.95071, 2.1139900000000003, 3.107
0900000000004, 1.7379900000000001, 2.44876, 2.26646, 2.20857, 1.46181, 2.20173, 1.92313,
2.51009, 2.4653099999999997, 1.9917200000000002, 2.70201, 1.63794, 2.79832, 1.87877, 2.24
743, 2.5394200000000002, 2.12466]

Mean absolute error:- 0.00021229323423433606

Mean squared error:- 6.973698672540619e-08

Root mean squared error:- 0.00026407761496462776

r2 Score:- 0.9999994866033544

At random state 125 the model performs very well

At random state 125

Training score is

0.999996832103948

Predicted value is [2.48651269 2.67778065 2.24711798 2.86695202 2.45366477 2.465131
2.27539775 1.24122448 1.7852419 2.50982742 2.53924292 3.60181468
2.43851543 0.99849241 2.44682748 1.26506748 1.73833244 1.57039355
2.27410935 1.5957883 3.2604202 2.09029057 3.10707781 1.63327877
1.61625819 2.50956148 3.03485058 2.89309321 1.21365204 2.74278238] and Actual value is [
2.48676, 2.67782, 2.24729, 2.86712, 2.45372999999997, 2.46530999999997, 2.27513, 1.24
074, 1.78555, 2.51009, 2.539420000000002, 3.602140000000003, 2.43872, 0.99895, 2.446490
000000003, 1.26462, 1.73797, 1.57059, 2.27394, 1.59541, 3.26001, 2.09065999999997, 3.1
0712, 1.633279999999998, 1.615829999999999, 2.51011, 3.035, 2.89319, 1.21305, 2.74255]

Mean absolute error:- 0.00027100844564795776

Mean squared error:- 9.700985694317279e-08

Root mean squared error:- 0.0003114640540145408

r2 Score:- 0.9999997701826384

At random state 126 the model performs very well

At random state 126

Training score is

0.999997310085947

Predicted value is [2.26417055 2.3230462 2.20152837 3.19106833 1.57034259 2.24712936
2.79071898 2.12504179 1.8510736 1.96967836 1.64837109 1.46509187
2.41448772 1.84412987 2.61949582 2.74280132 1.46181556 2.51745111
1.86966679 1.80035167 1.21357398 2.51771281 1.26499176 2.67775628
1.95288292 1.73799762 2.05109913 2.02479928 2.10998204 1.95249045] and Actual value is [
2.26425, 2.32323, 2.20173, 3.19130999999996, 1.57059, 2.24729, 2.79094, 2.12466, 1.851,
1.969940000000002, 1.6488, 1.46494, 2.414840000000003, 1.84408, 2.61955, 2.74255, 1.461
81, 2.517379999999997, 1.869840000000002, 1.801009999999998, 1.21305, 2.51767, 1.26462
, 2.67782, 1.95335, 1.737990000000001, 2.05125, 2.025, 2.11032, 1.9521]

Mean absolute error:- 0.0002268764045779248
Mean squared error:- 7.764877128347352e-08
Root mean squared error:- 0.00027865529114566177
r2 Score:- 0.9999996404859413

At random state 127 the model performs very well
At random state 127
Training score is
0.999997216317146
Predicted value is [2.47499461 2.89329597 3.0889259 3.10738508 1.83339556 2.70219617
2.48665602 2.67622216 2.32130965 2.53920472 2.00080952 2.3237439
2.76622294 2.75464316 2.10992644 1.44413008 2.05105973 1.68156976
1.63810677 2.24635055 2.82365574 2.23232625 1.9427434 1.61622727
2.30877733 2.27414107 2.51771038 1.75332455 1.26500147 1.85107184] and Actual value is [
2.4748900000000003, 2.89319, 3.08854, 3.1070900000000004, 1.83302, 2.70201, 2.48676, 2.67
585, 2.3214200000000003, 2.5394200000000002, 2.00073, 2.32407, 2.76579, 2.75414, 2.11032,
1.44395, 2.05125, 1.68135, 1.63794, 2.2463900000000003, 2.82334, 2.2327, 1.942959999999999
98, 1.6158299999999999, 2.30919, 2.27394, 2.51767, 1.7536, 1.26462, 1.851]
Mean absolute error:- 0.0002490966866678009
Mean squared error:- 7.930628218293381e-08
Root mean squared error:- 0.0002816137109285232
r2 Score:- 0.9999996540435563

At random state 128 the model performs very well
At random state 128
Training score is
0.999997231845409
Predicted value is [3.10707805 2.2322983 2.30870091 2.24182367 1.62250963 2.46559624
2.67615402 2.8359476 2.45361681 0.89933705 2.84825907 3.05126482
1.78520596 3.17760296 1.73798577 1.95591649 2.24709502 2.00075113
1.79310771 2.1155635 1.87963531 2.26425287 2.59436341 2.02490802
1.89851876 2.23771914 1.59855405 2.49206584 1.95291795 1.94268366] and Actual value is [
3.10712, 2.2327, 2.30919, 2.24173, 1.62215, 2.4657, 2.67585, 2.8360000000000003, 2.453729
9999999997, 0.89991, 2.84848, 3.05137, 1.78555, 3.17728, 1.7379900000000001, 1.9563700000
000002, 2.24729, 2.00073, 1.79293, 2.1156900000000003, 1.8799599999999999, 2.26425, 2.594
5, 2.0251799999999998, 1.89894, 2.2374099999999997, 1.5988799999999999, 2.4920400000000000
3, 1.95335, 1.9429599999999998]
Mean absolute error:- 0.00023434068212731715
Mean squared error:- 8.009174993168783e-08
Root mean squared error:- 0.000283004858494846
r2 Score:- 0.9999996726108279

At random state 129 the model performs very well
At random state 129
Training score is
0.99999714502598
Predicted value is [3.19110239 1.86609232 1.34737786 1.68431779 2.45188732 3.08886879
2.20146827 2.44688731 2.50963829 1.68153707 2.0998278 2.26647486
2.76615667 2.79065522 1.57167234 1.5985847 2.48660983 2.85761726
2.86706507 1.6948213 1.87662525 0.98170003 2.11815686 1.26497788
2.51767009 1.88527052 2.44845069 1.8511049 2.23768265 2.53919514] and Actual value is [
3.1913099999999996, 1.86565, 1.34759, 1.68435, 2.4517599999999997, 3.08854, 2.20173, 2.44
64900000000003, 2.51011, 1.68135, 2.10017, 2.26646, 2.76579, 2.79094, 1.5714, 1.598879999
999999, 2.48676, 2.85737, 2.86712, 1.6944, 1.8763400000000001, 0.98195, 2.11773, 1.26462
, 2.51767, 1.8850099999999999, 2.44876, 1.851, 2.237409999999997, 2.5394200000000002]
Mean absolute error:- 0.0002536770423237337
Mean squared error:- 8.016651244312507e-08
Root mean squared error:- 0.0002831369146598957
r2 Score:- 0.9999997318723302

At random state 130 the model performs very well
At random state 130
Training score is
0.999997436138429

Predicted value is [2.75456466 1.38089806 2.89321958 2.09976472 2.50981429 2.41452594
1.61620666 1.68429364 2.09020535 1.89856897 2.06384016 0.99842641
1.64840618 2.20786691 1.99179059 2.32375783 3.10732397 2.02498452
2.8074142 2.45368567 2.12507287 2.8359561 1.76139731 2.45189149
1.94270296 1.86431328 3.05112457 2.32131292 2.37157539 2.67615887] and Actual value is [
2.75414, 1.38079, 2.89319, 2.10017, 2.51009, 2.4148400000000003, 1.6158299999999999, 1.68
435, 2.0906599999999997, 1.89894, 2.06367, 0.99895, 1.6488, 2.20857, 1.9917200000000002,
2.32407, 3.1070900000000004, 2.025179999999998, 2.807909999999997, 2.453729999999997,
2.12466, 2.836000000000003, 1.76145, 2.451759999999997, 1.942959999999998, 1.86399, 3.
05137, 2.321420000000003, 2.371190000000004, 2.67585]

Mean absolute error:- 0.00027423642580552964
Mean squared error:- 1.0318546234484267e-07
Root mean squared error:- 0.0003212249404153461
r2 Score:- 0.9999995740428277

At random state 131 the model performs very well
At random state 131
Training score is
0.999997589090689

Predicted value is [2.30870596 2.31968908 1.75878917 2.04414322 1.59582065 1.89860449
2.12374938 1.46515491 2.26647573 1.95860318 1.97546608 2.22000667
1.44427627 0.99849124 2.13144988 1.21365984 2.1886775 1.8335869
1.73838929 1.94276788 2.32303066 2.44229087 2.32389194 3.05139773
2.11821537 2.32135976 2.27408728 1.84421839 2.79891054 1.42794867] and Actual value is [
2.30919, 2.31945, 1.75873, 2.0438400000000003, 1.59541, 1.89894, 2.12367, 1.46494, 2.2664
6, 1.95812, 1.9757, 2.21978, 1.44395, 0.99895, 2.1309, 1.21305, 2.18896, 1.83302, 1.73797
, 1.942959999999998, 2.32323, 2.44191, 2.32407, 3.05137, 2.11773, 2.321420000000003, 2.
27394, 1.84408, 2.79832, 1.42766]

Mean absolute error:- 0.00029958412498412026
Mean squared error:- 1.1982934602285715e-07
Root mean squared error:- 0.0003461637560791961
r2 Score:- 0.9999993609877155

At random state 132 the model performs very well
At random state 132
Training score is
0.999997284829504

Predicted value is [1.96977484 1.62256242 1.99182627 1.73831974 1.63814874 2.86708416
1.9525289 2.09980733 2.53921259 1.87880751 3.10733755 2.43245664
1.94937096 2.02485453 1.86971336 1.42786381 1.95074359 1.7852692
2.45191148 2.26650188 1.86606477 1.73927745 2.37160636 2.02497627
1.95847676 1.44419936 2.5177199 0.99846236 2.70216168 1.75334661] and Actual value is [
1.969940000000002, 1.62215, 1.991720000000002, 1.73797, 1.63794, 2.86712, 1.9521, 2.100
17, 2.539420000000002, 1.87877, 3.107090000000004, 2.43209, 1.9493900000000002, 2.025,
1.869840000000002, 1.42766, 1.95071, 1.78555, 2.451759999999997, 2.26646, 1.86565, 1.73
9329999999998, 2.371190000000004, 2.025179999999998, 1.95812, 1.44395, 2.51767, 0.9989
5, 2.70201, 1.7536]

Mean absolute error:- 0.00021892314078250836
Mean squared error:- 6.739467398473223e-08
Root mean squared error:- 0.00025960484199015287
r2 Score:- 0.99999965299583

At random state 133 the model performs very well
At random state 133
Training score is
0.9999996903816216

Predicted value is [2.43858564 2.0510443 2.51765605 1.73831831 3.60187916 2.02486053
2.41453131 2.26647541 2.43247154 1.87659024 2.45188618 0.65444106
1.89855369 2.32379088 2.46517298 3.26049264 2.7906932 2.51752415
2.6777909 1.95595703 2.37158056 2.24711417 2.44687444 1.41712668
1.97548238 1.96973197 1.46174508 3.17762076 0.9984431 2.22002755] and Actual value is [
2.43872, 2.05125, 2.51767, 1.73797, 3.602140000000003, 2.025, 2.414840000000003, 2.2664
6, 2.43209, 1.876340000000001, 2.451759999999997, 0.6542899999999999, 1.89894, 2.32407,
2.465309999999997, 3.26001, 2.79094, 2.517379999999997, 2.67782, 1.9563700000000002, 2.
371190000000004, 2.24743, 2.446490000000003, 1.41723, 1.9757, 1.969940000000002, 1.461
81, 3.17728, 0.99895, 2.21978]

Mean absolute error:- 0.0002411266309023552
Mean squared error:- 7.612404676105163e-08
Root mean squared error:- 0.00027590586576050106
r2 Score:- 0.9999997890694036

At random state 134 the model performs very well
At random state 134
Training score is
0.99999735792802
Predicted value is [2.76614438 1.73833144 1.80039872 1.24115038 2.02495698 1.75335107
2.49206055 2.53920991 2.02484627 1.34732031 1.8852944 2.509913
1.57162175 2.32133698 1.95847339 2.53339635 2.48660887 2.47499083
1.86970052 2.1155594 1.83346872 1.95298738 2.00076318 1.93111564
2.45189666 1.38097501 2.74279749 2.06391494 2.45363099 1.73928449] and Actual value is [
2.76579, 1.73797, 1.8010099999999998, 1.24074, 2.0251799999999998, 1.7536, 2.492040000000
0003, 2.5394200000000002, 2.025, 1.34759, 1.885009999999999, 2.51009, 1.5714, 2.32142000
00000003, 1.95812, 2.5332, 2.48676, 2.4748900000000003, 1.8698400000000002, 2.115690000000
0003, 1.83302, 1.95335, 2.00073, 1.9312900000000002, 2.4517599999999997, 1.38079, 2.7425
5, 2.06367, 2.4537299999999997, 1.7393299999999998]
Mean absolute error:- 0.00022263123867909406
Mean squared error:- 6.675115656415745e-08
Root mean squared error:- 0.00025836245192395403
r2 Score:- 0.9999995953380088

At random state 135 the model performs very well
At random state 135
Training score is
0.99999746394968
Predicted value is [1.95600489 2.44225263 1.68430672 1.73926668 1.96969599 1.95849852
2.13140514 1.88951946 2.24709218 2.11816047 2.63446435 1.87968745
1.42788129 2.51773392 1.61617519 1.84415468 2.4518514 1.76136895
0.99842991 1.59897463 2.00080079 2.09024469 1.64833594 2.45369228
2.49203558 2.12506421 1.93109231 1.87654874 1.92341153 3.17764402] and Actual value is [
1.9563700000000002, 2.44191, 1.68435, 1.7393299999999998, 1.9699400000000002, 1.95812, 2.
1309, 1.8893099999999998, 2.24743, 2.11773, 2.6343, 1.879959999999999, 1.42766, 2.51767,
1.615829999999999, 1.84408, 2.451759999999997, 1.76145, 0.99895, 1.59927, 2.00073, 2.09
06599999999997, 1.6488, 2.4537299999999997, 2.4920400000000003, 2.12466, 1.931290000000000
02, 1.8763400000000001, 1.92313, 3.17728]
Mean absolute error:- 0.0002499377291505215
Mean squared error:- 8.539023065413645e-08
Root mean squared error:- 0.0002922160684393253
r2 Score:- 0.9999994952654879

At random state 136 the model performs very well
At random state 136
Training score is
0.999997311942995
Predicted value is [2.51779537 2.4468422 3.10719689 0.65437312 1.63809832 2.24712438
3.10747844 2.43244969 1.86963368 2.7546355 1.95259552 2.44219071
2.53342388 1.34727164 2.27558403 2.05106998 1.75871583 1.80041201
1.87963217 1.78521937 2.23762167 2.12511502 2.10999206 1.57036084
1.95598333 1.85110789 1.46171207 2.47498533 1.8600103 0.99841022] and Actual value is [
2.51767, 2.4464900000000003, 3.10712, 0.6542899999999999, 1.63794, 2.24743, 3.10709000000
00004, 2.43209, 1.8698400000000002, 2.75414, 1.9521, 2.44191, 2.5332, 1.34759, 2.27513, 2
.05125, 1.75873, 1.8010099999999998, 1.879959999999999, 1.78555, 2.2374099999999997, 2.1
2466, 2.11032, 1.57059, 1.9563700000000002, 1.851, 1.46181, 2.4748900000000003, 1.8604, 0
.99895]
Mean absolute error:- 0.0002871897308939627
Mean squared error:- 1.054436340058636e-07
Root mean squared error:- 0.0003247209007757067
r2 Score:- 0.9999996328505814

At random state 137 the model performs very well
At random state 137

```
Training score is  
0.9999997286162378  
Predicted value is [1.71926673 2.48657288 1.38095573 2.50987002 2.24632268 3.08887985  
1.42784803 2.11355127 2.53919593 2.49199945 2.24181986 1.57036007  
2.45364841 1.86609103 1.75872207 2.86705043 2.30872331 2.76615476  
2.10998848 1.92337079 1.8441362 1.44417918 1.89857105 2.75455637  
1.87875772 1.96940076 2.70216658 2.09025266 1.73793584 1.79310345] and Actual value is [  
1.7195999999999998, 2.48676, 1.38079, 2.51009, 2.2463900000000003, 3.08854, 1.42766, 2.11  
39900000000003, 2.5394200000000002, 2.4920400000000003, 2.24173, 1.57059, 2.4537299999999  
997, 1.86565, 1.75873, 2.86712, 2.30919, 2.76579, 2.11032, 1.92313, 1.84408, 1.44395, 1.8  
9894, 2.75414, 1.87877, 1.9696099999999999, 2.70201, 2.0906599999999997, 1.737990000000000  
01, 1.79293]
```

Mean absolute error:- 0.00021906924647575968

Mean squared error:- 6.71637645178649e-08

Root mean squared error:- 0.0002591597278086719

r2 Score:- 0.9999996678846367

At random state 138 the model performs very well

At random state 138

Training score is

0.9999997327305664

Predicted value is [1.88498771 2.26418038 1.88522729 2.45369195 2.6344782 1.68158942
 2.79882342 2.50956714 2.75457516 2.02486221 1.75875827 2.47498042
 1.96964906 1.95847935 1.71928604 2.00080792 2.53337598 1.46508648
 2.46512704 2.09030518 1.2649973 1.46177661 1.93115072 1.86609096
 1.75336194 2.83599114 2.05114961 3.05128499 1.62257001 2.82366192] and Actual value is [
 1.8854099999999998, 2.26425, 1.8850099999999999, 2.4537299999999997, 2.6343, 1.68135, 2.7
 9832, 2.51011, 2.75414, 2.025, 1.75873, 2.4748900000000003, 1.9699400000000002, 1.95812,
 1.7195599999999998, 2.00073, 2.5332, 1.46494, 2.4653099999999997, 2.0906599999999997, 1.2
 6462, 1.46181, 1.9312900000000002, 1.86565, 1.7536, 2.8360000000000003, 2.05125, 3.05137,
 1.62215, 2.82334]

Mean absolute error:- 0.00023101251605367096

Mean squared error:- 7.681573686148194e-08

Root mean squared error:- 0.0002771565205104905

r2 Score:- 0.999999642401372

At random state 139 the model performs very well

At random state 139

Training score is

0.9999997355760216

Predicted value is [1.88523089 1.38093251 2.50965496 2.22001297 2.32309013 1.75866729
 1.87879501 1.59853572 1.89853865 1.79310069 2.09021266 1.86605299
 2.51752756 2.37159771 2.89328572 2.31985368 1.59565861 1.96977603
 1.41713063 1.86432337 3.08891215 2.82366655 2.09976084 2.53921198
 2.75454661 1.86966407 2.46518455 1.75333147 0.9983717 0.89931678] and Actual value is [
 1.8850099999999999, 1.38079, 2.51011, 2.21978, 2.32323, 1.75873, 1.87877, 1.5988799999999999,
 1.89894, 1.79293, 2.0906599999999997, 1.86565, 2.5173799999999997, 2.37119000000000004,
 2.89319, 2.31945, 1.59541, 1.9699400000000002, 1.41723, 1.86399, 3.08854, 2.82334, 2.10017,
 2.5394200000000002, 2.75414, 1.8698400000000002, 2.4653099999999997, 1.7536, 0.99895,
 0.89991]

Mean absolute error:- 0.0002803191202640239

Mean squared error:- 1.007312438619734e-07

Root mean squared error:- 0.00031738185811727395

r2 Score:- 0.9999996278530108

At random state 140 the model performs very well

At random state 140

Training score is

0.9999997281143094

Predicted value is [2.27405427 2.53918367 2.26422368 2.45363825 3.03484663 2.63444758
 2.32376683 2.2323055 1.95249035 1.41715536 1.88958445 2.02496015
 2.47498484 1.21354834 0.99844659 1.85105954 1.46175022 1.9559448
 1.88500479 2.75454685 2.59438432 2.53339434 2.20144351 1.898561
 1.71925241 2.26646628 2.44215569 2.89323919 1.94935587 1.9694166] and Actual value is [
 2.27394, 2.5394200000000002, 2.26425, 2.4537299999999997, 3.035, 2.6343, 2.32407, 2.2327,
 1.9521, 1.41723, 1.889309999999998, 2.025179999999998, 2.4748900000000003, 1.21305, 0.9

9895, 1.851, 1.46181, 1.9563700000000002, 1.8854099999999998, 2.75414, 2.5945, 2.5332, 2.20173, 1.89894, 1.7195599999999998, 2.26646, 2.44191, 2.89319, 1.9493900000000002, 1.969609999999999]

Mean absolute error:- 0.0002230523910731123

Mean squared error:- 7.179144699914128e-08

Root mean squared error:- 0.00026793925990631026

r2 Score:- 0.9999996758765668

At random state 141 the model performs very well

At random state 141

Training score is

0.9999997307838627

Predicted value is [1.46509029 2.27410037 2.11817506 0.89936129 1.71926466 2.70209198

1.34731017 1.41717476 1.64832383 1.9918321 2.43857114 2.21999649

1.59576176 2.79874879 2.79063166 2.84824021 2.00080324 2.44223533

1.84411508 2.80744854 2.13138852 1.95251812 2.08478671 2.05108532

2.24709427 2.46558746 3.19109405 1.95297878 1.59852152 3.08882955] and Actual value is [

1.46494, 2.27394, 2.11773, 0.89991, 1.7195599999999998, 2.70201, 1.34759, 1.41723, 1.6488

, 1.9917200000000002, 2.43872, 2.21978, 1.59541, 2.79832, 2.79094, 2.84848, 2.00073, 2.44

191, 1.84408, 2.8079099999999997, 2.1309, 1.9521, 2.08528, 2.05125, 2.24729, 2.4657, 3.19

13099999999996, 1.95335, 1.5988799999999999, 3.08854]

Mean absolute error:- 0.0002767442600048168

Mean squared error:- 9.827844001751321e-08

Root mean squared error:- 0.00031349392341401645

r2 Score:- 0.9999996653382348

At random state 142 the model performs very well

At random state 142

Training score is

0.999999754789421

Predicted value is [2.4651864 2.4468004 1.86431092 2.05106533 2.82364893 2.08473002

2.02493503 1.95288697 2.80742443 2.43242172 3.03483132 1.42793056

2.13138056 2.5175348 1.73925188 1.79317588 0.67144404 1.94274955

2.51767337 2.00077641 1.99180593 2.7660892 2.24627713 1.94932311

2.09022772 1.80032129 2.44221474 1.83333567 2.37160407 2.23238768] and Actual value is [

2.4653099999999997, 2.4464900000000003, 1.86399, 2.05125, 2.82334, 2.08528, 2.02517999999

9998, 1.95335, 2.8079099999999997, 2.43209, 3.035, 1.42766, 2.1309, 2.5173799999999997,

1.7393299999999998, 1.79293, 0.67108, 1.9429599999999998, 2.51767, 2.00073, 1.99172000000

00002, 2.76579, 2.2463900000000003, 1.9493900000000002, 2.0906599999999997, 1.80100999999

9998, 2.44191, 1.83302, 2.371190000000004, 2.2327]

Mean absolute error:- 0.0002793113727532437

Mean squared error:- 1.0352583390913486e-07

Root mean squared error:- 0.00032175430674527864

r2 Score:- 0.9999995028868859

At random state 143 the model performs very well

At random state 143

Training score is

0.9999997403806573

Predicted value is [2.24710053 1.8788093 2.24710124 2.44220003 2.70214907 1.57162091

2.20791261 1.94932459 1.69475669 2.23772553 2.21121654 2.86708538

2.26425812 1.80032873 1.46508022 2.27408994 2.79059948 2.05100447

1.68148109 2.84824803 0.89937759 2.80740303 2.50961748 2.83593854

2.49204328 2.31982976 1.57030873 1.75334413 2.51767605 2.51750575] and Actual value is [

2.24729, 1.87877, 2.24743, 2.44191, 2.70201, 1.5714, 2.20857, 1.9493900000000002, 1.6944,

2.2374099999999997, 2.21126, 2.86712, 2.26425, 1.801009999999998, 1.46494, 2.27394, 2.79

094, 2.05125, 1.68135, 2.84848, 0.89991, 2.807909999999997, 2.51011, 2.836000000000003,

2.4920400000000003, 2.31945, 1.57059, 1.7536, 2.51767, 2.517379999999997]

Mean absolute error:- 0.00024182246031545135

Mean squared error:- 9.363923577713754e-08

Root mean squared error:- 0.00030600528717186824

r2 Score:- 0.9999995869813081

At random state 144 the model performs very well

At random state 144
Training score is
0.9999997104375865
Predicted value is [2.27405663 1.73929526 2.26643452 1.44416679 1.83351879 1.97542236
2.09030609 1.57162645 1.41714493 2.74281209 2.2323518 1.21357221
2.05116524 1.96965403 2.24191741 2.8482739 0.98175882 2.188638
2.75457962 1.84417707 2.82365869 2.41448091 2.00076433 2.45367453
2.63447507 1.719215 1.87878515 1.63806356 0.99841961 3.10734142] and Actual value is [
2.27394, 1.7393299999999998, 2.26646, 1.44395, 1.83302, 1.9757, 2.0906599999999997, 1.571
4, 1.41723, 2.74255, 2.2327, 1.21305, 2.05125, 1.9699400000000002, 2.24173, 2.84848, 0.98
195, 2.18896, 2.75414, 1.84408, 2.82334, 2.4148400000000003, 2.00073, 2.4537299999999997,
2.6343, 1.7195599999999998, 1.87877, 1.63794, 0.99895, 3.1070900000000004]

Mean absolute error:- 0.00023300879439344853
Mean squared error:- 7.628920363385456e-08
Root mean squared error:- 0.00027620500291242834
r2 Score:- 0.9999997340204471

At random state 145 the model performs very well

At random state 145
Training score is
0.9999997142485524

Predicted value is [2.43244549 1.7852091 1.7533001 2.00077862 2.63442907 3.03484648
1.57031623 1.7379328 2.41450837 1.86605234 1.8642602 1.8895419
0.98166274 0.89935544 1.87872973 1.6380894 2.84826784 2.49202743
2.45364615 1.64836439 2.67616273 2.26645814 3.1073168 2.0997821
1.63321868 2.50991179 2.32374199 1.9529792 1.76139302 2.44844166] and Actual value is [
2.43209, 1.78555, 1.7536, 2.00073, 2.6343, 3.035, 1.57059, 1.7379900000000001, 2.41484000
00000003, 1.86565, 1.86399, 1.889309999999998, 0.98195, 0.89991, 1.87877, 1.63794, 2.848
48, 2.4920400000000003, 2.4537299999999997, 1.6488, 2.67585, 2.26646, 3.1070900000000004,
2.10017, 1.6332799999999998, 2.51009, 2.32407, 1.95335, 1.76145, 2.44876]

Mean absolute error:- 0.0002304388252159284
Mean squared error:- 7.309412989204347e-08
Root mean squared error:- 0.000270359260784689
r2 Score:- 0.9999997332921198

At random state 146 the model performs very well

At random state 146
Training score is
0.9999997098116394

Predicted value is [1.89857577 2.85764595 1.96971622 2.20151326 1.84416604 3.08880414
2.44219898 2.13141829 1.95293692 0.65452698 3.03485634 2.12501365
1.95597038 1.44422482 1.7392945 1.76143051 1.93112 2.115604
2.02485033 2.74279058 1.2136465 1.71930894 1.63322712 1.42791153
2.80735498 1.58832774 2.46557102 2.89316353 1.46180012 1.63811256] and Actual value is [
1.89894, 2.85737, 1.9699400000000002, 2.20173, 1.84408, 3.08854, 2.44191, 2.1309, 1.95335
, 0.6542899999999999, 3.035, 2.12466, 1.9563700000000002, 1.44395, 1.7393299999999998, 1.
76145, 1.9312900000000002, 2.1156900000000003, 2.025, 2.74255, 1.21305, 1.719559999999999
8, 1.6332799999999998, 1.42766, 2.8079099999999997, 1.58782, 2.4657, 2.89319, 1.46181, 1.
63794]

Mean absolute error:- 0.00024379370233246951
Mean squared error:- 8.530233729989249e-08
Root mean squared error:- 0.0002920656386839994
r2 Score:- 0.9999997309928156

At random state 147 the model performs very well

At random state 147
Training score is
0.9999997107235261

Predicted value is [1.94929478 1.41721464 2.27558091 2.09977529 0.67144013 1.84414639
3.05111928 1.59590928 1.9918637 2.44213353 2.12515151 1.85111704
2.51782081 0.65454123 1.86609247 1.57159423 1.96947005 2.04404075
2.43242868 2.20784732 2.74279857 2.02493617 2.44855273 2.48646336
2.02481463 3.10709077 2.59442022 1.3472983 1.87663017 1.64835093] and Actual value is [
1.9493900000000002, 1.41723, 2.27513, 2.10017, 0.67108, 1.84408, 3.05137, 1.59541, 1.9917
200000000002, 2.44191, 2.12466, 1.851, 2.51767, 0.6542899999999999, 1.86565, 1.5714, 1.96
96099999999999, 2.0438400000000003, 2.43209, 2.20857, 2.74255, 2.0251799999999998, 2.4487

6, 2.48676, 2.025, 3.10712, 2.5945, 1.34759, 1.8763400000000001, 1.6488]

Mean absolute error:- 0.0002623635281918261

Mean squared error:- 9.404990754155935e-08

Root mean squared error:- 0.00030667557376087086

r2 Score:- 0.9999996980018336

At random state 148 the model performs very well

At random state 148

Training score is

0.9999997140190906

Predicted value is [1.41722444 2.75453614 2.53918711 1.79313147 2.41451826 2.67615612

2.24180953 2.84827334 1.95078317 2.26421725 0.98182099 1.69484291

1.9529386 1.94937007 1.89857271 1.44418363 2.63445333 2.11560747

2.44215533 1.68159534 2.49200414 2.20791347 1.88523401 2.53342422

1.46508307 2.27411063 2.59439503 1.61624699 3.6018264 1.87663898] and Actual value is [

1.41723, 2.75414, 2.5394200000000002, 1.79293, 2.4148400000000003, 2.67585, 2.24173, 2.84

848, 1.95071, 2.26425, 0.98195, 1.6944, 1.95335, 1.9493900000000002, 1.89894, 1.44395, 2.

6343, 2.1156900000000003, 2.44191, 1.68135, 2.4920400000000003, 2.20857, 1.885009999999999

99, 2.5332, 1.46494, 2.27394, 2.5945, 1.6158299999999999, 3.6021400000000003, 1.876340000

0000001]

Mean absolute error:- 0.00022585267414233502

Mean squared error:- 7.27368225833027e-08

Root mean squared error:- 0.0002696976503110524

r2 Score:- 0.9999997376071356

At random state 149 the model performs very well

At random state 149

Training score is

0.9999996884565763

Predicted value is [1.88957592 1.24126134 2.80731393 1.38103103 2.11003995 1.79316456

2.05104143 3.03479798 1.57037245 0.65454558 3.60172952 1.84414832

2.20140367 3.19107622 2.26645769 2.44221148 2.82354912 1.87873602

2.41448907 1.99173183 1.85996331 1.9584737 2.47491847 1.94944016

1.57173164 2.67615693 2.89320496 2.44688863 2.18866611 1.85110723] and Actual value is [

1.8893099999999998, 1.24074, 2.807909999999997, 1.38079, 2.11032, 1.79293, 2.05125, 3.03

5, 1.57059, 0.654289999999999, 3.602140000000003, 1.84408, 2.20173, 3.19130999999996,

2.26646, 2.44191, 2.82334, 1.87877, 2.414840000000003, 1.991720000000002, 1.8604, 1.958

12, 2.4748900000000003, 1.949390000000002, 1.5714, 2.67585, 2.89319, 2.4464900000000003,

2.18896, 1.851]

Mean absolute error:- 0.00024311825670185008

Mean squared error:- 8.200033549146811e-08

Root mean squared error:- 0.0002863570070584411

r2 Score:- 0.999999776827185

At random state 150 the model performs very well

At random state 150

Training score is

0.9999997311585586

Predicted value is [2.44686808 2.24631058 1.38091861 2.0248436 2.09024109 2.83597734

3.60184787 2.85764312 2.20152606 2.75458649 2.49194012 1.461832

1.57163321 2.32373494 1.99179634 2.32309752 1.61623835 1.87877995

1.7193064 2.20788327 1.88956278 1.89858393 1.96939304 2.2641349

2.10986652 2.000817 1.64836246 1.4441786 1.92342698 2.45371366] and Actual value is [

2.4464900000000003, 2.2463900000000003, 1.38079, 2.025, 2.090659999999997, 2.836000000000

00003, 3.6021400000000003, 2.85737, 2.20173, 2.75414, 2.4920400000000003, 1.46181, 1.5714

, 2.32407, 1.991720000000002, 2.32323, 1.615829999999999, 1.87877, 1.719559999999998,

2.20857, 1.889309999999998, 1.89894, 1.969609999999999, 2.26425, 2.11032, 2.00073, 1.64

88, 1.44395, 1.92313, 2.453729999999997]

Mean absolute error:- 0.00023727367085849178

Mean squared error:- 8.22256375968529e-08

Root mean squared error:- 0.00028675013094478773

r2 Score:- 0.9999996362976401

At random state 151 the model performs very well

At random state 151
Training score is
0.9999996983948637
Predicted value is [1.68157241 3.19110228 1.34735392 2.49204817 1.21362358 2.26424793
2.23231256 2.3237809 2.06395592 2.02501237 2.37157597 1.42784832
1.73798881 1.75332754 2.53919444 2.79071912 1.63321103 2.76612639
2.04405896 1.24123838 1.79314278 2.4468567 2.51751021 3.05122767
2.3086895 2.43248687 1.96972478 0.65458734 2.84822769 1.41718738] and Actual value is [
1.68135, 3.1913099999999996, 1.34759, 2.4920400000000003, 1.21305, 2.26425, 2.2327, 2.324
07, 2.06367, 2.025179999999998, 2.3711900000000004, 1.42766, 1.7379900000000001, 1.7536,
2.5394200000000002, 2.79094, 1.633279999999998, 2.76579, 2.0438400000000003, 1.24074, 1.
79293, 2.4464900000000003, 2.517379999999997, 3.05137, 2.30919, 2.43209, 1.9699400000000
002, 0.654289999999999, 2.84848, 1.41723]
Mean absolute error:- 0.0002451203513993749
Mean squared error:- 8.060801989874384e-08
Root mean squared error:- 0.0002839155154244724
r2 Score:- 0.9999997674617361

At random state 152 the model performs very well

At random state 152

Training score is

0.9999997037310802

Predicted value is [2.79061846 1.71927858 2.32306582 2.05105446 2.47494333 2.37158745
2.45362446 2.82356856 2.24709853 2.80733032 2.51751659 2.8669959
2.53919811 2.7986729 1.44423522 1.63324805 0.67148391 0.65458334
1.89858004 2.48650473 2.43854737 2.44682742 2.1100455 2.84822125
1.88955777 1.59575274 2.50958643 2.46515643 1.63814039 1.61623142] and Actual value is [
2.79094, 1.7195599999999998, 2.32323, 2.05125, 2.4748900000000003, 2.3711900000000004, 2.
4537299999999997, 2.82334, 2.24729, 2.807909999999997, 2.517379999999997, 2.86712, 2.53
94200000000002, 2.79832, 1.44395, 1.633279999999998, 0.67108, 0.6542899999999999, 1.8989
4, 2.48676, 2.43872, 2.4464900000000003, 2.11032, 2.84848, 1.8893099999999998, 1.59541, 2.
.51011, 2.4653099999999997, 1.63794, 1.6158299999999999]
Mean absolute error:- 0.00026322045754957705
Mean squared error:- 8.47535424474825e-08
Root mean squared error:- 0.00029112461669787134
r2 Score:- 0.9999997498750713

At random state 153 the model performs very well

At random state 153

Training score is

0.9999997177107197

Predicted value is [1.57160043 2.67776267 2.13135979 0.98169677 2.09029188 1.68151953
2.45186936 0.9983932 1.86968208 1.78522788 2.11554477 1.87964515
2.3230411 2.7021691 2.44844709 2.53920744 1.87875563 0.65443308
2.85765013 2.7988385 2.24709465 1.95291525 2.21121863 3.03487779
2.08472244 2.50959484 3.26047871 2.23233835 1.94267846 2.45360833] and Actual value is [
1.5714, 2.67782, 2.1309, 0.98195, 2.09065999999997, 1.68135, 2.45175999999997, 0.9989
5, 1.8698400000000002, 1.78555, 2.115690000000003, 1.879959999999999, 2.32323, 2.70201,
2.44876, 2.5394200000000002, 1.87877, 0.654289999999999, 2.85737, 2.79832, 2.24729, 1.95
335, 2.21126, 3.035, 2.08528, 2.51011, 3.26001, 2.2327, 1.942959999999998, 2.4537299999
9997]
Mean absolute error:- 0.00026814111660687553
Mean squared error:- 9.636206555057558e-08
Root mean squared error:- 0.00031042239859677584
r2 Score:- 0.9999997124135259

At random state 154 the model performs very well

At random state 154

Training score is

0.9999997447622488

Predicted value is [1.46185023 1.69490385 2.85764975 2.53343568 3.60187599 2.12376402
1.95255056 2.10992506 2.06391163 2.44686751 2.24633235 1.86434635
1.85105956 1.86609608 2.74281105 0.89940983 1.75871659 2.43244124
2.27413314 2.43857635 1.8766377 1.86964787 2.76621075 2.11351132
2.50968361 1.86001196 1.92340836 2.09980614 1.78524594 1.68425437] and Actual value is [
1.46181, 1.6944, 2.85737, 2.5332, 3.602140000000003, 2.12367, 1.9521, 2.11032, 2.06367,

2.4464900000000003, 2.2463900000000003, 1.86399, 1.851, 1.86565, 2.74255, 0.89991, 1.75873, 2.43209, 2.27394, 2.43872, 1.8763400000000001, 1.8698400000000002, 2.76579, 2.11399000000003, 2.51011, 1.8604, 1.92313, 2.10017, 1.78555, 1.68435]

Mean absolute error:- 0.00028366961139674927
Mean squared error:- 1.011975847958631e-07
Root mean squared error:- 0.00031811567832450995
r2 Score:- 0.9999995789620083

At random state 155 the model performs very well

At random state 155

Training score is

0.9999997073547467

Predicted value is [3.60183213 2.18866326 1.57034744 2.32382141 3.10726884 2.49198372 0.99846842 2.43851666 3.17759562 1.73829799 2.53336781 2.02493703 3.19111233 2.08474566 1.46510764 2.11553041 1.83349747 2.70212551 2.63449291 1.96967005 2.50957217 1.68159517 2.31976193 2.43244118 1.444420683 1.92341258 1.26497564 1.95077189 2.11813437 2.21119987] and Actual value is [3.6021400000000003, 2.18896, 1.57059, 2.32407, 3.1070900000000004, 2.4920400000000003, 0.99895, 2.43872, 3.17728, 1.73797, 2.5332, 2.025179999999998, 3.191309999999996, 2.08528, 1.46494, 2.1156900000000003, 1.83302, 2.70201, 2.6343, 1.9699400000000002, 2.51011, 1.68135, 2.31945, 2.43209, 1.44395, 1.92313, 1.26462, 1.95071, 2.11773, 2.21126]

Mean absolute error:- 0.00026842786342037297

Mean squared error:- 8.830386735196959e-08

Root mean squared error:- 0.00029715966642862145

r2 Score:- 0.9999997426141085

At random state 156 the model performs very well

At random state 156

Training score is

0.9999996997997302

Predicted value is [2.61953119 1.85997574 3.051153 1.46501551 1.21356222 2.86694907 2.27542253 2.50985235 2.44839131 2.51750756 2.67775588 2.83593758 2.26648849 2.23228449 1.57037596 2.44683839 2.75454474 2.4536174 2.24711031 3.10727476 2.5334111 2.48660143 1.95068294 2.80734421 2.89320374 2.46561191 3.19107897 2.31978017 2.32130625 1.95592219] and Actual value is [2.61955, 1.8604, 3.05137, 1.46494, 1.21305, 2.86712, 2.27513, 2.51009, 2.44876, 2.51737999999997, 2.67782, 2.8360000000000003, 2.26646, 2.2327, 1.57059, 2.4464900000000003, 2.75414, 2.453729999999997, 2.24729, 3.1070900000000004, 2.5332, 2.48676, 1.95071, 2.80790999999997, 2.89319, 2.4657, 3.191309999999996, 2.31945, 2.3214200000000003, 1.95637000000002]

Mean absolute error:- 0.00022156815920009915

Mean squared error:- 7.28308288236593e-08

Root mean squared error:- 0.0002698718748288856

r2 Score:- 0.9999996605370479

At random state 157 the model performs very well

At random state 157

Training score is

0.9999996800989199

Predicted value is [2.53917977 1.59855893 2.32378758 0.99845112 2.27547977 1.95845126 1.94934212 1.88500768 2.86706442 2.74279464 2.83592191 2.08473508 3.1072962 1.21354947 3.0348207 2.61950898 2.51771247 3.60182438 2.8236357 2.11556727 1.87655898 1.73801689 2.09023404 3.19105428 1.92339422 1.57033609 1.38097943 1.4172033 2.45365161 1.99183891] and Actual value is [2.5394200000000002, 1.598879999999999, 2.32407, 0.99895, 2.27513, 1.95812, 1.9493900000000002, 1.88540999999998, 2.86712, 2.74255, 2.8360000000000003, 2.08528, 3.1070900000000004, 1.21305, 3.035, 2.61955, 2.51767, 3.6021400000000003, 2.82334, 2.1156900000000003, 1.8763400000000001, 1.7379900000000001, 2.0906599999999997, 3.191309999999996, 1.92313, 1.57059, 1.38079, 1.41723, 2.453729999999997, 1.9917200000000002]

Mean absolute error:- 0.0002319553468281462

Mean squared error:- 7.560156715001635e-08

Root mean squared error:- 0.00027495739151733373

r2 Score:- 0.999999804643565

At random state 158 the model performs very well
At random state 158
Training score is
0.9999997376120623

Predicted value is [1.63331998 1.95285485 2.11003021 2.46517039 2.76611589 1.79310903
1.80027759 2.26423672 2.51750874 2.20152625 2.43239055 2.2462268
1.73921154 1.87881847 1.42783585 2.12370846 1.34729772 2.21996587
1.46177316 2.24713028 2.02476406 2.48656645 1.94929368 2.2755071
2.50992511 1.8985236 2.59438336 2.02488293 0.8993039 1.63812386] and Actual value is [
1.6332799999999998, 1.95335, 2.11032, 2.4653099999999997, 2.76579, 1.79293, 1.801009999999
99998, 2.26425, 2.5173799999999997, 2.20173, 2.43209, 2.24639000000000003, 1.739329999999999
998, 1.87877, 1.42766, 2.12367, 1.34759, 2.21978, 1.46181, 2.24743, 2.025, 2.48676, 1.949
3900000000002, 2.27513, 2.51009, 1.89894, 2.5945, 2.0251799999999998, 0.89991, 1.63794]

Mean absolute error:- 0.00022983936358971963
Mean squared error:- 8.027653463324842e-08
Root mean squared error:- 0.0002833311395403767
r2 Score:- 0.9999995335261541

At random state 159 the model performs very well
At random state 159
Training score is
0.9999997379445899

Predicted value is [2.46551201 2.43857592 2.21121108 1.59579866 1.86607204 2.02489088
2.11354973 2.48667644 1.96963313 1.59902455 2.06397246 2.24190134
2.27409099 2.89322065 1.44418706 3.19113369 1.95252214 2.00080465
1.2136202 2.12510951 2.46510277 2.02498065 2.79884692 1.85112591
1.59862276 1.24121296 2.41447659 3.10732428 2.18862058 2.75459692] and Actual value is [
2.4657, 2.43872, 2.21126, 1.59541, 1.86565, 2.025, 2.1139900000000003, 2.48676, 1.9699400
000000002, 1.59927, 2.06367, 2.24173, 2.27394, 2.89319, 1.44395, 3.1913099999999996, 1.95
21, 2.00073, 1.21305, 2.12466, 2.4653099999999997, 2.0251799999999998, 2.79832, 1.851, 1.
5988799999999999, 1.24074, 2.4148400000000003, 3.1070900000000004, 2.18896, 2.75414]

Mean absolute error:- 0.00027152994525179904
Mean squared error:- 9.582014958341641e-08
Root mean squared error:- 0.0003095482992739847
r2 Score:- 0.999999603778749

At random state 160 the model performs very well
At random state 160
Training score is
0.9999997383500564

Predicted value is [0.99844108 2.67621897 2.44686506 2.21121684 2.11557771 2.11355482
2.47493415 1.83343676 1.87875088 1.85112813 1.88502823 1.62259899
3.03486203 2.26647573 2.24709788 1.42785591 2.50988497 2.51747364
2.61950316 1.92337175 2.76620614 2.79070126 1.84416953 1.86608316
2.31985785 1.61621236 1.7587526 2.45364091 1.75332568 2.27545266] and Actual value is [
0.99895, 2.67585, 2.4464900000000003, 2.21126, 2.1156900000000003, 2.1139900000000003, 2.
4748900000000003, 1.83302, 1.87877, 1.851, 1.885409999999998, 1.62215, 3.035, 2.26646, 2.
.24729, 1.42766, 2.51009, 2.517379999999997, 2.61955, 1.92313, 2.76579, 2.79094, 1.84408
, 1.86565, 2.31945, 1.6158299999999999, 1.75873, 2.4537299999999997, 1.7536, 2.27513]

Mean absolute error:- 0.00023626473417015886
Mean squared error:- 8.038667489481476e-08
Root mean squared error:- 0.00028352543959019754
r2 Score:- 0.999999595980535

At random state 161 the model performs very well
At random state 161
Training score is
0.9999997719575952

Predicted value is [1.94271074 1.61621645 1.59580893 1.34731024 2.30875995 2.24624081
2.06377801 1.86608222 2.37162129 2.50960688 1.95249577 2.67614095
2.51777802 1.86425852 1.80033527 2.48649578 2.02491201 2.20786117
2.27408512 2.26649757 2.13136472 2.21126983 1.9234149 2.11563236
1.59857943 1.93108117 2.24178243 1.63335504 2.63444792 3.17765384] and Actual value is [
1.9429599999999998, 1.6158299999999999, 1.59541, 1.34759, 2.30919, 2.2463900000000003, 2.
06367, 1.86565, 2.371190000000004, 2.51011, 1.9521, 2.67585, 2.51767, 1.86399, 1.8010099
999999998, 2.48676, 2.0251799999999998, 2.20857, 2.27394, 2.26646, 2.1309, 2.21126, 1.923

13, 2.1156900000000003, 1.5988799999999999, 1.9312900000000002, 2.24173, 1.633279999999999
98, 2.6343, 3.17728]

Mean absolute error:- 0.0002835245145065057

Mean squared error:- 1.1150323850378433e-07

Root mean squared error:- 0.0003339210063829233

r2 Score:- 0.9999992291838228

At random state 162 the model performs very well

At random state 162

Training score is

0.9999997152989542

Predicted value is [0.89945234 2.70217502 2.47504395 2.43249245 0.98175201 1.46503973
2.18864577 1.88532916 1.95594733 2.45189209 2.51754807 2.61958352
1.94933885 1.21362868 2.85764816 1.95070798 1.26501974 2.51768917
2.24713936 3.08885239 2.24184981 2.1250848 1.71926624 2.86696594
1.9697109 1.88962385 1.62259449 2.044052 1.58830399 1.79311111] and Actual value is [
0.89991, 2.70201, 2.4748900000000003, 2.43209, 0.98195, 1.46494, 2.18896, 1.885009999999999
99, 1.9563700000000002, 2.4517599999999997, 2.5173799999999997, 2.61955, 1.949390000000000
002, 1.21305, 2.85737, 1.95071, 1.26462, 2.51767, 2.24729, 3.08854, 2.24173, 2.12466, 1.7
195599999999998, 2.86712, 1.9699400000000002, 1.8893099999999998, 1.62215, 2.0438400000000
003, 1.58782, 1.79293]

Mean absolute error:- 0.0002505158034815473

Mean squared error:- 8.527550013309717e-08

Root mean squared error:- 0.00029201969134477415

r2 Score:- 0.9999997143666953

At random state 163 the model performs very well

At random state 163

Training score is

0.9999997335223777

Predicted value is [2.50958059 1.95848001 1.96965932 1.46167132 2.11551453 2.82367294
2.79887912 1.42784177 1.75872707 3.17764397 1.88956745 1.9917596
3.1911868 2.51768931 2.43855355 1.34727949 0.99839198 2.32385588
2.85765507 1.61616332 1.69475074 2.32133967 2.37154929 2.30872454
1.85996353 2.46555381 2.43247447 2.1237358 1.88497005 2.47497855] and Actual value is [
2.51011, 1.95812, 1.9699400000000002, 1.46181, 2.1156900000000003, 2.82334, 2.79832, 1.42
766, 1.75873, 3.17728, 1.8893099999999998, 1.9917200000000002, 3.1913099999999996, 2.5176
7, 2.43872, 1.34759, 0.99895, 2.32407, 2.85737, 1.6158299999999999, 1.6944, 2.32142000000
00003, 2.3711900000000004, 2.30919, 1.8604, 2.4657, 2.43209, 2.12367, 1.8854099999999998,
2.4748900000000003]

Mean absolute error:- 0.0002683096667577304

Mean squared error:- 9.751473662998714e-08

Root mean squared error:- 0.00031227349652185847

r2 Score:- 0.9999996430799591

At random state 164 the model performs very well

At random state 164

Training score is

0.9999997452887333

Predicted value is [1.87871809 1.86428798 2.02485688 2.50987404 2.02498788 2.8932418
2.08474038 1.44411348 2.53340054 1.59855566 2.24704031 1.69481237
2.30874064 2.05102731 1.97542937 1.96967516 0.99836822 2.24629839
1.75870222 2.83597971 2.75458366 0.8993564 1.88499373 2.06391863
2.7428154 1.96934522 2.10995971 2.11352608 2.22003928 1.41707365] and Actual value is [
1.87877, 1.86399, 2.025, 2.51009, 2.025179999999998, 2.89319, 2.08528, 1.44395, 2.5332,
1.598879999999999, 2.24743, 1.6944, 2.30919, 2.05125, 1.9757, 1.9699400000000002, 0.9989
5, 2.2463900000000003, 1.75873, 2.8360000000000003, 2.75414, 0.89991, 1.8854099999999998,
2.06367, 2.74255, 1.969609999999999, 2.11032, 2.1139900000000003, 2.21978, 1.41723]

Mean absolute error:- 0.0002781364891537056

Mean squared error:- 1.0140124709417871e-07

Root mean squared error:- 0.000318435624725279

r2 Score:- 0.999999542404703

At random state 165 the model performs very well

At random state 165
Training score is
0.9999997062555204
Predicted value is [2.27543805 1.84414473 2.26651119 0.89937956 2.44685059 2.79883014
2.48666287 1.61620876 0.65444789 1.8852402 2.85767815 1.59858839
2.12377429 2.53921401 2.67622884 3.0348912 1.57163187 2.70223039
0.99841976 2.31986369 1.9507389 2.53345154 1.92336663 1.57034008
2.46519769 1.95598702 1.95843555 1.62256543 2.32311262 1.41714592] and Actual value is [
2.27513, 1.84408, 2.26646, 0.89991, 2.4464900000000003, 2.79832, 2.48676, 1.6158299999999999,
0.6542899999999999, 1.8850099999999999, 2.85737, 1.5988799999999999, 2.12367, 2.5394
200000000002, 2.67585, 3.035, 1.5714, 2.70201, 0.99895, 2.31945, 1.95071, 2.5332, 1.92313
, 1.57059, 2.4653099999999997, 1.9563700000000002, 1.95812, 1.62215, 2.32323, 1.41723]

Mean absolute error:- 0.0002559233432377147

Mean squared error:- 8.60763357430722e-08

Root mean squared error:- 0.00029338768846540273

r2 Score:- 0.9999997459366042

At random state 166 the model performs very well

At random state 166

Training score is

0.9999997394945114

Predicted value is [0.98170702 1.85996415 2.80742176 1.83348754 2.79066771 2.32126759
2.12508279 1.86968053 2.2470809 1.88956557 2.50956421 2.21118158
2.70206149 2.67771492 1.78522379 1.87657508 1.89857848 1.41718009
2.46509948 2.49197968 1.95254261 1.38095658 1.64833303 1.96968091
2.46553786 1.46506902 2.37151503 1.6948466 2.02487643 3.03482105] and Actual value is [
0.98195, 1.8604, 2.807909999999997, 1.83302, 2.79094, 2.321420000000003, 2.12466, 1.869
8400000000002, 2.24743, 1.889309999999998, 2.51011, 2.21126, 2.70201, 2.67782, 1.78555,
1.8763400000000001, 1.89894, 1.41723, 2.465309999999997, 2.4920400000000003, 1.9521, 1.3
8079, 1.6488, 1.9699400000000002, 2.4657, 1.46494, 2.3711900000000004, 1.6944, 2.025, 3.0
35]

Mean absolute error:- 0.0002657054449105319

Mean squared error:- 9.198131047973296e-08

Root mean squared error:- 0.00030328420743542346

r2 Score:- 0.9999995916984474

At random state 167 the model performs very well

At random state 167

Training score is

0.999999737137658

Predicted value is [2.24629413 2.70219468 1.92337057 2.24709687 1.78527947 2.26648116
1.64842884 2.12377426 2.53921388 3.05126932 1.6381353 3.17765613
1.80036116 2.51750435 1.2649974 2.30873267 2.45188486 2.23775147
2.21124075 2.5334263 2.06386093 1.8796658 2.0847239 1.84415936
2.32134788 2.1180969 2.89321471 1.2411575 2.85766917 2.43849712] and Actual value is [
2.2463900000000003, 2.70201, 1.92313, 2.24743, 1.78555, 2.26646, 1.6488, 2.12367, 2.53942
00000000002, 3.05137, 1.63794, 3.17728, 1.801009999999998, 2.517379999999997, 1.26462,
2.30919, 2.451759999999997, 2.237409999999997, 2.21126, 2.5332, 2.06367, 1.879959999999
9999, 2.08528, 1.84408, 2.321420000000003, 2.11773, 2.89319, 1.24074, 2.85737, 2.43872]

Mean absolute error:- 0.00024477529051878386

Mean squared error:- 8.436433496549458e-08

Root mean squared error:- 0.0002904553923849488

r2 Score:- 0.999999605713457

At random state 168 the model performs very well

At random state 168

Training score is

0.9999997336850835

Predicted value is [1.95841942 1.62255529 2.24709955 2.27545332 1.8796475 1.73928432
1.41719085 2.05113275 2.11554768 2.76615277 1.68158746 1.73829688
1.9233902 1.24115565 1.75335983 2.46514286 3.17759987 0.8994027
3.10709911 2.84827185 2.45364977 1.21359262 1.85998553 2.21119554
1.68425617 2.08474093 2.24627445 2.3213109 2.63447262 2.20795452] and Actual value is [
1.95812, 1.62215, 2.24743, 2.27513, 1.879959999999999, 1.739329999999998, 1.41723, 2.05
125, 2.115690000000003, 2.76579, 1.68135, 1.73797, 1.92313, 1.24074, 1.7536, 2.465309999
9999997, 3.17728, 0.89991, 3.10712, 2.84848, 2.453729999999997, 1.21305, 1.8604, 2.21126

, 1.68435, 2.08528, 2.2463900000000003, 2.3214200000000003, 2.6343, 2.20857]

Mean absolute error:- 0.0002609755760850726

Mean squared error:- 9.45782561031463e-08

Root mean squared error:- 0.0003075357801998758

r2 Score:- 0.9999996611082639

At random state 169 the model performs very well

At random state 169

Training score is

0.9999997298854713

Predicted value is [2.46561456 2.2419253 1.96941291 2.13139172 2.22003608 1.73831483
3.10732425 1.61619601 2.37158697 0.65445411 1.95298767 2.41453257
1.75872369 2.47499191 2.44223596 2.06395105 2.79886349 1.38097621
2.30874521 2.09982071 0.99840211 1.9493332 2.11557046 2.63449828
2.2754126 2.53342938 1.97549366 3.260516 2.7661909 2.12377142] and Actual value is [
2.4657, 2.24173, 1.9696099999999999, 2.1309, 2.21978, 1.73797, 3.1070900000000004, 1.6158
2999999999999, 2.3711900000000004, 0.6542899999999999, 1.95335, 2.4148400000000003, 1.7587
3, 2.4748900000000003, 2.44191, 2.06367, 2.79832, 1.38079, 2.30919, 2.10017, 0.99895, 1.9
4939000000000002, 2.1156900000000003, 2.6343, 2.27513, 2.5332, 1.9757, 3.26001, 2.76579, 2
.12367]

Mean absolute error:- 0.00027632449032274355

Mean squared error:- 9.714648012137294e-08

Root mean squared error:- 0.00031168330099858244

r2 Score:- 0.999999652002683

At random state 170 the model performs very well

At random state 170

Training score is

0.999997775479874

Predicted value is [1.87663789 1.89853203 2.63442353 1.88954503 2.09025501 1.80039962
1.62257726 2.05104715 2.80738924 2.09979425 1.92337986 2.37159659
1.95249227 2.44685367 2.00080397 2.12375457 2.20144947 2.44219157
2.51752752 2.75453218 1.63323322 2.11353142 1.8333461 2.50992533
2.0847883 2.45363787 2.43245684 1.73926379 1.99178434 1.73794863] and Actual value is [
1.8763400000000001, 1.89894, 2.6343, 1.8893099999999998, 2.0906599999999997, 1.8010099999
99998, 1.62215, 2.05125, 2.80790999999997, 2.10017, 1.92313, 2.3711900000000004, 1.952
1, 2.4464900000000003, 2.00073, 2.12367, 2.20173, 2.44191, 2.517379999999997, 2.75414, 1
.6332799999999998, 2.1139900000000003, 1.83302, 2.51009, 2.08528, 2.4537299999999997, 2.4
3209, 1.7393299999999998, 1.9917200000000002, 1.7379900000000001]

Mean absolute error:- 0.00027992832839262384

Mean squared error:- 1.0331274277273041e-07

Root mean squared error:- 0.0003214229966457447

r2 Score:- 0.9999990186951992

At random state 171 the model performs very well

At random state 171

Training score is

0.9999997168651537

Predicted value is [2.75457833 1.5990317 2.49206305 2.12509023 1.99175312 2.10998381
1.63326188 2.02502136 2.32135111 1.76147085 1.88534674 1.68437203
2.06391594 1.73840572 1.69484744 2.0511198 0.89950237 2.85761411
2.51754262 0.65460603 0.67144951 1.58833721 2.18863449 3.10706202
2.4421376 2.80735414 2.11811395 1.21363273 1.86612265 1.95593674] and Actual value is [
2.75414, 1.59927, 2.4920400000000003, 2.12466, 1.9917200000000002, 2.11032, 1.63327999999
99998, 2.025179999999998, 2.3214200000000003, 1.76145, 1.8850099999999999, 1.68435, 2.06
367, 1.73797, 1.6944, 2.05125, 0.89991, 2.85737, 2.517379999999997, 0.6542899999999999,
0.67108, 1.58782, 2.18896, 3.10712, 2.44191, 2.807909999999997, 2.11773, 1.21305, 1.8656
5, 1.9563700000000002]

Mean absolute error:- 0.00028134810781889065

Mean squared error:- 1.0950105183457636e-07

Root mean squared error:- 0.00033090943146815314

r2 Score:- 0.999999679565083

At random state 172 the model performs very well

At random state 172
Training score is
0.9999997419754671
Predicted value is [2.82365791 2.20790353 1.97545923 1.24122418 3.10709501 2.84828113
3.05114898 2.53341794 1.860098 1.44418483 1.26508194 2.32131899
1.46507721 2.63444241 1.62261612 1.57043596 2.1099015 1.95597397
2.27415156 2.22007354 1.79311112 1.63812146 1.95251724 1.88964258
1.61628176 2.1251196 2.02500436 1.99181478 1.93120112 1.83339726] and Actual value is [
2.82334, 2.20857, 1.9757, 1.24074, 3.10712, 2.84848, 3.05137, 2.5332, 1.8604, 1.44395, 1.
26462, 2.3214200000000003, 1.46494, 2.6343, 1.62215, 1.57059, 2.11032, 1.9563700000000002
, 2.27394, 2.21978, 1.79293, 1.63794, 1.9521, 1.8893099999999998, 1.6158299999999999, 2.1
2466, 2.0251799999999998, 1.9917200000000002, 1.9312900000000002, 1.83302]
Mean absolute error:- 0.00028172189572257534
Mean squared error:- 1.0143087614658685e-07
Root mean squared error:- 0.0003184821441566024
r2 Score:- 0.9999995705813958

At random state 173 the model performs very well

At random state 173

Training score is

0.9999997086424889

Predicted value is [2.53343378 2.26420243 2.04402505 3.10726443 2.79062633 3.05112649
1.78524187 1.59859406 2.27548708 2.80735117 2.12508935 2.22006839
2.10989238 2.51768195 1.61626589 3.17760788 0.67144751 2.70215772
1.38094539 2.44690747 1.94938061 1.87968757 1.991772 1.89858891
1.68434949 2.05097232 1.57039635 1.79309805 1.21353531 2.46560061] and Actual value is [
2.5332, 2.26425, 2.0438400000000003, 3.1070900000000004, 2.79094, 3.05137, 1.78555, 1.598
87999999999999, 2.27513, 2.8079099999999997, 2.12466, 2.21978, 2.11032, 2.51767, 1.6158299
9999999999, 3.17728, 0.67108, 2.70201, 1.38079, 2.4464900000000003, 1.9493900000000002, 1.
8799599999999999, 1.9917200000000002, 1.89894, 1.68435, 2.05125, 1.57059, 1.79293, 1.2130
5, 2.4657]
Mean absolute error:- 0.0002542219039696573
Mean squared error:- 8.6254321395558e-08
Root mean squared error:- 0.00029369086025199696
r2 Score:- 0.9999997331885728

At random state 174 the model performs very well

At random state 174

Training score is

0.9999997286403063

Predicted value is [2.41453537 1.64835909 1.71922404 2.23774992 1.59857497 2.50989558
2.32135681 1.26498985 1.59894943 3.17768648 1.95288426 2.27412001
1.87884304 2.0007938 2.44854328 2.31976452 2.44220069 2.74284986
1.99181294 1.4171574 2.49201899 1.59574961 2.05110656 2.11559869
2.246281 2.02482736 3.10727115 2.12507771 1.92341775 2.85767997] and Actual value is [
2.4148400000000003, 1.6488, 1.7195599999999998, 2.2374099999999997, 1.5988799999999999, 2
.51009, 2.3214200000000003, 1.26462, 1.59927, 3.17728, 1.95335, 2.27394, 1.87877, 2.00073
, 2.44876, 2.31945, 2.44191, 2.74255, 1.9917200000000002, 1.41723, 2.4920400000000003, 1.
59541, 2.05125, 2.1156900000000003, 2.2463900000000003, 2.025, 3.1070900000000004, 2.1246
6, 1.92313, 2.85737]
Mean absolute error:- 0.00024081563315068907
Mean squared error:- 7.402413491022721e-08
Root mean squared error:- 0.0002720737674055094
r2 Score:- 0.9999996483215079

At random state 175 the model performs very well

At random state 175

Training score is

0.9999997247818346

Predicted value is [2.13137907 2.02500374 2.82366784 2.24631908 2.32133206 1.57164687
2.67620998 1.85110431 0.99841961 1.76144401 1.97545614 3.10717102
1.61620177 2.75458937 2.79077118 3.1776548 1.62256621 1.86966015
2.24711506 2.20150777 2.89322303 2.11556159 1.80045394 2.84830572
1.83344048 2.22005344 2.44685944 2.46557533 2.86705693 1.78525079] and Actual value is [
2.1309, 2.025179999999998, 2.82334, 2.2463900000000003, 2.3214200000000003, 1.5714, 2.67
585, 1.851, 0.99895, 1.76145, 1.9757, 3.10712, 1.6158299999999999, 2.75414, 2.79094, 3.17

728, 1.62215, 1.8698400000000002, 2.24729, 2.20173, 2.89319, 2.1156900000000003, 1.801009
9999999998, 2.84848, 1.83302, 2.21978, 2.4464900000000003, 2.4657, 2.86712, 1.78555]

Mean absolute error:- 0.0002494843737880226

Mean squared error:- 8.581987470868102e-08

Root mean squared error:- 0.00029295029392147916

r2 Score:- 0.9999996783443167

At random state 176 the model performs very well

At random state 176

Training score is

0.9999997603003125

Predicted value is [1.59895479 2.04398311 1.94928163 1.73922202 2.30872986 2.32131146
2.46514313 1.95247772 1.63331979 2.5177304 3.03481513 2.67775174
2.5174951 1.75334373 1.95287584 2.26643664 1.92339474 2.02477777
2.10995188 2.48648472 1.88524503 2.2078393 2.44848847 1.64834122
2.50983566 2.11807909 2.59437573 1.59854539 2.18860361 2.08473448] and Actual value is [
1.59927, 2.0438400000000003, 1.9493900000000002, 1.7393299999999998, 2.30919, 2.321420000
0000003, 2.4653099999999997, 1.9521, 1.6332799999999998, 2.51767, 3.035, 2.67782, 2.51737
99999999997, 1.7536, 1.95335, 2.26646, 1.92313, 2.025, 2.11032, 2.48676, 1.8850099999999999
99, 2.20857, 2.44876, 1.6488, 2.51009, 2.11773, 2.5945, 1.5988799999999999, 2.18896, 2.08
528]

Mean absolute error:- 0.0002600257713975059

Mean squared error:- 9.427781044808344e-08

Root mean squared error:- 0.00030704691896855674

r2 Score:- 0.999999247559248

At random state 177 the model performs very well

At random state 177

Training score is

0.9999997602772859

Predicted value is [2.85765034 2.02485652 2.44688095 2.50959744 1.92344183 1.88957964
2.32375603 1.95843375 2.46553019 2.79884867 1.87876116 2.113521
2.43861895 2.13139647 2.43249714 1.7392915 3.03488777 2.18861546
1.46189215 2.75460758 1.87667547 2.20797871 1.9507655 2.2112567
2.53923008 2.41452346 1.34730017 1.26501484 2.82366738 1.73836321] and Actual value is [
2.85737, 2.025, 2.4464900000000003, 2.51011, 1.92313, 1.8893099999999998, 2.32407, 1.9581
2, 2.4657, 2.79832, 1.87877, 2.1139900000000003, 2.43872, 2.1309, 2.43209, 1.739329999999
9998, 3.035, 2.18896, 1.46181, 2.75414, 1.8763400000000001, 2.20857, 1.95071, 2.21126, 2.
5394200000000002, 2.4148400000000003, 1.34759, 1.26462, 2.82334, 1.73797]

Mean absolute error:- 0.00028865915971967306

Mean squared error:- 1.0979658813561927e-07

Root mean squared error:- 0.0003313556822141719

r2 Score:- 0.9999994333570023

At random state 178 the model performs very well

At random state 178

Training score is

0.9999997036589451

Predicted value is [2.53919509 1.87870137 1.58824179 2.27550676 2.7022064 1.85999
2.47502749 1.71924411 2.75458992 0.65456565 1.73930705 2.5334456
1.57159874 1.69492737 1.46500934 2.1135155 2.83595063 2.82363088
3.19109681 2.51770902 2.50986797 2.43860357 1.75872711 1.63326612
2.20146018 1.88966521 2.37159497 2.61953737 3.17760317 1.78522687] and Actual value is [
2.5394200000000002, 1.87877, 1.58782, 2.27513, 2.70201, 1.8604, 2.4748900000000003, 1.719
5599999999998, 2.75414, 0.6542899999999999, 1.7393299999999998, 2.5332, 1.5714, 1.6944, 1
.46494, 2.1139900000000003, 2.8360000000000003, 2.82334, 3.1913099999999996, 2.51767, 2.5
109, 2.43872, 1.75873, 1.6332799999999998, 2.20173, 1.8893099999999998, 2.371190000000000
04, 2.61955, 3.17728, 1.78555]

Mean absolute error:- 0.000235084666640686

Mean squared error:- 7.854644554336992e-08

Root mean squared error:- 0.0002802613878923922

r2 Score:- 0.999999750630633

At random state 179 the model performs very well

At random state 179
Training score is
0.9999997402590949
Predicted value is [2.02495484 1.68158148 2.80744939 1.99183663 2.49198164 3.05115741
1.62256116 2.45372358 2.26418149 2.275541 1.95252963 1.94275859
1.6843017 2.85762127 1.97544576 2.44215425 2.41451248 1.95293044
2.83595253 3.10728695 2.82364617 1.58827204 1.24113736 2.20787895
2.12375778 2.2471539 1.93112142 2.18863066 1.59857772 1.85108692] and Actual value is [
2.0251799999999998, 1.68135, 2.8079099999999997, 1.9917200000000002, 2.4920400000000003,
3.05137, 1.62215, 2.4537299999999997, 2.26425, 2.27513, 1.9521, 1.9429599999999998, 1.684
35, 2.85737, 1.9757, 2.44191, 2.4148400000000003, 1.95335, 2.8360000000000003, 3.10709000
00000004, 2.82334, 1.58782, 1.24074, 2.20857, 2.12367, 2.24729, 1.9312900000000002, 2.188
96, 1.5988799999999999, 1.851]
Mean absolute error:- 0.00025267133260430027
Mean squared error:- 8.853919864520348e-08
Root mean squared error:- 0.00029755537072149026
r2 Score:- 0.9999995876754646

At random state 180 the model performs very well

At random state 180

Training score is

0.9999997408767999

Predicted value is [2.85767222 2.67617189 2.74283949 2.05116615 2.4422099 1.89853829
2.23776346 1.68426196 2.32135056 2.70216401 2.02480521 0.89935421
1.57159506 2.09975979 2.63453175 1.3473076 1.79318024 1.76144481
2.79889958 3.03489521 2.37157611 2.50960697 2.23234015 1.2411243
2.08473234 2.12499706 1.92339684 1.46183882 2.32382247 1.94935661] and Actual value is [
2.85737, 2.67585, 2.74255, 2.05125, 2.44191, 1.89894, 2.2374099999999997, 1.68435, 2.3214
200000000003, 2.70201, 2.025, 0.89991, 1.5714, 2.10017, 2.6343, 1.34759, 1.79293, 1.76145
, 2.79832, 3.035, 2.3711900000000004, 2.51011, 2.2327, 1.24074, 2.08528, 2.12466, 1.92313
, 1.46181, 2.32407, 1.9493900000000002]

Mean absolute error:- 0.00027561399612839507

Mean squared error:- 1.0072529711211872e-07

Root mean squared error:- 0.0003173724895325975

r2 Score:- 0.9999996084293812

At random state 181 the model performs very well

At random state 181

Training score is

0.9999997069150944

Predicted value is [2.09024524 2.44222078 1.94937036 0.99846588 2.11815137 2.24186989
2.32379343 1.79316306 2.04402772 2.1237446 1.75869934 1.8765599
2.67614553 2.11557751 1.57032974 3.05126182 3.60179269 2.20146644
1.89853991 2.00076585 1.6815204 1.57165999 2.48660493 2.49202407
3.19106918 1.24115554 2.63442534 2.09978322 2.24629228 2.43853324] and Actual value is [
2.0906599999999997, 2.44191, 1.9493900000000002, 0.99895, 2.11773, 2.24173, 2.32407, 1.79
293, 2.0438400000000003, 2.12367, 1.75873, 1.8763400000000001, 2.67585, 2.1156900000000000
3, 1.57059, 3.05137, 3.602140000000003, 2.20173, 1.89894, 2.00073, 1.68135, 1.5714, 2.48
676, 2.4920400000000003, 3.1913099999999996, 1.24074, 2.6343, 2.10017, 2.2463900000000003
, 2.43872]

Mean absolute error:- 0.00022302290218922938

Mean squared error:- 6.711998804652497e-08

Root mean squared error:- 0.0002590752555658779

r2 Score:- 0.9999997631667454

At random state 182 the model performs very well

At random state 182

Training score is

0.9999997436319186

Predicted value is [1.95290078 2.04399444 2.20788608 1.76144707 1.59857655 2.12378656
1.97548646 2.24179491 2.85767321 2.83598665 2.63444597 1.95250993
1.79311358 2.75456075 1.41717019 2.76615597 2.06384031 1.61625292
1.86435589 1.57036471 2.32310937 1.95077954 1.63815605 2.05103313
1.46506775 1.94274876 1.73825492 2.09024081 2.74284185 2.44850403] and Actual value is [
1.95335, 2.0438400000000003, 2.20857, 1.76145, 1.5988799999999999, 2.12367, 1.9757, 2.241
73, 2.85737, 2.8360000000000003, 2.6343, 1.9521, 1.79293, 2.75414, 1.41723, 2.76579, 2.06

367, 1.6158299999999999, 1.86399, 1.57059, 2.32323, 1.95071, 1.63794, 2.05125, 1.46494, 1
.9429599999999998, 1.73797, 2.0906599999999997, 2.74255, 2.44876]

Mean absolute error:- 0.00024299893183777528
Mean squared error:- 8.17575686538652e-08
Root mean squared error:- 0.00028593280443814975
r2 Score:- 0.9999995314555975

At random state 183 the model performs very well

At random state 183

Training score is

0.9999996936061304

Predicted value is [2.67621104 2.32131956 2.23769398 2.32307606 3.08888791 0.67135347
1.87962545 0.99837162 1.9507319 2.05110269 2.63448235 2.59440189
2.02483638 2.67776547 1.8003507 2.89327205 1.62252114 2.00073065
1.96972169 2.21118949 2.11354884 2.75453504 1.41713612 1.96938356
3.05131884 1.83342491 2.86708464 2.44219958 0.89933163 3.10716142] and Actual value is [
2.67585, 2.3214200000000003, 2.2374099999999997, 2.32323, 3.08854, 0.67108, 1.879959999999
99999, 0.99895, 1.95071, 2.05125, 2.6343, 2.5945, 2.025, 2.67782, 1.801009999999998, 2.8
9319, 1.62215, 2.00073, 1.9699400000000002, 2.21126, 2.1139900000000003, 2.75414, 1.41723
, 1.9696099999999999, 3.05137, 1.83302, 2.86712, 2.44191, 0.89991, 3.10712]

Mean absolute error:- 0.00023535992624173311

Mean squared error:- 8.707667105429998e-08

Root mean squared error:- 0.00029508756506213535

r2 Score:- 0.9999997730824086

At random state 184 the model performs very well

At random state 184

Training score is

0.9999997638935063

Predicted value is [1.88499547 2.44222794 1.44425289 2.00078535 1.8894777 2.11814762
2.24711787 1.86431282 2.27552359 2.82366106 2.12373181 2.20158483
2.48650671 1.87891652 1.58824455 1.76136367 2.51776956 3.10713704
1.80028552 2.50957285 2.09015252 2.09970054 2.67774282 1.95284078
1.87965701 2.21122339 1.92342547 1.93102147 1.6815274 2.43845836] and Actual value is [
1.8854099999999998, 2.44191, 1.44395, 2.00073, 1.889309999999998, 2.11773, 2.24729, 1.86
399, 2.27513, 2.82334, 2.12367, 2.20173, 2.48676, 1.87877, 1.58782, 1.76145, 2.51767, 3.1
0712, 1.801009999999998, 2.51011, 2.09065999999997, 2.10017, 2.67782, 1.95335, 1.87995
999999999999, 2.21126, 1.92313, 1.9312900000000002, 1.68135, 2.43872]

Mean absolute error:- 0.00027625064683125535

Mean squared error:- 1.0598583155226132e-07

Root mean squared error:- 0.0003255546521741953

r2 Score:- 0.9999992156328219

At random state 185 the model performs very well

At random state 185

Training score is

0.9999997214750938

Predicted value is [1.58829549 2.23776832 2.41453731 1.96944015 1.94927904 2.37160237
1.24119948 1.63324217 1.73803205 1.88500904 2.06394508 1.57037845
2.74281521 2.67777824 1.75875689 2.27407974 1.84420593 1.69477812
2.0998212 1.44421877 2.8670221 2.70218066 2.6762015 1.94269012
0.99843707 0.67144514 1.59576758 2.26651082 2.13140699 1.8511248] and Actual value is [
1.58782, 2.2374099999999997, 2.4148400000000003, 1.969609999999999, 1.9493900000000002,
2.3711900000000004, 1.24074, 1.633279999999998, 1.7379900000000001, 1.885409999999998,
2.06367, 1.57059, 2.74255, 2.67782, 1.75873, 2.27394, 1.84408, 1.6944, 2.10017, 1.44395,
2.86712, 2.70201, 2.67585, 1.942959999999998, 0.99895, 0.67108, 1.59541, 2.26646, 2.1309
, 1.851]

Mean absolute error:- 0.00025533491091202324

Mean squared error:- 8.774868202777484e-08

Root mean squared error:- 0.0002962240402596907

r2 Score:- 0.9999996628647695

At random state 186 the model performs very well

At random state 186

Training score is
0.9999997567225086
Predicted value is [2.51769915 2.21122487 3.10714166 2.8482845 2.31980961 2.76616309
2.24711403 2.75456259 1.57034917 2.09026758 1.62256321 1.95597554
1.38094546 2.09978756 2.06387696 2.6777871 2.26422074 2.59440734
1.58825106 1.95297219 1.78525202 2.43244668 1.64839474 2.26646178
1.87659944 2.67617366 1.69481467 1.80040424 2.04401053 2.44219407] and Actual value is [
2.51767, 2.21126, 3.10712, 2.84848, 2.31945, 2.76579, 2.24743, 2.75414, 1.57059, 2.090659
9999999997, 1.62215, 1.9563700000000002, 1.38079, 2.10017, 2.06367, 2.67782, 2.26425, 2.5
945, 1.58782, 1.95335, 1.78555, 2.43209, 1.6488, 2.26646, 1.8763400000000001, 2.67585, 1.
6944, 1.8010099999999998, 2.0438400000000003, 2.44191]

Mean absolute error:- 0.0002674003308381708

Mean squared error:- 9.597914865103953e-08

Root mean squared error:- 0.0003098050171495606

r2 Score:- 0.9999994912131639

At random state 187 the model performs very well

At random state 187

Training score is

0.999997217755859

Predicted value is [2.89318562 1.59896601 1.86002022 1.84414623 2.53339905 1.97547718
1.42787179 2.11002752 1.75872109 2.67777831 1.95845206 2.00079952
2.85763429 1.96970335 1.59860108 1.41718739 2.24180427 1.63323185
2.51752123 2.50991065 2.2753748 3.10708832 2.45186236 1.21361969
1.58830958 2.23234025 2.2377462 1.85106722 2.80737124 1.95073702] and Actual value is [
2.89319, 1.59927, 1.8604, 1.84408, 2.5332, 1.9757, 1.42766, 2.11032, 1.75873, 2.67782, 1.
95812, 2.00073, 2.85737, 1.9699400000000002, 1.5988799999999999, 1.41723, 2.24173, 1.6332
799999999998, 2.517379999999997, 2.51009, 2.27513, 3.10712, 2.451759999999997, 1.21305,
1.58782, 2.2327, 2.237409999999997, 1.851, 2.807909999999997, 1.95071]

Mean absolute error:- 0.0002055079288720174

Mean squared error:- 6.72218583948365e-08

Root mean squared error:- 0.0002592717848028136

r2 Score:- 0.9999997062741373

At random state 188 the model performs very well

At random state 188

Training score is

0.999997098707801

Predicted value is [1.26503341 1.68430565 2.32309349 2.08473466 1.73832893 2.51749167
2.12377282 2.45361982 1.46175215 1.41715148 1.96942481 1.85999554
2.24710657 3.10709061 1.21366229 2.12501155 1.46503042 1.94266558
1.69481112 3.08884694 1.75338092 2.74282989 1.95293867 0.65453809
3.26043893 2.51763568 2.11351641 2.8236688 2.44842669 1.84417423] and Actual value is [
1.26462, 1.68435, 2.32323, 2.08528, 1.73797, 2.517379999999997, 2.12367, 2.45372999999999
997, 1.46181, 1.41723, 1.969609999999999, 1.8604, 2.24743, 3.10712, 1.21305, 2.12466, 1.
46494, 1.942959999999998, 1.6944, 3.08854, 1.7536, 2.74255, 1.95335, 0.6542899999999999,
3.26001, 2.51767, 2.1139900000000003, 2.82334, 2.44876, 1.84408]

Mean absolute error:- 0.0002606777384076072

Mean squared error:- 9.389824273395567e-08

Root mean squared error:- 0.0003064282015969739

r2 Score:- 0.9999997324021067

At random state 189 the model performs very well

At random state 189

Training score is

0.999999675399462

Predicted value is [0.6546009 2.45357054 2.44687419 2.63441145 1.42791463 1.57036704
2.21126481 1.58835047 0.9817404 1.84417501 1.38101783 1.68437762
2.04405726 1.21368966 2.30865952 1.34741797 3.6017384 2.12379914
1.46181744 1.61625733 2.80728638 2.26648203 2.49204065 2.20144843
2.86698835 2.24634074 2.76607674 2.59436428 1.68155214 2.46556306] and Actual value is [
0.654289999999999, 2.453729999999997, 2.4464900000000003, 2.6343, 1.42766, 1.57059, 2.2
1126, 1.58782, 0.98195, 1.84408, 1.38079, 1.68435, 2.0438400000000003, 1.21305, 2.30919,
1.34759, 3.6021400000000003, 2.12367, 1.46181, 1.615829999999999, 2.807909999999997, 2.
26646, 2.4920400000000003, 2.20173, 2.86712, 2.2463900000000003, 2.76579, 2.5945, 1.68135
, 2.4657]

Mean absolute error:- 0.0002311397339893236
Mean squared error:- 8.534654462869769e-08
Root mean squared error:- 0.00029214130934994057
r2 Score:- 0.9999997883230711

At random state 190 the model performs very well
At random state 190
Training score is
0.999997467895915

Predicted value is [2.0847101 1.97550245 2.46561403 2.70217492 1.63815206 2.2323419
1.95076788 1.88523757 1.85104732 2.51751055 2.63446855 2.05111474
2.09973201 3.03482518 2.24711425 2.45189788 2.13133536 1.80031113
1.8985373 2.48661879 1.21359215 2.8482704 1.86968965 2.27544295
2.86702552 2.44216124 2.11558893 2.41451046 2.85762973 2.67615817] and Actual value is [
2.08528, 1.9757, 2.4657, 2.70201, 1.63794, 2.2327, 1.95071, 1.8850099999999999, 1.851, 2.
5173799999999997, 2.6343, 2.05125, 2.10017, 3.035, 2.24729, 2.4517599999999997, 2.1309, 1
.801009999999998, 1.89894, 2.48676, 1.21305, 2.84848, 1.8698400000000002, 2.27513, 2.867
12, 2.44191, 2.1156900000000003, 2.4148400000000003, 2.85737, 2.67585]

Mean absolute error:- 0.0002506495084946492
Mean squared error:- 8.789273655486176e-08
Root mean squared error:- 0.0002964670918582057
r2 Score:- 0.9999994761401421

At random state 191 the model performs very well
At random state 191
Training score is
0.999997496672433

Predicted value is [3.03484597 2.21999595 2.53341642 1.88518598 1.61622555 3.17764083
2.80741682 2.24708104 2.30871659 1.86965834 1.95289044 2.63443584
2.11354552 2.51765264 2.53919371 2.43849028 2.1180776 2.04398795
1.96939308 1.87964454 1.87876465 2.12499272 2.08471739 1.9233498
1.73926235 2.21122425 1.57161827 1.59891242 1.9310966 0.89939253] and Actual value is [
3.035, 2.21978, 2.5332, 1.8850099999999999, 1.6158299999999999, 3.17728, 2.8079099999999999
97, 2.24743, 2.30919, 1.8698400000000002, 1.95335, 2.6343, 2.1139900000000003, 2.51767, 2
.5394200000000002, 2.43872, 2.11773, 2.0438400000000003, 1.9696099999999999, 1.8799599999
99999, 1.87877, 2.12466, 2.08528, 1.92313, 1.7393299999999998, 2.21126, 1.5714, 1.59927,
1.9312900000000002, 0.89991]

Mean absolute error:- 0.00026892561526388193
Mean squared error:- 9.466090430209644e-08
Root mean squared error:- 0.00030767012253726626
r2 Score:- 0.999995413911384

At random state 192 the model performs very well
At random state 192
Training score is
0.999997042172778

Predicted value is [2.61959003 1.88532882 1.73804029 2.43244036 2.67774967 1.79314661
2.23232891 1.46183356 2.44846644 2.09978125 2.32136052 2.46562941
1.86427044 1.44420318 2.02495357 1.21363087 0.67146969 0.89944364
3.26043473 3.19108121 2.32307406 1.85106704 2.3716286 1.97553101
2.06384192 0.65459835 2.20793984 1.62257373 2.49209283 2.13138724] and Actual value is [
2.61955, 1.8850099999999999, 1.7379900000000001, 2.43209, 2.67782, 1.79293, 2.2327, 1.461
81, 2.44876, 2.10017, 2.3214200000000003, 2.4657, 1.86399, 1.44395, 2.0251799999999998, 1
.21305, 0.67108, 0.89991, 3.26001, 3.191309999999996, 2.32323, 1.851, 2.3711900000000004
, 1.9757, 2.06367, 0.6542899999999999, 2.20857, 1.62215, 2.4920400000000003, 2.1309]

Mean absolute error:- 0.00026695929132121156
Mean squared error:- 9.964084353731057e-08
Root mean squared error:- 0.00031565937897884574
r2 Score:- 0.9999997396146179

At random state 193 the model performs very well
At random state 193
Training score is
0.999997507154759

Predicted value is [1.87880978 2.11356876 2.24186863 1.68158934 2.26418783 1.95248928
2.45182025 2.11816817 1.46178953 2.24708902 1.24120881 1.62259929
2.75457304 2.89321693 1.42787505 2.50956608 1.68431946 1.87659121
1.9311495 1.88498861 1.73834115 1.95074612 1.96966937 2.43858963
0.9985257 1.58829719 2.44222922 1.92343054 1.88524299 1.97543298] and Actual value is [
1.87877, 2.1139900000000003, 2.24173, 1.68135, 2.26425, 1.9521, 2.451759999999997, 2.117
73, 1.46181, 2.24743, 1.24074, 1.62215, 2.75414, 2.89319, 1.42766, 2.51011, 1.68435, 1.87
63400000000001, 1.9312900000000002, 1.885409999999998, 1.73797, 1.95071, 1.96994000000000
002, 2.43872, 0.99895, 1.58782, 2.44191, 1.92313, 1.885009999999999, 1.9757]

Mean absolute error:- 0.00026535016549418994
Mean squared error:- 9.638048169276502e-08
Root mean squared error:- 0.0003104520602166541
r2 Score:- 0.9999994505202042

At random state 194 the model performs very well
At random state 194
Training score is
0.999999726176482

Predicted value is [1.94272587 1.26503358 1.85110088 3.08886837 2.46558769 2.41454316
2.05103083 2.8073548 2.12510236 2.51750743 1.84414746 2.51769181
2.84827512 3.26046372 2.20794689 2.67616533 1.78522382 1.38093859
2.46515674 1.63810078 3.19111925 2.4469011 3.05115296 1.73833089
1.88959478 2.1181185 1.96973339 2.00083058 1.95843325 2.12381829] and Actual value is [
1.942959999999998, 1.26462, 1.851, 3.08854, 2.4657, 2.4148400000000003, 2.05125, 2.80790
99999999997, 2.12466, 2.517379999999997, 1.84408, 2.51767, 2.84848, 3.26001, 2.20857, 2.
67585, 1.78555, 1.38079, 2.465309999999997, 1.63794, 3.191309999999996, 2.4464900000000
003, 3.05137, 1.73797, 1.889309999999998, 2.11773, 1.9699400000000002, 2.00073, 1.95812,
2.12367]

Mean absolute error:- 0.00026423957304830086
Mean squared error:- 9.062886997468708e-08
Root mean squared error:- 0.0003010462920792865
r2 Score:- 0.999999653513723

At random state 195 the model performs very well
At random state 195
Training score is
0.9999997244355546

Predicted value is [2.86704557 2.00074126 0.99839971 2.24705203 1.73797741 2.45186303
1.68150627 1.62256905 1.86426198 2.45361411 1.87876204 1.68431465
2.24710482 1.94268138 2.79882048 2.12379516 2.11555547 2.49199777
2.30870592 2.0440456 3.1071543 1.41710642 1.86611001 2.4385082
3.26047748 2.83601068 1.24120069 1.88499857 1.95294568 2.22002855] and Actual value is [
2.86712, 2.00073, 0.99895, 2.24743, 1.7379900000000001, 2.451759999999997, 1.68135, 1.62
215, 1.86399, 2.453729999999997, 1.87877, 1.68435, 2.24729, 1.942959999999998, 2.79832,
2.12367, 2.1156900000000003, 2.4920400000000003, 2.30919, 2.0438400000000003, 3.10712, 1.
41723, 1.86565, 2.43872, 3.26001, 2.8360000000000003, 1.24074, 1.885409999999998, 1.9533
5, 2.21978]

Mean absolute error:- 0.00023082667247777597
Mean squared error:- 8.412477474744365e-08
Root mean squared error:- 0.00029004271193643815
r2 Score:- 0.9999996831790009

At random state 196 the model performs very well
At random state 196
Training score is
0.9999997303099148

Predicted value is [2.6777675 1.73924939 3.08882938 2.09973301 1.57032367 1.88521905
1.34732163 2.46516432 1.93109813 1.38091481 2.10999113 3.10709011
1.86426558 2.4920146 1.84411437 1.94268658 2.23232503 2.45364092
1.95594472 2.61953075 1.7192452 2.24711404 2.32306419 1.26497323
1.80034429 1.88501265 2.51749638 2.12374292 1.61621626 1.63325373] and Actual value is [
2.67782, 1.739329999999998, 3.08854, 2.10017, 1.57059, 1.885009999999999, 1.34759, 2.46
5309999999997, 1.9312900000000002, 1.38079, 2.11032, 3.10712, 1.86399, 2.492040000000000
3, 1.84408, 1.942959999999998, 2.2327, 2.453729999999997, 1.9563700000000002, 2.61955,
1.719559999999998, 2.24743, 2.32323, 1.26462, 1.801009999999998, 1.885409999999998, 2.
517379999999997, 2.12367, 1.615829999999999, 1.633279999999998]

```
Mean absolute error:- 0.00022521345035135068
Mean squared error:- 7.521932730399297e-08
Root mean squared error:- 0.00027426142146498285
r2 Score:- 0.9999996473778571
*****
```

At random state 197 the model performs very well
At random state 197
Training score is
0.999997033437314

```
Predicted value is [1.94937913 1.75330254 2.51750881 2.67775707 2.06391951 2.86705504
2.53338786 2.20800951 3.17757201 1.87875322 0.98167373 2.44686169
1.78523033 2.79066924 1.57165712 2.11557729 1.83340423 2.43247281
2.32377787 2.02500136 1.93109875 2.61954954 1.42783287 3.60184743
2.47495662 2.13139667 1.71928203 3.19110936 2.26646933 1.8599793 ] and Actual value is [
1.9493900000000002, 1.7536, 2.5173799999999997, 2.67782, 2.06367, 2.86712, 2.5332, 2.2085
7, 3.17728, 1.87877, 0.98195, 2.4464900000000003, 1.78555, 2.79094, 1.5714, 2.11569000000
00003, 1.83302, 2.43209, 2.32407, 2.02517999999998, 1.9312900000000002, 2.61955, 1.4276
6, 3.6021400000000003, 2.4748900000000003, 2.1309, 1.7195599999999998, 3.19130999999999996
, 2.26646, 1.8604]
```

```
Mean absolute error:- 0.00022822612945761674
Mean squared error:- 7.295393911088648e-08
Root mean squared error:- 0.0002700998687724348
r2 Score:- 0.999997596490567
*****
```

At random state 198 the model performs very well
At random state 198
Training score is
0.999997227346129

```
Predicted value is [1.38096836 2.26424776 1.92341622 2.05108289 1.68431356 2.27413624
1.24114036 1.62257755 3.08887512 1.95072921 2.4324994 2.83599123
1.64835264 2.12377179 2.49205809 2.76617962 0.899413 2.86712972
1.95851756 2.24711529 2.37158497 1.79314607 1.71928732 3.19113079
2.51752038 2.48657462 2.11819316 1.5985602 2.02488953 2.12509654 ] and Actual value is [
1.38079, 2.26425, 1.92313, 2.05125, 1.68435, 2.27394, 1.24074, 1.62215, 3.08854, 1.95071,
2.43209, 2.8360000000000003, 1.6488, 2.12367, 2.4920400000000003, 2.76579, 0.89991, 2.867
12, 1.95812, 2.24743, 2.371190000000004, 1.79293, 1.7195599999999998, 3.1913099999999996
, 2.5173799999999997, 2.48676, 2.11773, 1.598879999999999, 2.025, 2.12466]
```

```
Mean absolute error:- 0.00024538447905000373
Mean squared error:- 8.515221948394703e-08
Root mean squared error:- 0.0002918085322329473
r2 Score:- 0.999996936810563
*****
```

At random state 199 the model performs very well
At random state 199
Training score is
0.999997070317439

```
Predicted value is [0.99846676 1.71920998 2.49195485 2.24707898 3.10705245 1.93120554
1.85997689 1.94929242 3.60178844 2.1250426 2.79081315 3.03481824
1.61624174 1.46168856 1.63810713 2.11002542 1.69489246 1.59896404
2.11349593 2.47496629 2.32130385 3.05117487 2.06399495 1.99173483
1.26503755 2.86688803 1.21365339 1.95595881 1.83347601 2.12375206 ] and Actual value is [
0.99895, 1.7195599999999998, 2.4920400000000003, 2.24729, 3.10712, 1.9312900000000002, 1.
8604, 1.9493900000000002, 3.6021400000000003, 2.12466, 2.79094, 3.035, 1.6158299999999999
, 1.46181, 1.63794, 2.11032, 1.6944, 1.59927, 2.1139900000000003, 2.4748900000000003, 2.3
214200000000003, 3.05137, 2.06367, 1.991720000000002, 1.26462, 2.86712, 1.21305, 1.95637
00000000002, 1.83302, 2.12367]
```

```
Mean absolute error:- 0.00026872591607462283
Mean squared error:- 9.818544694910225e-08
Root mean squared error:- 0.0003133455711336962
r2 Score:- 0.999997274077527
*****
```

At random state 200 the model performs very well
At random state 200
Training score is

0.9999996858615058
Predicted value is [1.26494323 1.75868073 2.83595213 2.84827803 1.63813203 1.71922481
2.63448567 1.80034249 1.85996578 1.24112894 1.59567636 2.49203066
2.12372509 2.21997758 0.8993741 3.60184499 2.7988344 2.237749
1.88955539 0.99838876 2.24708297 2.09028514 0.6714066 3.17763495
2.02493259 2.41449264 1.34733301 1.57161422 1.38099559 2.44676327] and Actual value is [
1.26462, 1.75873, 2.8360000000000003, 2.84848, 1.63794, 1.7195599999999998, 2.6343, 1.801
0099999999998, 1.8604, 1.24074, 1.59541, 2.492040000000003, 2.12367, 2.21978, 0.89991, 3
.6021400000000003, 2.79832, 2.23740999999997, 1.889309999999998, 0.99895, 2.24743, 2.0
906599999999997, 0.67108, 3.17728, 2.025179999999998, 2.4148400000000003, 1.34759, 1.571
4, 1.38079, 2.4464900000000003]

Mean absolute error:- 0.00029311558544994345
Mean squared error:- 1.0884941288229649e-07
Root mean squared error:- 0.0003299233439487065
r2 Score:- 0.999997634610843

At random state 201 the model performs very well
At random state 201
Training score is
0.999997261115277

Predicted value is [2.74279762 1.75335288 1.58828569 1.76145169 1.94937168 1.59577535
2.00080833 2.37158682 1.78523538 2.7661517 1.34731832 2.02498142
2.24714758 1.97548116 2.79881406 2.32308955 2.70214815 1.26498664
2.59440811 2.24712742 1.69481187 0.981748 1.93114953 2.67777729
1.46506881 1.86422971 1.73836007 1.94273098 1.86608248 1.44417856] and Actual value is [
2.74255, 1.7536, 1.58782, 1.76145, 1.9493900000000002, 1.59541, 2.00073, 2.37119000000000
04, 1.78555, 2.76579, 1.34759, 2.02517999999998, 2.24743, 1.9757, 2.79832, 2.32323, 2.7
0201, 1.26462, 2.5945, 2.24729, 1.6944, 0.98195, 1.9312900000000002, 2.67782, 1.46494, 1.
86399, 1.73797, 1.942959999999998, 1.86565, 1.44395]

Mean absolute error:- 0.00024360899437125827
Mean squared error:- 7.698448612286614e-08
Root mean squared error:- 0.0002774607830358484
r2 Score:- 0.9999996573919573

At random state 202 the model performs very well
At random state 202
Training score is
0.999997290370812

Predicted value is [1.73928819 0.98165517 3.1775698 1.68153052 2.50958043 2.23770352
1.87969027 3.6018743 2.27411826 2.13141974 1.46172986 2.11556207
2.18862698 2.43250679 2.76615927 2.31971152 1.84414115 1.89858238
2.22004052 2.51768596 2.0639441 2.20146213 1.57167457 2.30870436
1.9524769 2.61955939 1.59576368 1.64833593 2.86708462 2.05110134] and Actual value is [
1.739329999999998, 0.98195, 3.17728, 1.68135, 2.51011, 2.23740999999997, 1.87995999999
9999, 3.6021400000000003, 2.27394, 2.1309, 1.46181, 2.1156900000000003, 2.18896, 2.43209
, 2.76579, 2.31945, 1.84408, 1.89894, 2.21978, 2.51767, 2.06367, 2.20173, 1.5714, 2.30919
, 1.9521, 2.61955, 1.59541, 1.6488, 2.86712, 2.05125]

Mean absolute error:- 0.0002612551600822743
Mean squared error:- 8.976907982733052e-08
Root mean squared error:- 0.00029961488585737944
r2 Score:- 0.9999996679909077

At random state 203 the model performs very well
At random state 203
Training score is
0.999997186896552

Predicted value is [1.41713841 2.43857609 1.38091951 1.63324854 2.11812188 2.12377335
1.73792191 2.50988162 2.79069035 2.02500597 2.53920494 1.96970324
1.87966638 2.67780018 2.61952187 2.47495993 2.22005306 1.76139808
3.17760258 1.95596025 2.76616592 2.10994868 2.44688047 2.46513919
2.32130458 2.24632317 2.85763232 1.88522584 2.188633 1.99177404] and Actual value is [
1.41723, 2.43872, 1.38079, 1.633279999999998, 2.11773, 2.12367, 1.737990000000001, 2.51
009, 2.79094, 2.02517999999998, 2.5394200000000002, 1.9699400000000002, 1.879959999999
999, 2.67782, 2.61955, 2.4748900000000003, 2.21978, 1.76145, 3.17728, 1.9563700000000002,
2.76579, 2.11032, 2.4464900000000003, 2.465309999999997, 2.3214200000000003, 2.246390000
0000003, 2.85737, 1.885009999999999, 2.18896, 1.9917200000000002]

Mean absolute error:- 0.00019541528600202824
Mean squared error:- 5.3315257682153124e-08
Root mean squared error:- 0.00023090096942662047
r2 Score:- 0.9999997013055477

At random state 204 the model performs very well
At random state 204
Training score is
0.999997127460719
Predicted value is [1.6380857 1.58832081 2.18864789 1.88531735 2.50985546 1.75331515
2.24715865 1.94270615 2.24714406 1.73792031 2.8073236 3.08888776
1.95593638 3.26049526 0.98165229 1.46176889 1.46502261 2.47500993
1.38091592 1.69478594 2.27416457 1.86973178 1.24120812 2.82360777
1.68436536 1.57167669 1.87665384 1.97550962 3.17761058 2.37161111] and Actual value is [
1.63794, 1.58782, 2.18896, 1.885009999999999, 2.51009, 1.7536, 2.24743, 1.942959999999999
98, 2.24729, 1.7379900000000001, 2.807909999999997, 3.08854, 1.9563700000000002, 3.26001
, 0.98195, 1.46181, 1.46494, 2.474890000000003, 1.38079, 1.6944, 2.27394, 1.8698400000000
0002, 1.24074, 2.82334, 1.68435, 1.5714, 1.8763400000000001, 1.9757, 3.17728, 2.371190000
000004]
Mean absolute error:- 0.00026830233896391796
Mean squared error:- 9.266842616128561e-08
Root mean squared error:- 0.0003044148914906851
r2 Score:- 0.9999997142885363

At random state 205 the model performs very well
At random state 205
Training score is
0.999997515064867
Predicted value is [2.45365529 1.86440153 3.05124685 2.43860449 1.83350463 1.84414561
1.9526525 2.76628698 1.69500998 1.68157334 2.32374984 1.24115388
2.50992955 2.00076774 1.34734694 2.11815673 1.949438 1.87659614
1.97552979 2.11008075 1.95071793 3.08894684 2.09987118 2.43243962
2.31992194 2.2420087 0.99846493 1.88529132 2.67626549 1.85993852] and Actual value is [
2.4537299999999997, 1.86399, 3.05137, 2.43872, 1.83302, 1.84408, 1.9521, 2.76579, 1.6944,
1.68135, 2.32407, 1.24074, 2.51009, 2.00073, 1.34759, 2.11773, 1.9493900000000002, 1.8763
400000000001, 1.9757, 2.11032, 1.95071, 3.08854, 2.10017, 2.43209, 2.31945, 2.24173, 0.99
895, 1.885009999999999, 2.67585, 1.8604]
Mean absolute error:- 0.0002976930170663176
Mean squared error:- 1.1635438928422857e-07
Root mean squared error:- 0.0003411075919475094
r2 Score:- 0.9999994697856502

At random state 206 the model performs very well
At random state 206
Training score is
0.99999716885894
Predicted value is [2.74275792 2.63444897 2.1886534 0.65463318 2.50958417 1.24121985
1.73929482 2.20145536 1.79317836 1.95073151 3.19108742 1.97551722
2.53919662 3.17753916 1.21368173 2.89314608 3.05125819 1.63812732
2.11812675 2.04403036 1.80041143 2.70212825 2.23776166 1.85106753
1.73840448 2.30868851 1.88533193 2.83592428 2.44843158 2.232315] and Actual value is [
2.74255, 2.6343, 2.18896, 0.654289999999999, 2.51011, 1.24074, 1.739329999999998, 2.201
73, 1.79293, 1.95071, 3.191309999999996, 1.9757, 2.5394200000000002, 3.17728, 1.21305, 2
.89319, 3.05137, 1.63794, 2.11773, 2.043840000000003, 1.801009999999998, 2.70201, 2.237
4099999999997, 1.851, 1.73797, 2.30919, 1.885009999999999, 2.8360000000000003, 2.44876,
2.2327]
Mean absolute error:- 0.000274162312232773
Mean squared error:- 1.0237448085024661e-07
Root mean squared error:- 0.00031996012384396687
r2 Score:- 0.9999997011790962

At random state 207 the model performs very well
At random state 207
Training score is

0.9999997304150129

Predicted value is [2.3715638 1.68433837 1.42786874 2.20789249 1.76141701 2.47497701
2.2323561 1.85109482 2.27548877 1.26502306 2.53923278 2.50959749
1.86611257 2.67779213 3.0511768 2.11562009 1.57163382 2.21126771
2.32307883 2.44217107 1.34735295 1.84414677 1.92342249 1.58829576
2.05107985 1.99180961 1.9507611 0.99849226 2.8931982 2.61955176] and Actual value is [
2.3711900000000004, 1.68435, 1.42766, 2.20857, 1.76145, 2.4748900000000003, 2.2327, 1.851
, 2.27513, 1.26462, 2.5394200000000002, 2.51011, 1.86565, 2.67782, 3.05137, 2.11569000000
00003, 1.5714, 2.21126, 2.32323, 2.44191, 1.34759, 1.84408, 1.92313, 1.58782, 2.05125, 1.
9917200000000002, 1.95071, 0.99895, 2.89319, 2.61955]

Mean absolute error:- 0.00021833097062888088

Mean squared error:- 7.972330401859781e-08

Root mean squared error:- 0.00028235315478775477

r2 Score:- 0.9999996549478384

At random state 208 the model performs very well

At random state 208

Training score is

0.999999719546818

Predicted value is [2.00079608 2.79879771 1.38096045 2.89321587 1.83351678 2.02496535
1.97543717 2.12510912 1.6161808 2.43855893 1.69485619 1.42783541
2.83596013 0.99846848 2.50991417 1.87881405 2.4749863 2.18863209
2.12373405 2.44680744 2.46512974 2.51747508 1.59900238 3.10713102
2.27550599 1.93116374 1.84417772 1.75876907 2.61951763 1.59581781] and Actual value is [
2.00073, 2.79832, 1.38079, 2.89319, 1.83302, 2.0251799999999998, 1.9757, 2.12466, 1.61582
999999999999, 2.43872, 1.6944, 1.42766, 2.8360000000000003, 0.99895, 2.51009, 1.87877, 2.4
748900000000003, 2.18896, 2.12367, 2.4464900000000003, 2.4653099999999997, 2.517379999999
9997, 1.59927, 3.10712, 2.27513, 1.931290000000002, 1.84408, 1.75873, 2.61955, 1.59541]

Mean absolute error:- 0.00021623737012749222

Mean squared error:- 7.169418771309799e-08

Root mean squared error:- 0.00026775770336835876

r2 Score:- 0.9999997044056305

At random state 209 the model performs very well

At random state 209

Training score is

0.9999997204894656

Predicted value is [2.63441082 2.50984951 2.84823283 2.05111539 2.43857893 1.97542309
1.58832122 2.89316118 1.44423513 1.59585372 3.10711041 1.94275583
2.11000128 2.11815402 1.84416483 0.65450965 1.73795466 2.22005315
1.92344752 2.02487582 2.11558515 1.95850481 1.89862805 2.12513091
1.87659619 2.24710984 1.46175197 2.50954594 3.08879092 2.27414539] and Actual value is [
2.6343, 2.51009, 2.84848, 2.05125, 2.43872, 1.9757, 1.58782, 2.89319, 1.44395, 1.59541, 3
.10712, 1.9429599999999998, 2.11032, 2.11773, 1.84408, 0.6542899999999999, 1.737990000000
0001, 2.21978, 1.92313, 2.025, 2.115690000000003, 1.95812, 1.89894, 2.12466, 1.876340000
000001, 2.24743, 1.46181, 2.51011, 3.08854, 2.27394]

Mean absolute error:- 0.00024494683655914564

Mean squared error:- 8.066012863126714e-08

Root mean squared error:- 0.000284007268624004

r2 Score:- 0.9999996903530238

At random state 210 the model performs very well

At random state 210

Training score is

0.9999997323665869

Predicted value is [1.21361018 1.4441894 2.48665962 1.76145162 1.85998326 1.59858492
2.21998352 2.79882671 2.6777511 2.13136753 2.2014712 2.26646658
1.97547869 2.24711635 2.53339462 2.02494488 0.67141413 2.23233992
1.62255911 1.6842833 1.7533664 2.09029553 2.27408548 1.95294857
2.45186538 1.96941858 2.74279497 3.05128241 2.0997724 2.61952861] and Actual value is [
1.21305, 1.44395, 2.48676, 1.76145, 1.8604, 1.5988799999999999, 2.21978, 2.79832, 2.67782
, 2.1309, 2.20173, 2.26646, 1.9757, 2.24729, 2.5332, 2.0251799999999998, 0.67108, 2.2327,
1.62215, 1.68435, 1.7536, 2.0906599999999997, 2.27394, 1.95335, 2.4517599999999997, 1.969
6099999999999, 2.74255, 3.05137, 2.10017, 2.61955]

Mean absolute error:- 0.00024378369956464067

Mean squared error:- 8.198578379899727e-08
Root mean squared error:- 0.0002863315976258947
r2 Score:- 0.9999996608518706

At random state 211 the model performs very well
At random state 211
Training score is
0.9999997402509818
Predicted value is [2.09027745 1.84417223 2.79061802 2.31983924 2.76615236 2.32312675
1.75334404 1.59862101 2.05099881 2.44844094 2.70218352 2.85763857
1.94938989 1.57174789 1.26503177 1.42791532 1.88503316 1.58833333
1.41714291 1.8787773 2.13144364 2.06395954 2.23241313 2.12384236
1.6226416 1.9584763 1.88958811 0.65452732 2.37158702 1.86613666] and Actual value is [
2.0906599999999997, 1.84408, 2.79094, 2.31945, 2.76579, 2.32323, 1.7536, 1.5988799999999999
99, 2.05125, 2.44876, 2.70201, 2.85737, 1.9493900000000002, 1.5714, 1.26462, 1.42766, 1.8
854099999999998, 1.58782, 1.41723, 1.87877, 2.1309, 2.06367, 2.2327, 2.12367, 1.62215, 1.
95812, 1.889309999999998, 0.6542899999999999, 2.3711900000000004, 1.86565]
Mean absolute error:- 0.00029059892564355555
Mean squared error:- 1.0362608240948479e-07
Root mean squared error:- 0.0003219100532904879
r2 Score:- 0.9999995494700468

At random state 212 the model performs very well
At random state 212
Training score is
0.9999997092867823
Predicted value is [2.50989468 2.45189561 2.20148431 1.46175396 1.76139565 1.57032402
2.32308761 1.88499527 1.59895696 2.13141751 1.58829148 2.85765815
2.63443304 2.53342583 2.80736426 2.44844072 2.67618059 2.22002695
1.95297533 1.95070912 2.11560808 2.86705866 3.107139 1.38093859
2.4422079 2.74279547 2.47498342 0.98166387 2.27537348 3.10723877] and Actual value is [
2.51009, 2.4517599999999997, 2.20173, 1.46181, 1.76145, 1.57059, 2.32323, 1.8854099999999999
998, 1.59927, 2.1309, 1.58782, 2.85737, 2.6343, 2.5332, 2.8079099999999997, 2.44876, 2.67
585, 2.21978, 1.95335, 1.95071, 2.1156900000000003, 2.86712, 3.10712, 1.38079, 2.44191, 2
.74255, 2.4748900000000003, 0.98195, 2.27513, 3.1070900000000004]
Mean absolute error:- 0.00023011071282197
Mean squared error:- 7.300729618360237e-08
Root mean squared error:- 0.00027019862357828984
r2 Score:- 0.9999997364291212

At random state 213 the model performs very well
At random state 213
Training score is
0.999999712524171
Predicted value is [3.17758695 2.10998359 2.53343862 2.80742287 0.89941588 1.88531716
1.38092741 2.00083541 2.11814563 2.89328345 2.09024653 1.69488859
1.85109669 0.67142496 1.84410517 2.44685336 2.43245237 1.46505768
2.26649802 2.12377098 1.73832931 1.41718688 1.96948921 1.95256717
2.20793657 2.49206073 2.02486523 1.86003858 0.65451319 2.75458968] and Actual value is [
3.17728, 2.11032, 2.5332, 2.8079099999999997, 0.89991, 1.8850099999999999, 1.38079, 2.000
73, 2.11773, 2.89319, 2.0906599999999997, 1.6944, 1.851, 0.67108, 1.84408, 2.4464900000000
003, 2.43209, 1.46494, 2.26646, 2.12367, 1.73797, 1.41723, 1.9696099999999999, 1.9521, 2
.20857, 2.4920400000000003, 2.025, 1.8604, 0.6542899999999999, 2.75414]
Mean absolute error:- 0.00026957280780029274
Mean squared error:- 1.0151215559686834e-07
Root mean squared error:- 0.00031860972301056404
r2 Score:- 0.9999997105567411

At random state 214 the model performs very well
At random state 214
Training score is
0.9999997429509406
Predicted value is [2.79883622 2.000779 2.1135145 2.24713855 3.26050167 2.76613531
1.24119173 1.95841514 2.09980125 1.26498832 2.85767579 2.51761711
2.51751299 2.74280798 2.83601948 1.63316953 2.22002816 1.78521473]

1.9529674 1.73928389 1.94269077 1.71929154 2.80737781 2.4468844
1.7533357 1.73793855 2.0249937 1.89856676 1.96942127 2.1886673] and Actual value is [
2.79832, 2.00073, 2.1139900000000003, 2.24729, 3.26001, 2.76579, 1.24074, 1.95812, 2.1001
7, 1.26462, 2.85737, 2.51767, 2.5173799999999997, 2.74255, 2.8360000000000003, 1.63327999
99999998, 2.21978, 1.78555, 1.95335, 1.7393299999999998, 1.9429599999999998, 1.7195599999
999998, 2.8079099999999997, 2.4464900000000003, 1.7536, 1.7379900000000001, 2.0251799999
9998, 1.89894, 1.9696099999999999, 2.18896]

Mean absolute error:- 0.00027419396994707854
Mean squared error:- 9.694859897704658e-08
Root mean squared error:- 0.00031136569974396115
r2 Score:- 0.999999590213455

At random state 215 the model performs very well

At random state 215

Training score is

0.999999730516097

Predicted value is [2.30867779 2.70215044 1.76135122 1.86972967 2.51755597 2.13140795
1.68431026 0.89938185 2.49209838 2.4468563 1.96976447 1.6483745
2.37161727 2.02483818 1.93105067 2.80735198 2.48656025 2.24630433
2.86707361 2.08478343 2.26428302 2.44220593 2.41453605 2.20146708
2.53341215 1.73791818 0.67135209 2.00078773 3.08885872 1.87966392] and Actual value is [
2.30919, 2.70201, 1.76145, 1.8698400000000002, 2.5173799999999997, 2.1309, 1.68435, 0.899
91, 2.4920400000000003, 2.4464900000000003, 1.9699400000000002, 1.6488, 2.3711900000000000
4, 2.025, 1.9312900000000002, 2.8079099999999997, 2.48676, 2.2463900000000003, 2.86712, 2
.08528, 2.26425, 2.44191, 2.4148400000000003, 2.20173, 2.5332, 1.7379900000000001, 0.6710
8, 2.00073, 3.08854, 1.8799599999999999]

Mean absolute error:- 0.0002492836477952065
Mean squared error:- 8.877633070653844e-08
Root mean squared error:- 0.00029795357139416614
r2 Score:- 0.9999996585630061

At random state 216 the model performs very well

At random state 216

Training score is

0.9999997144809962

Predicted value is [2.82370552 2.09981273 1.64836259 1.87655312 1.88957925 1.63807397
3.10735727 2.84833614 2.26422716 1.58824134 2.44686596 1.46503438
1.46166994 1.99178933 2.85769853 1.71922261 1.42782282 1.94931302
0.89936344 2.50991844 2.74285992 0.99838131 2.13138735 3.08891645
2.48660736 2.41453849 2.75461521 1.68152504 1.57162327 2.79881607] and Actual value is [
2.82334, 2.10017, 1.6488, 1.8763400000000001, 1.8893099999999998, 1.63794, 3.107090000000
0004, 2.84848, 2.26425, 1.58782, 2.4464900000000003, 1.46494, 1.46181, 1.9917200000000002
, 2.85737, 1.7195599999999998, 1.42766, 1.9493900000000002, 0.89991, 2.51009, 2.74255, 0.
99895, 2.1309, 3.08854, 2.48676, 2.4148400000000003, 2.75414, 1.68135, 1.5714, 2.79832]

Mean absolute error:- 0.00028338609354200037
Mean squared error:- 1.0269826565554439e-07
Root mean squared error:- 0.00032046570121550355
r2 Score:- 0.9999997163947626

At random state 217 the model performs very well

At random state 217

Training score is

0.9999997141297942

Predicted value is [2.26645607 2.67774384 2.43245951 3.19111853 1.96942124 1.73797835
3.6018348 2.11351948 2.51749025 2.32305754 2.53338659 2.7988554
1.88499815 2.44219724 2.44844629 2.27541314 2.53917508 0.89938599
1.94276361 1.79315774 2.11555524 1.44416782 2.27409322 1.87661454
1.85105923 2.89328191 2.09978796 2.00077952 1.84410484 2.18864081] and Actual value is [
2.26646, 2.67782, 2.43209, 3.191309999999996, 1.969609999999999, 1.7379900000000001, 3.
6021400000000003, 2.1139900000000003, 2.5173799999999997, 2.32323, 2.5332, 2.79832, 1.885
4099999999998, 2.44191, 2.44876, 2.27513, 2.5394200000000002, 0.89991, 1.9429599999999998
, 1.79293, 2.1156900000000003, 1.44395, 2.27394, 1.8763400000000001, 1.851, 2.89319, 2.10
017, 2.00073, 1.84408, 2.18896]

Mean absolute error:- 0.00022726543004415457
Mean squared error:- 7.252374637518416e-08

Root mean squared error:- 0.0002693023326582675

r2 Score:- 0.9999997207839545

At random state 218 the model performs very well

At random state 218

Training score is

0.9999997019649272

Predicted value is [1.59857916 1.86969806 2.63445807 1.95076029 1.5703246 1.46510282

1.84414708 2.8932023 2.06385524 2.09975461 1.73926858 1.87965666

1.63327389 1.73830377 1.8599859 2.59435969 2.02492392 2.02481566

0.65450594 3.19107209 2.5095776 1.96939992 1.95292403 2.05112391

1.61620107 2.51765726 0.67143911 1.93109305 1.83343041 2.44677109] and Actual value is [

1.5988799999999999, 1.8698400000000002, 2.6343, 1.95071, 1.57059, 1.46494, 1.84408, 2.893

19, 2.06367, 2.10017, 1.7393299999999998, 1.8799599999999999, 1.6332799999999998, 1.73797

, 1.8604, 2.5945, 2.0251799999999998, 2.025, 0.6542899999999999, 3.1913099999999996, 2.51

011, 1.9696099999999999, 1.95335, 2.05125, 1.6158299999999999, 2.51767, 0.67108, 1.931290

0000000002, 1.83302, 2.4464900000000003]

Mean absolute error:- 0.00022795345593520737

Mean squared error:- 7.085998739288777e-08

Root mean squared error:- 0.00026619539326007836

r2 Score:- 0.9999997473278217

At random state 219 the model performs very well

At random state 219

Training score is

0.9999997140181144

Predicted value is [1.95071882 2.02500041 1.75872632 2.79065703 1.63324936 2.75456584

0.9817155 2.26421819 1.44418096 2.18864951 1.71927307 2.89322439

2.44846519 1.73927505 2.10997307 2.53920803 2.86704039 2.24712538

1.58827285 2.46559244 2.85762882 2.24178917 2.74278138 2.23768138

2.50986043 2.67615546 2.09024053 2.24631518 2.21124729 1.86428327] and Actual value is [

1.95071, 2.0251799999999998, 1.75873, 2.79094, 1.6332799999999998, 2.75414, 0.98195, 2.26

425, 1.44395, 2.18896, 1.7195599999999998, 2.89319, 2.44876, 1.7393299999999998, 2.11032,

2.5394200000000002, 2.86712, 2.24729, 1.58782, 2.4657, 2.85737, 2.24173, 2.74255, 2.23740

9999999997, 2.51009, 2.67585, 2.090659999999997, 2.2463900000000003, 2.21126, 1.86399]

Mean absolute error:- 0.00019766522710033355

Mean squared error:- 5.668845154509482e-08

Root mean squared error:- 0.00023809336728496832

r2 Score:- 0.9999997385548619

At random state 220 the model performs very well

At random state 220

Training score is

0.9999997330047167

Predicted value is [1.80030633 1.58824241 2.45192701 2.3716317 1.88950674 0.89934867

2.53917075 2.0974691 1.9493685 2.46521495 2.24710737 1.61616978

2.2377389 1.59854278 1.68426027 2.53341834 1.85996232 3.60183298

1.73922752 2.13136155 2.45362219 1.87879845 1.73832642 3.10707787

2.090224 2.20146169 0.65449903 2.11008773 1.6484083 1.95249465] and Actual value is [

1.801009999999998, 1.58782, 2.451759999999997, 2.371190000000004, 1.889309999999998,

0.89991, 2.5394200000000002, 2.10017, 1.949390000000002, 2.4653099999999997, 2.24729, 1.

6158299999999999, 2.2374099999999997, 1.5988799999999999, 1.68435, 2.5332, 1.8604, 3.6021

400000000003, 1.739329999999998, 2.1309, 2.4537299999999997, 1.87877, 1.73797, 3.10712,

2.090659999999997, 2.20173, 0.6542899999999999, 2.11032, 1.6488, 1.9521]

Mean absolute error:- 0.00028512853117144504

Mean squared error:- 1.082312775575827e-07

Root mean squared error:- 0.00032898522391983304

r2 Score:- 0.9999996487704981

At random state 221 the model performs very well

At random state 221

Training score is

0.9999997072908866

Predicted value is [2.63444687 2.47498925 1.3809131 1.89858824 2.46555775 2.44689233

3.17760529 1.24118024 1.73833919 3.05126785 1.87968306 2.18862566

1.26496358 2.44219289 1.85107719 1.97544109 2.75460073 1.99173828
1.75330597 1.6332048 2.0250024 2.50990512 2.61954565 1.88498286
2.86703339 1.3472936 0.98165254 1.85999329 2.82363336 2.22005209] and Actual value is [
2.6343, 2.4748900000000003, 1.38079, 1.89894, 2.4657, 2.4464900000000003, 3.17728, 1.2407
4, 1.73797, 3.05137, 1.8799599999999999, 2.18896, 1.26462, 2.44191, 1.851, 1.9757, 2.7541
4, 1.9917200000000002, 1.7536, 1.6332799999999998, 2.0251799999999998, 2.51009, 2.61955,
1.8854099999999998, 2.86712, 1.34759, 0.98195, 1.8604, 2.82334, 2.21978]

Mean absolute error:- 0.00024570375102409556
Mean squared error:- 7.735204926804715e-08
Root mean squared error:- 0.0002781223638401758
r2 Score:- 0.9999997526836507

At random state 222 the model performs very well

At random state 222

Training score is

0.9999997154018746

Predicted value is [2.70218533 1.80036885 1.86432961 2.00075667 2.11003453 2.50992301
3.05126755 2.46514282 0.89935456 1.73797886 2.41450212 2.85765445
1.95252315 1.41714091 2.89328603 1.4617196 2.3213094 3.17765024
2.04400527 2.06388535 2.32309137 1.88501383 2.49199809 2.23767829
2.51747366 1.24109663 1.59855093 1.96937898 2.21120032 2.76618518] and Actual value is [
2.70201, 1.8010099999999998, 1.86399, 2.00073, 2.11032, 2.51009, 3.05137, 2.46530999999999
997, 0.89991, 1.7379900000000001, 2.4148400000000003, 2.85737, 1.9521, 1.41723, 2.89319,
1.46181, 2.3214200000000003, 3.17728, 2.0438400000000003, 2.06367, 2.32323, 1.88540999999
9998, 2.4920400000000003, 2.2374099999999997, 2.5173799999999997, 1.24074, 1.59887999999
9999, 1.9696099999999999, 2.21126, 2.76579]

Mean absolute error:- 0.00023213799299682075
Mean squared error:- 7.813454644401536e-08
Root mean squared error:- 0.0002795255738640301
r2 Score:- 0.9999997235759086

At random state 223 the model performs very well

At random state 223

Training score is

0.9999997265173427

Predicted value is [2.79065857 2.09977485 2.13135474 1.2649973 1.75335638 2.32375954
1.64844567 2.4145109 1.69485364 2.24181917 2.4656145 1.87877699
2.27410981 1.61623732 2.70216612 2.53342097 0.67146513 1.57164125
2.11561641 2.74278995 2.6777726 1.84412902 1.89856789 1.57037931
1.93111088 3.08886257 1.95252643 3.0511761 2.08476528 1.94275908] and Actual value is [
2.79094, 2.10017, 2.1309, 1.26462, 1.7536, 2.32407, 1.6488, 2.4148400000000003, 1.6944, 2
.24173, 2.4657, 1.87877, 2.27394, 1.6158299999999999, 2.70201, 2.5332, 0.67108, 1.5714, 2
.1156900000000003, 2.74255, 2.67782, 1.84408, 1.89894, 1.57059, 1.9312900000000002, 3.088
54, 1.9521, 3.05137, 2.08528, 1.9429599999999998]

Mean absolute error:- 0.0002597475539082961
Mean squared error:- 8.603427766996007e-08
Root mean squared error:- 0.0002933160030921601
r2 Score:- 0.9999996868855695

At random state 224 the model performs very well

At random state 224

Training score is

0.9999996864281844

Predicted value is [1.96969594 2.41445635 1.95289402 1.6842285 1.38100261 1.73804013
1.95248574 2.18867253 2.82364306 3.26039631 2.23770562 1.21359411
3.60177915 2.24623424 2.61946913 1.85997115 3.19105234 1.85108216
2.11552935 0.89938493 2.83590807 2.43845376 1.57160164 1.87962762
2.7907318 1.41720238 3.03481129 2.08469031 2.24705369 3.10708596] and Actual value is [
1.9699400000000002, 2.4148400000000003, 1.95335, 1.68435, 1.38079, 1.7379900000000001, 1.
9521, 2.18896, 2.82334, 3.26001, 2.2374099999999997, 1.21305, 3.6021400000000003, 2.24639
000000000003, 2.61955, 1.8604, 3.1913099999999996, 1.851, 2.1156900000000003, 0.89991, 2.8
3600000000000003, 2.43872, 1.5714, 1.8799599999999999, 2.79094, 1.41723, 3.035, 2.08528, 2
.24743, 3.10712]

Mean absolute error:- 0.00026796181708961623
Mean squared error:- 9.511248486452557e-08

Root mean squared error:- 0.0003084031207113922

r2 Score:- 0.9999997692368756

At random state 225 the model performs very well

At random state 225

Training score is

0.9999997318127085

Predicted value is [1.63812496 2.02479212 2.45192213 2.09023558 1.7533273 2.32374661

2.80741972 1.34730705 2.59437368 2.20789562 2.2462648 2.44845132

2.85761652 3.17760782 1.75863965 2.89326997 1.87663529 2.02493236

2.45365046 1.79307656 2.76612646 1.93106287 1.59893575 1.8850205

0.89933173 1.69480139 1.68426037 1.24107992 2.83594592 2.3716152] and Actual value is [

1.63794, 2.025, 2.4517599999999997, 2.0906599999999997, 1.7536, 2.32407, 2.807909999999999

97, 1.34759, 2.5945, 2.20857, 2.2463900000000003, 2.44876, 2.85737, 3.17728, 1.75873, 2.8

9319, 1.8763400000000001, 2.0251799999999998, 2.4537299999999997, 1.79293, 2.76579, 1.931

29000000000002, 1.59927, 1.8854099999999998, 0.89991, 1.6944, 1.68435, 1.24074, 2.83600000

00000003, 2.3711900000000004]

Mean absolute error:- 0.00027576019782945177

Mean squared error:- 9.850273762293022e-08

Root mean squared error:- 0.0003138514578951804

r2 Score:- 0.9999996571334825

At random state 226 the model performs very well

At random state 226

Training score is

0.999999738920601

Predicted value is [2.22003593 2.46511717 1.88954821 1.38101242 1.99175805 2.05102667

1.73830449 1.79316955 2.27416156 2.2112678 2.32133222 2.43852303

2.76612364 3.1071578 2.80736835 2.24705519 1.85114014 2.49199988

2.50958481 1.61624275 2.85765319 1.93111933 2.74278885 2.48656157

2.13142593 2.44224917 2.04408694 1.6332281 2.099808 1.75876534] and Actual value is [

2.21978, 2.4653099999999997, 1.8893099999999998, 1.38079, 1.9917200000000002, 2.05125, 1.

73797, 1.79293, 2.27394, 2.21126, 2.3214200000000003, 2.43872, 2.76579, 3.10712, 2.807909

9999999997, 2.24743, 1.851, 2.4920400000000003, 2.51011, 1.6158299999999999, 2.85737, 1.9

3129000000000002, 2.74255, 2.48676, 2.1309, 2.44191, 2.0438400000000003, 1.6332799999999999

8, 2.10017, 1.75873]

Mean absolute error:- 0.00023724748527130431

Mean squared error:- 7.775140989718695e-08

Root mean squared error:- 0.00027883939803619387

r2 Score:- 0.9999995345364685

At random state 227 the model performs very well

At random state 227

Training score is

0.9999997487945487

Predicted value is [1.83345707 1.26497799 2.11812656 2.80746432 2.46556404 1.97545199

2.26418125 1.85110462 2.12507144 1.75332771 1.59859512 1.86430336

2.27409069 3.17758391 2.46511431 2.53338697 1.5990052 1.87965517

2.43854796 3.1073472 2.08478324 2.45365892 1.87874833 1.24117859

1.96938379 1.99180056 2.23234081 2.1135322 1.95252695 2.67618804] and Actual value is [

1.83302, 1.26462, 2.11773, 2.8079099999999997, 2.4657, 1.9757, 2.26425, 1.851, 2.12466, 1

.7536, 1.598879999999999, 1.86399, 2.27394, 3.17728, 2.4653099999999997, 2.5332, 1.59927

, 1.8799599999999999, 2.43872, 3.1070900000000004, 2.08528, 2.4537299999999997, 1.87877,

1.24074, 1.9696099999999999, 1.9917200000000002, 2.2327, 2.1139900000000003, 1.9521, 2.67

585]

Mean absolute error:- 0.00027431984028460923

Mean squared error:- 9.260315347715219e-08

Root mean squared error:- 0.0003043076625344031

r2 Score:- 0.9999995487262521

At random state 228 the model performs very well

At random state 228

Training score is

0.9999997575487831

Predicted value is [2.82362906 2.45185031 2.09029266 2.44694418 2.43251198 1.88500594

1.62262302 2.4749564 2.26644382 1.6380884 2.06395275 1.83340324
1.86612453 1.58832678 1.57171772 2.2112853 1.95599234 2.30872729
2.486597 2.46556892 2.6344222 2.27419159 2.53340661 2.43860125
1.73791221 2.05105199 1.85113495 2.75461629 2.27543533 1.4617599] and Actual value is [
2.82334, 2.4517599999999997, 2.0906599999999997, 2.4464900000000003, 2.43209, 1.885409999
9999998, 1.62215, 2.4748900000000003, 2.26646, 1.63794, 2.06367, 1.83302, 1.86565, 1.5878
2, 1.5714, 2.21126, 1.9563700000000002, 2.30919, 2.48676, 2.4657, 2.6343, 2.27394, 2.5332
, 2.43872, 1.7379900000000001, 2.05125, 1.851, 2.75414, 2.27513, 1.46181]

Mean absolute error:- 0.0002599106166925639

Mean squared error:- 9.188909970856529e-08

Root mean squared error:- 0.00030313214891951876

r2 Score:- 0.9999993385995284

At random state 229 the model performs very well

At random state 229

Training score is

0.9999997487432474

Predicted value is [2.11817745 0.98170534 1.88534755 2.41453602 2.67616697 2.50958132
1.76138032 2.20150981 1.44421047 1.87661079 1.71927075 1.34730069
1.58830444 1.94937348 1.93112341 2.84825428 1.92342013 1.78522047
2.06392375 2.45187708 2.46517908 1.95852771 2.26426751 2.23774239
2.37161656 1.84415863 2.74277369 1.61616155 2.75458547 2.1251071] and Actual value is [
2.11773, 0.98195, 1.8850099999999999, 2.4148400000000003, 2.67585, 2.51011, 1.76145, 2.20
173, 1.44395, 1.8763400000000001, 1.7195999999999998, 1.34759, 1.58782, 1.9493900000000000
2, 1.9312900000000002, 2.84848, 1.92313, 1.78555, 2.06367, 2.4517599999999997, 2.46530999
99999997, 1.95812, 2.26425, 2.237409999999997, 2.3711900000000004, 1.84408, 2.74255, 1.6
158299999999999, 2.75414, 2.12466]

Mean absolute error:- 0.00027680984434224807

Mean squared error:- 9.444632119612702e-08

Root mean squared error:- 0.0003073212019957735

r2 Score:- 0.9999995038894266

At random state 230 the model performs very well

At random state 230

Training score is

0.9999997399863253

Predicted value is [2.24628306 1.95249019 2.59438048 2.24708973 1.9585247 2.74279574
1.68155968 2.11358048 1.94939635 1.85113376 1.427914 2.13138889
1.57030783 2.46557531 1.87883809 2.11554525 2.67773379 1.38101465
1.79320795 2.67615868 1.64836469 2.49204418 2.43247602 2.44226278
2.08477022 1.59896098 2.8932579 2.2419249 2.86714787 1.89854618] and Actual value is [
2.2463900000000003, 1.9521, 2.5945, 2.24729, 1.95812, 2.74255, 1.68135, 2.113990000000000
3, 1.9493900000000002, 1.851, 1.42766, 2.1309, 1.57059, 2.4657, 1.87877, 2.115690000000000
03, 2.67782, 1.38079, 1.79293, 2.67585, 1.6488, 2.4920400000000003, 2.43209, 2.44191, 2.0
8528, 1.59927, 2.89319, 2.24173, 2.86712, 1.89894]

Mean absolute error:- 0.00023894506486132894

Mean squared error:- 7.811353425021867e-08

Root mean squared error:- 0.0002794879858781387

r2 Score:- 0.9999995555367972

At random state 231 the model performs very well

At random state 231

Training score is

0.9999997244067437

Predicted value is [1.88961411 2.76617918 1.89857103 2.75457917 2.05098803 1.93115734
0.98166964 1.68431907 2.20145307 2.85769237 1.24121681 1.86613637
2.5175964 0.99843832 3.08894399 2.82364243 2.02490562 2.67623708
2.44838341 2.09981183 1.95069484 1.41707819 1.61625952 1.87867545
1.99167734 2.46517861 1.42782343 1.73831612 2.80735274 1.86966293] and Actual value is [
1.889309999999998, 2.76579, 1.89894, 2.75414, 2.05125, 1.9312900000000002, 0.98195, 1.68
435, 2.20173, 2.85737, 1.24074, 1.86565, 2.51767, 0.99895, 3.08854, 2.82334, 2.025, 2.675
85, 2.44876, 2.10017, 1.95071, 1.41723, 1.615829999999999, 1.87877, 1.9917200000000002,
2.4653099999999997, 1.42766, 1.73797, 2.807909999999997, 1.8698400000000002]

Mean absolute error:- 0.0002795578872551441

Mean squared error:- 1.0194005751805638e-07

Root mean squared error:- 0.00031928053106642187

r2 Score:- 0.9999996658183133

At random state 232 the model performs very well

At random state 232

Training score is

0.9999997247267995

Predicted value is [2.11816821 2.37157395 2.4518711 3.60179806 1.95249978 1.89858303

1.8599256 2.13137982 1.88499831 2.1101725 1.24120816 2.82360245

1.59578639 2.45360347 2.50958067 2.06397168 0.67143121 1.59898845

1.78527356 2.24706759 1.4651073 0.65459309 2.09985377 2.32381215

1.87968001 1.83356545 1.88958785 3.05131989 2.79887765 2.85757212] and Actual value is [

2.11773, 2.3711900000000004, 2.4517599999999997, 3.6021400000000003, 1.9521, 1.89894, 1.8

604, 2.1309, 1.885409999999998, 2.11032, 1.24074, 2.82334, 1.59541, 2.4537299999999997,

2.51011, 2.06367, 0.67108, 1.59927, 1.78555, 2.24729, 1.46494, 0.6542899999999999, 2.1001

7, 2.32407, 1.8799599999999999, 1.83302, 1.889309999999998, 3.05137, 2.79832, 2.85737]

Mean absolute error:- 0.0003233041959061933

Mean squared error:- 1.2139008574580398e-07

Root mean squared error:- 0.0003484108002714669

r2 Score:- 0.999999683294576

At random state 233 the model performs very well

At random state 233

Training score is

0.9999997247382967

Predicted value is [1.87967085 1.73931032 0.65458297 1.24118366 1.96946963 1.61624362

1.87663671 2.08478605 2.11561719 2.27551787 1.69490639 2.13135832

1.88529992 2.4651792 2.46563203 3.1070845 1.95300134 1.86434777

2.12376411 2.539185 0.981847 1.86609625 2.50988574 2.11812621

3.19104523 1.89859839 2.24185866 2.67775653 1.59574627 2.76615552] and Actual value is [

1.8799599999999999, 1.739329999999998, 0.6542899999999999, 1.24074, 1.9696099999999999,

1.6158299999999999, 1.8763400000000001, 2.08528, 2.1156900000000003, 2.27513, 1.6944, 2.1

309, 1.8850099999999999, 2.4653099999999997, 2.4657, 3.10712, 1.95335, 1.86399, 2.12367,

2.5394200000000002, 0.98195, 1.86565, 2.51009, 2.11773, 3.191309999999996, 1.89894, 2.24

173, 2.67782, 1.59541, 2.76579]

Mean absolute error:- 0.00026750796215833835

Mean squared error:- 9.316332989726873e-08

Root mean squared error:- 0.00030522668608309585

r2 Score:- 0.9999996819607452

At random state 234 the model performs very well

At random state 234

Training score is

0.9999997540081249

Predicted value is [1.26507657 1.63808782 1.21368051 1.83344195 2.79880528 2.11351342

1.85103532 1.75874168 2.44842501 1.73835416 2.50959182 2.20793129

3.60179165 2.10993791 1.95592888 1.99177418 2.18863161 1.64839466

2.82365064 2.27543449 1.94272916 0.67146071 1.69483737 2.47501154

1.59864592 1.8661285 2.79083357 2.43854504 1.95840009 2.27411767] and Actual value is [

1.26462, 1.63794, 1.21305, 1.83302, 2.79832, 2.113990000000003, 1.851, 1.75873, 2.44876,

1.73797, 2.51011, 2.20857, 3.602140000000003, 2.11032, 1.956370000000002, 1.99172000000

00002, 2.18896, 1.6488, 2.82334, 2.27513, 1.942959999999998, 0.67108, 1.6944, 2.47489000

00000003, 1.5988799999999999, 1.86565, 2.79094, 2.43872, 1.95812, 2.27394]

Mean absolute error:- 0.000324618518924887

Mean squared error:- 1.3241268568952487e-07

Root mean squared error:- 0.00036388553926959625

r2 Score:- 0.999999567504813

At random state 235 the model performs very well

At random state 235

Training score is

0.9999997585141183

Predicted value is [2.13137254 2.04403672 1.26494767 2.47496673 2.23772247 1.57162799

2.20797426 2.41451075 2.02496085 1.68428031 2.84827571 2.08476673

1.61618527 2.44682162 2.26646847 1.8985689 2.46559726 2.44221765

1.59571584 1.95847066 3.08885157 2.24710674 0.89938802 1.86001265
2.11558106 2.76615518 2.02484647 1.95250513 1.73927176 2.67616994] and Actual value is [
2.1309, 2.0438400000000003, 1.26462, 2.4748900000000003, 2.2374099999999997, 1.5714, 2.20
857, 2.4148400000000003, 2.0251799999999998, 1.68435, 2.84848, 2.08528, 1.6158299999999999
9, 2.4464900000000003, 2.26646, 1.89894, 2.4657, 2.44191, 1.59541, 1.95812, 3.08854, 2.24
743, 0.89991, 1.8604, 2.1156900000000003, 2.76579, 2.025, 1.9521, 1.7393299999999998, 2.6
7585]

Mean absolute error:- 0.00028779863263902843
Mean squared error:- 1.0348897819492538e-07
Root mean squared error:- 0.00032169702857646256
r2 Score:- 0.9999995124358179

At random state 236 the model performs very well

At random state 236

Training score is

0.9999997262864486

Predicted value is [2.48654682 1.83348472 2.24706517 1.86423995 1.87885657 1.73804186
2.05115222 1.79318151 3.26039922 3.05126613 1.96970331 1.80039373
2.4144758 2.50953692 2.08474291 1.73928623 1.24116838 0.67145994
2.30871576 2.51769936 2.32301614 1.59577549 2.45363009 1.46170775
2.59436423 1.44424592 1.85114258 2.32132592 2.47492866 1.844189] and Actual value is [
2.48676, 1.83302, 2.24729, 1.86399, 1.87877, 1.7379900000000001, 2.05125, 1.79293, 3.2600
1, 3.05137, 1.9699400000000002, 1.8010099999999998, 2.4148400000000003, 2.51011, 2.08528,
1.7393299999999998, 1.24074, 0.67108, 2.30919, 2.51767, 2.32323, 1.59541, 2.4537299999999
997, 1.46181, 2.5945, 1.44395, 1.851, 2.3214200000000003, 2.4748900000000003, 1.84408]

Mean absolute error:- 0.00024713410178756425
Mean squared error:- 9.029658398545248e-08
Root mean squared error:- 0.00030049390008027196
r2 Score:- 0.9999996660166357

At random state 237 the model performs very well

At random state 237

Training score is

0.9999997100312613

Predicted value is [2.46560472 2.12373967 2.11559106 1.9694451 1.84410926 2.48654975
2.05106059 2.22002971 1.87875945 3.03480602 1.94273887 1.41716579
1.92338271 1.73831366 3.19104794 1.85109744 3.10731684 2.59436907
1.59857648 2.09023489 2.44845944 1.97548205 2.27547804 1.68153094
2.23231258 2.30871883 3.6018293 2.67614248 2.37157302 2.21121632] and Actual value is [
2.4657, 2.12367, 2.1156900000000003, 1.9696099999999999, 1.84408, 2.48676, 2.05125, 2.219
78, 1.87877, 3.035, 1.9429599999999998, 1.41723, 1.92313, 1.73797, 3.1913099999999996, 1.
851, 3.1070900000000004, 2.5945, 1.5988799999999999, 2.0906599999999997, 2.44876, 1.9757,
2.27513, 1.68135, 2.2327, 2.30919, 3.6021400000000003, 2.67585, 2.3711900000000004, 2.211
26]

Mean absolute error:- 0.00021918429937177
Mean squared error:- 6.270145241671269e-08
Root mean squared error:- 0.00025040258069099983
r2 Score:- 0.9999997368177994

At random state 238 the model performs very well

At random state 238

Training score is

0.9999996863709087

Predicted value is [2.43853372 2.00076856 1.95248571 3.60180992 1.42788657 2.83593512
1.88523887 2.5391731 1.63324021 2.8932325 2.20795312 1.93105111
1.88500344 1.57163495 1.95598975 1.44420512 2.4422025 2.63440679
3.10726503 1.87879705 1.89852731 2.31981697 2.02496192 2.45361767
0.65447794 0.99845006 2.80740143 1.97550291 3.26043866 2.84824214] and Actual value is [
2.43872, 2.00073, 1.9521, 3.6021400000000003, 1.42766, 2.8360000000000003, 1.88500999999
9999, 2.5394200000000002, 1.6332799999999998, 2.89319, 2.20857, 1.9312900000000002, 1.885
40999999999998, 1.5714, 1.9563700000000002, 1.44395, 2.44191, 2.6343, 3.1070900000000004,
1.87877, 1.89894, 2.31945, 2.0251799999999998, 2.4537299999999997, 0.6542899999999999, 0.
99895, 2.8079099999999997, 1.9757, 3.26001, 2.848481]

Mean absolute error:- 0.00025647671258682093
Mean squared error:- 8.83508591753447e-08

Root mean squared error:- 0.00029723872421901003

r2 Score:- 0.9999997879467979

At random state 239 the model performs very well

At random state 239

Training score is

0.9999997343576347

Predicted value is [2.05098685 2.32372767 2.09978779 1.88500265 2.80724221 1.80042957

2.83594473 0.98163064 1.59896452 2.06386728 1.7383687 1.46184931

1.87664354 1.88525516 3.60174798 2.44832971 2.11346584 3.05118106

2.50962519 1.24121071 2.48662868 2.44687385 1.96946147 2.3086396

3.26042105 3.03478039 2.47495663 2.3197713 1.87965796 1.46502979] and Actual value is [

2.05125, 2.32407, 2.10017, 1.8854099999999998, 2.8079099999999997, 1.8010099999999998, 2.

8360000000000003, 0.98195, 1.59927, 2.06367, 1.73797, 1.46181, 1.8763400000000001, 1.8850

099999999999, 3.6021400000000003, 2.44876, 2.1139900000000003, 3.05137, 2.51011, 1.24074,

2.48676, 2.4464900000000003, 1.9696099999999999, 2.30919, 3.26001, 3.035, 2.47489000000000

003, 2.31945, 1.8799599999999999, 1.46494]

Mean absolute error:- 0.0003207608237013678

Mean squared error:- 1.283654414284878e-07

Root mean squared error:- 0.00035828123231406887

r2 Score:- 0.9999996312403612

At random state 240 the model performs very well

At random state 240

Training score is

0.9999997226241042

Predicted value is [2.89327988 1.85112105 1.7379913 2.61953322 1.84416055 1.73831261

2.12372658 0.8993817 2.85766757 1.46178237 2.024946 1.64831064

1.83352374 2.24191278 1.97541233 2.21121555 1.42786516 2.79893503

2.27541909 2.26642495 2.74282713 1.38096858 2.50957046 2.83600447

2.24708395 2.2014866 2.44686107 2.53336965 3.26051221 2.27410995] and Actual value is [

2.89319, 1.851, 1.7379900000000001, 2.61955, 1.84408, 1.73797, 2.12367, 0.89991, 2.85737,

1.46181, 2.0251799999999998, 1.6488, 1.83302, 2.24173, 1.9757, 2.21126, 1.42766, 2.79832,

2.27513, 2.26646, 2.74255, 1.38079, 2.51011, 2.8360000000000003, 2.24743, 2.20173, 2.4464

900000000003, 2.5332, 3.26001, 2.27394]

Mean absolute error:- 0.00024168817667401162

Mean squared error:- 9.053870680396064e-08

Root mean squared error:- 0.00030089650513749844

r2 Score:- 0.9999996702366543

At random state 241 the model performs very well

At random state 241

Training score is

0.9999997415239469

Predicted value is [2.49206613 2.22003454 2.11002436 2.11350761 1.8852938 1.64841032

1.6381048 1.80039571 2.20144859 1.57034101 1.69483014 2.63445855

3.08888258 2.44682017 2.13135777 2.3716007 2.26651158 2.83597284

1.34729727 2.47503627 2.0007772 2.46521348 1.59894685 2.86700153

2.67620928 2.06388829 1.73800146 2.61956538 2.08476979 3.10710965] and Actual value is [

2.4920400000000003, 2.21978, 2.11032, 2.113990000000003, 1.8850099999999999, 1.6488, 1.6

3794, 1.8010099999999998, 2.20173, 1.57059, 1.6944, 2.6343, 3.08854, 2.4464900000000003,

2.1309, 2.371190000000004, 2.26646, 2.8360000000000003, 1.34759, 2.4748900000000003, 2.0

0073, 2.4653099999999997, 1.59927, 2.86712, 2.67585, 2.06367, 1.7379900000000001, 2.61955

, 2.08528, 3.10712]

Mean absolute error:- 0.0002466539101779667

Mean squared error:- 8.85480948964946e-08

Root mean squared error:- 0.00029757031924655154

r2 Score:- 0.9999995783682183

At random state 242 the model performs very well

At random state 242

Training score is

0.9999997417375626

Predicted value is [1.71927338 2.11812218 2.6195822 2.09025169 2.80733296 1.87659605

2.04401424 2.4484166 2.20143682 2.24708159 1.46174584 2.45190726

1.96945851 1.7379464 2.85759177 1.93105743 2.37161358 3.10707735
1.87874231 1.68430371 2.08476952 1.95593766 2.30866057 1.95068069
2.18864594 2.6343927 1.5989436 1.63811197 1.44416907 1.41713697] and Actual value is [
1.7195599999999998, 2.11773, 2.61955, 2.0906599999999997, 2.8079099999999997, 1.876340000
0000001, 2.04384000000000003, 2.44876, 2.20173, 2.24729, 1.46181, 2.4517599999999997, 1.96
96099999999999, 1.73799000000000001, 2.85737, 1.93129000000000002, 2.3711900000000004, 3.10
712, 1.87877, 1.68435, 2.08528, 1.9563700000000002, 2.30919, 1.95071, 2.18896, 2.6343, 1.
59927, 1.63794, 1.44395, 1.41723]

Mean absolute error:- 0.00023638386670280138
Mean squared error:- 8.155517980824894e-08
Root mean squared error:- 0.0002855786753387741
r2 Score:- 0.999995514072314

At random state 243 the model performs very well
At random state 243
Training score is
0.999997182660445

Predicted value is [2.31982072 2.74280326 2.20789104 3.19105264 0.89937844 1.42784775
2.18865949 0.67144179 2.04396681 2.06384287 2.11354809 2.89319168
1.80032554 2.51748699 2.43237567 1.71921472 3.03480857 1.7614724
1.8787733 2.50961792 2.61951285 1.59891336 2.8074578 1.63327806
2.8359175 2.4384841 1.83337932 2.21998743 2.86697861 1.68425969] and Actual value is [
2.31945, 2.74255, 2.20857, 3.191309999999996, 0.89991, 1.42766, 2.18896, 0.67108, 2.0438
400000000003, 2.06367, 2.1139900000000003, 2.89319, 1.801009999999998, 2.517379999999999
7, 2.43209, 1.719559999999998, 3.035, 1.76145, 1.87877, 2.51011, 2.61955, 1.59927, 2.807
9099999999997, 1.633279999999998, 2.8360000000000003, 2.43872, 1.83302, 2.21978, 2.86712
, 1.68435]

Mean absolute error:- 0.0002593853438336624
Mean squared error:- 1.0216341604642728e-07
Root mean squared error:- 0.0003196301238094233
r2 Score:- 0.99999710290432

At random state 244 the model performs very well
At random state 244
Training score is
0.99999685557432

Predicted value is [2.5944092 1.87656387 1.76144317 1.84413909 2.70216988 1.46501955
1.7533277 1.63325321 0.99841287 2.48657833 1.68152814 2.67777902
2.23233862 3.60189373 3.17763044 2.09979398 2.12506033 3.10732826
2.20149254 1.34729821 1.99177753 1.88959514 2.50987369 1.86426689
1.59895728 1.64838897 1.57160178 2.86700771 2.24709729 2.85763384] and Actual value is [
2.5945, 1.876340000000001, 1.76145, 1.84408, 2.70201, 1.46494, 1.7536, 1.633279999999999
8, 0.99895, 2.48676, 1.68135, 2.67782, 2.2327, 3.6021400000000003, 3.17728, 2.10017, 2.12
466, 3.107090000000004, 2.20173, 1.34759, 1.991720000000002, 1.889309999999998, 2.5100
9, 1.86399, 1.59927, 1.6488, 1.5714, 2.86712, 2.24743, 2.85737]

Mean absolute error:- 0.00022764024735477673
Mean squared error:- 6.820042154983816e-08
Root mean squared error:- 0.0002611521042416434
r2 Score:- 0.999998070876341

At random state 245 the model performs very well
At random state 245
Training score is
0.999997260521443

Predicted value is [2.46555352 2.61958552 1.97544772 2.23777028 2.47503369 2.12373382
1.94270996 1.94932128 1.59581719 1.95595229 1.88528823 2.11555157
1.83348088 3.19117518 2.82367963 1.64833511 1.7931656 1.99178495
2.319683 2.09980199 1.63805743 2.76611518 3.26048437 0.98176103
2.43248415 1.41720648 2.20151899 1.9529512 1.21363223 2.84827651] and Actual value is [
2.4657, 2.61955, 1.9757, 2.237409999999997, 2.474890000000003, 2.12367, 1.9429599999999
998, 1.949390000000002, 1.59541, 1.956370000000002, 1.885009999999999, 2.1156900000000
003, 1.83302, 3.191309999999996, 2.82334, 1.6488, 1.79293, 1.991720000000002, 2.31945,
2.10017, 1.63794, 2.76579, 3.26001, 0.98195, 2.43209, 1.41723, 2.20173, 1.95335, 1.21305,
2.84848]

Mean absolute error:- 0.0002594432661232937

Mean squared error:- 8.922079289027513e-08
Root mean squared error:- 0.0002986984983060262
r2 Score:- 0.9999996767387567

At random state 246 the model performs very well
At random state 246
Training score is
0.9999997515373616

Predicted value is [2.46550798 3.26045302 1.76140469 2.02479753 1.8696793 1.86416047
1.87657891 2.45180048 1.94271332 1.84412572 1.59855519 2.51746968
1.71924886 2.79880388 2.20793136 1.96961855 1.75335143 2.04401232
2.50953941 2.02489349 1.444158 1.64829661 2.24623993 1.99178785
2.323025 2.41448572 2.24711397 1.26495581 2.23230151 2.53922455] and Actual value is [
2.4657, 3.26001, 1.76145, 2.025, 1.8698400000000002, 1.86399, 1.8763400000000001, 2.45175
9999999997, 1.9429599999999998, 1.84408, 1.5988799999999999, 2.5173799999999997, 1.71955
9999999998, 2.79832, 2.20857, 1.9699400000000002, 1.7536, 2.0438400000000003, 2.51011, 2
.0251799999999998, 1.44395, 1.6488, 2.2463900000000003, 1.9917200000000002, 2.32323, 2.41
48400000000003, 2.24729, 1.26462, 2.2327, 2.5394200000000002]

Mean absolute error:- 0.0002609238253806249
Mean squared error:- 9.132025364344909e-08
Root mean squared error:- 0.0003021924116245295
r2 Score:- 0.9999994629515703

At random state 247 the model performs very well
At random state 247
Training score is
0.9999997273830136

Predicted value is [1.76140558 1.88954535 2.05104875 2.21129018 2.11813007 1.99175355
2.45365454 2.89318161 1.8985856 2.1099958 2.48657191 2.6195659
1.58834524 1.73930041 2.85764492 1.5957078 1.42791892 2.74278153
1.84416177 3.10710947 2.46557465 1.44424474 2.80733928 1.59899978
1.86614506 2.09979156 2.45186092 2.47495933 1.24122435 1.95845936] and Actual value is [
1.76145, 1.8893099999999998, 2.05125, 2.21126, 2.11773, 1.9917200000000002, 2.45372999999
9997, 2.89319, 1.89894, 2.11032, 2.48676, 2.61955, 1.58782, 1.7393299999999998, 2.85737,
1.59541, 1.42766, 2.74255, 1.84408, 3.10712, 2.4657, 1.44395, 2.807909999999997, 1.59927
, 1.86565, 2.10017, 2.451759999999997, 2.4748900000000003, 1.24074, 1.95812]

Mean absolute error:- 0.00022500228888447567
Mean squared error:- 7.849669421997315e-08
Root mean squared error:- 0.00028017261504289305
r2 Score:- 0.9999996605822468

At random state 248 the model performs very well
At random state 248
Training score is
0.9999997148475707

Predicted value is [1.80036845 1.95071842 2.51750832 2.80739925 1.26495076 2.06385281
0.6714311 2.48656423 2.23233146 1.75867798 1.75333419 2.24709179
2.59435811 1.4650583 2.31981067 2.02482623 1.68427796 2.41450493
1.8850146 2.32131098 1.92335784 1.34735567 2.32307092 3.10726893
1.93107352 2.45189846 2.05105357 2.86701991 2.53340548 2.49204553] and Actual value is [
1.801009999999998, 1.95071, 2.517379999999997, 2.807909999999997, 1.26462, 2.06367, 0.
67108, 2.48676, 2.2327, 1.75873, 1.7536, 2.24729, 2.5945, 1.46494, 2.31945, 2.025, 1.6843
5, 2.4148400000000003, 1.8854099999999998, 2.3214200000000003, 1.92313, 1.34759, 2.32323,
3.1070900000000004, 1.9312900000000002, 2.451759999999997, 2.05125, 2.86712, 2.5332, 2.4
920400000000003]

Mean absolute error:- 0.00022009560791113786
Mean squared error:- 6.810004895751881e-08
Root mean squared error:- 0.0002609598608167908
r2 Score:- 0.9999997368944449

At random state 249 the model performs very well
At random state 249
Training score is
0.999999755025693

Predicted value is [2.75460555 1.71922109 1.58824988 2.50985337 2.37158274 1.41716532

3.03486768 1.63810249 2.41454513 2.27559238 1.95254073 2.12512288
2.67615125 2.50963457 2.86699528 3.05114569 1.7852081 2.8236819
1.89859764 1.88502808 2.10993757 2.51752122 2.09021139 1.88957721
1.80037631 3.17766219 3.26048935 1.26498011 2.09975157 2.02494367] and Actual value is [
2.75414, 1.7195599999999998, 1.58782, 2.51009, 2.3711900000000004, 1.41723, 3.035, 1.6379
4, 2.4148400000000003, 2.27513, 1.9521, 2.12466, 2.67585, 2.51011, 2.86712, 3.05137, 1.78
555, 2.82334, 1.89894, 1.8854099999999998, 2.11032, 2.5173799999999997, 2.0906599999999999
7, 1.8893099999999998, 1.8010099999999998, 3.17728, 3.26001, 1.26462, 2.10017, 2.02517999
9999998]

Mean absolute error:- 0.0003389130119051472

Mean squared error:- 1.3134473009697512e-07

Root mean squared error:- 0.00036241513502746425

r2 Score:- 0.99999526262493

At random state 250 the model performs very well

At random state 250

Training score is

0.999997119802263

Predicted value is [1.57032691 2.11814775 1.96973424 2.1314201 1.46509852 2.74279422
0.65448713 1.76136876 1.58830451 2.02494686 2.83598617 1.57164089
2.23778541 1.99179605 2.50989437 1.64835161 2.41454661 0.98173005
2.82364319 3.05124992 2.59439969 1.41719383 2.20795351 2.76609625
1.42787803 2.26426215 2.37161668 1.87660918 1.71928412 1.93107818] and Actual value is [
1.57059, 2.11773, 1.9699400000000002, 2.1309, 1.46494, 2.74255, 0.6542899999999999, 1.761
45, 1.58782, 2.0251799999999998, 2.8360000000000003, 1.5714, 2.2374099999999997, 1.991720
0000000002, 2.51009, 1.6488, 2.4148400000000003, 0.98195, 2.82334, 3.05137, 2.5945, 1.417
23, 2.20857, 2.76579, 1.42766, 2.26425, 2.3711900000000004, 1.8763400000000001, 1.7195599
99999998, 1.9312900000000002]

Mean absolute error:- 0.0002521744111783371

Mean squared error:- 8.564556016911103e-08

Root mean squared error:- 0.00029265262713516006

r2 Score:- 0.999997251602255

At random state 251 the model performs very well

At random state 251

Training score is

0.999997215973083

Predicted value is [1.9584786 2.09025528 1.87882093 2.21999896 2.83597017 3.6018262
2.02484801 1.68432562 1.46510237 2.89320383 2.13140658 1.88498799
1.58829769 1.79317004 2.7427759 1.86973102 2.05107947 1.95598157
2.59438503 2.46514446 1.96971312 1.93109096 1.59898142 1.88952101
3.10721869 2.32380667 1.86609327 2.24711976 2.23774881 2.86707355] and Actual value is [
1.95812, 2.0906599999999997, 1.87877, 2.21978, 2.8360000000000003, 3.6021400000000003, 2.
025, 1.68435, 1.46494, 2.89319, 2.1309, 1.885409999999998, 1.58782, 1.79293, 2.74255, 1.
8698400000000002, 2.05125, 1.9563700000000002, 2.5945, 2.465309999999997, 1.969940000000
0002, 1.9312900000000002, 1.59927, 1.88930999999998, 3.1070900000000004, 2.32407, 1.865
65, 2.24729, 2.23740999999997, 2.86712]

Mean absolute error:- 0.00022887973476990454

Mean squared error:- 7.145893391371763e-08

Root mean squared error:- 0.0002673180388857393

r2 Score:- 0.999997021049634

At random state 252 the model performs very well

At random state 252

Training score is

0.999997398046147

Predicted value is [1.95594512 2.79887595 1.95070907 1.69488763 1.94270864 1.86429265
2.74282281 2.6762606 1.87868642 1.61619558 2.20141673 2.04399471
2.76622179 2.24195252 1.34731123 2.5099553 1.58822289 1.96944285
1.85992538 1.73834173 1.95305055 1.7852484 2.51765591 1.7615331
2.12374305 1.46500858 2.70223149 3.10736807 2.61951718 2.00075438] and Actual value is [
1.9563700000000002, 2.79832, 1.95071, 1.6944, 1.942959999999998, 1.86399, 2.74255, 2.675
85, 1.87877, 1.6158299999999999, 2.20173, 2.0438400000000003, 2.76579, 2.24173, 1.34759,
2.51009, 1.58782, 1.9696099999999999, 1.8604, 1.73797, 1.95335, 1.78555, 2.51767, 1.76145
, 2.12367, 1.46494, 2.70201, 3.1070900000000004, 2.61955, 2.00073]

Mean absolute error:- 0.0002501583697741931
Mean squared error:- 8.664167596269682e-08
Root mean squared error:- 0.0002943495812171249
r2 Score:- 0.9999995628604299

At random state 253 the model performs very well
At random state 253
Training score is
0.9999997411000399
Predicted value is [1.9696446 1.59584267 2.83595685 3.19113663 3.10705097 1.265043
2.82366198 2.32308802 2.04402373 2.75459243 1.89863282 1.76150844
1.21366051 2.89321238 2.23226905 1.95592813 2.63449144 2.43247315
2.10998653 2.51770445 1.69486306 1.68168537 2.09036637 2.49199575
2.26644581 1.88530022 2.446819 1.83350026 1.80047824 1.24122316] and Actual value is [
1.9699400000000002, 1.59541, 2.8360000000000003, 3.1913099999999996, 3.10712, 1.26462, 2.
82334, 2.32323, 2.0438400000000003, 2.75414, 1.89894, 1.76145, 1.21305, 2.89319, 2.2327,
1.9563700000000002, 2.6343, 2.43209, 2.11032, 2.51767, 1.6944, 1.68135, 2.090659999999999
7, 2.4920400000000003, 2.26646, 1.885009999999999, 2.4464900000000003, 1.83302, 1.801009
999999998, 1.24074]

Mean absolute error:- 0.00028718293538615067
Mean squared error:- 1.118258090921917e-07
Root mean squared error:- 0.000334403661900093
r2 Score:- 0.9999995984411912

At random state 254 the model performs very well
At random state 254
Training score is
0.9999997257313035
Predicted value is [1.80036539 2.24180361 2.51752423 2.45189609 2.08473893 1.75867504
1.89854747 1.3473744 2.27540471 2.44681842 2.44217257 2.74280857
1.44418534 2.02495728 1.99176116 1.88503057 1.41719297 2.8670225
1.94271921 1.62256145 1.61624329 2.44844539 1.68155014 2.80740085
1.86611366 0.65450168 1.75338133 1.38095974 3.10709396 2.82365087] and Actual value is [
1.801009999999998, 2.24173, 2.517379999999997, 2.451759999999997, 2.08528, 1.75873, 1.
89894, 1.34759, 2.27513, 2.4464900000000003, 2.44191, 2.74255, 1.44395, 2.025179999999999
8, 1.9917200000000002, 1.8854099999999998, 1.41723, 2.86712, 1.942959999999998, 1.62215,
1.615829999999999, 2.44876, 1.68135, 2.807909999999997, 1.86565, 0.6542899999999999, 1.
7536, 1.38079, 3.10712, 2.82334]

Mean absolute error:- 0.0002610082715444495
Mean squared error:- 9.224491524505984e-08
Root mean squared error:- 0.00030371848024949
r2 Score:- 0.999999688125042

At random state 255 the model performs very well
At random state 255
Training score is
0.9999997111117759
Predicted value is [3.10710327 1.4650901 1.95846963 1.38100966 2.80739162 1.97551415
1.86432384 2.24710068 2.51749727 2.53916713 2.50989417 1.76141801
1.84413653 3.1072862 1.85997853 1.88955981 2.4518952 2.12375521
2.11815708 1.59567295 1.41717745 1.8985498 1.26495936 2.70214934
2.32130732 1.638167 1.57035348 2.5176509 2.09980682 3.0348067] and Actual value is [
3.10712, 1.46494, 1.95812, 1.38079, 2.807909999999997, 1.9757, 1.86399, 2.24743, 2.51737
9999999997, 2.5394200000000002, 2.51009, 1.76145, 1.84408, 3.1070900000000004, 1.8604, 1
.889309999999998, 2.451759999999997, 2.12367, 2.11773, 1.59541, 1.41723, 1.89894, 1.264
62, 2.70201, 2.3214200000000003, 1.63794, 1.57059, 2.51767, 2.10017, 3.035]

Mean absolute error:- 0.00022030586810587078
Mean squared error:- 6.572478012494556e-08
Root mean squared error:- 0.0002563684460399633
r2 Score:- 0.9999997506208843

At random state 256 the model performs very well
At random state 256
Training score is
0.9999996844897392

Predicted value is [1.26494724 2.45367943 3.10738313 2.44225617 1.87879866 1.46181143
2.44688419 1.3809934 2.32131486 1.97545769 1.87659321 3.10717241
1.68427011 2.59442296 1.79317658 2.18866251 3.60188875 2.7988814
2.02490158 3.26048776 2.67619703 1.9585071 2.2419267 3.03489721
1.96940256 1.95254306 2.75459429 2.61952142 1.95076789 2.47497467] and Actual value is [
1.26462, 2.4537299999999997, 3.1070900000000004, 2.44191, 1.87877, 1.46181, 2.44649000000
00003, 1.38079, 2.3214200000000003, 1.9757, 1.8763400000000001, 3.10712, 1.68435, 2.5945,
1.79293, 2.18896, 3.602140000000003, 2.79832, 2.025, 3.26001, 2.67585, 1.95812, 2.24173,
3.035, 1.969609999999999, 1.9521, 2.75414, 2.61955, 1.95071, 2.4748900000000003]

Mean absolute error:- 0.00022324128251022629
Mean squared error:- 7.346831768494221e-08
Root mean squared error:- 0.0002710503969466605
r2 Score:- 0.9999997708056473

At random state 257 the model performs very well
At random state 257
Training score is

0.9999997173466133

Predicted value is [2.24186041 2.0510818 2.83597668 2.7906805 1.96936216 2.41449464
1.42789599 2.70213088 1.75871358 2.50957998 1.86967859 2.51773465
0.89937638 1.59569097 1.92340148 2.27409712 2.51747385 2.31978434
2.02495103 1.9754381 2.2470636 1.99182773 2.45367505 2.67776914
1.59895948 1.85113896 2.44225046 2.85764628 3.26048388 2.00077256] and Actual value is [
2.24173, 2.05125, 2.8360000000000003, 2.79094, 1.969609999999999, 2.4148400000000003, 1.
42766, 2.70201, 1.75873, 2.51011, 1.8698400000000002, 2.51767, 0.89991, 1.59541, 1.92313,
2.27394, 2.5173799999999997, 2.31945, 2.0251799999999998, 1.9757, 2.24743, 1.991720000000
0002, 2.4537299999999997, 2.67782, 1.59927, 1.851, 2.44191, 2.85737, 3.26001, 2.00073]

Mean absolute error:- 0.00022096184533039188
Mean squared error:- 6.883733492236518e-08
Root mean squared error:- 0.00026236870034812684
r2 Score:- 0.9999997064456854

At random state 258 the model performs very well
At random state 258
Training score is

0.9999997212376308

Predicted value is [2.67772997 1.75332032 1.99172914 1.78521868 2.85757878 2.44841401
2.04403237 2.02486664 1.4650431 2.11554473 1.89858027 2.1313804
2.46516365 2.32306907 2.23229781 2.12502872 1.7192669 2.45187081
2.32378534 1.97548647 2.32131994 1.21361708 1.85995113 2.30868336
0.67140713 2.47498891 2.51750778 1.4617452 0.65457855 2.06394575] and Actual value is [
2.67782, 1.7536, 1.9917200000000002, 1.78555, 2.85737, 2.44876, 2.0438400000000003, 2.025
, 1.46494, 2.1156900000000003, 1.89894, 2.1309, 2.4653099999999997, 2.32323, 2.2327, 2.12
466, 1.7195599999999998, 2.4517599999999997, 2.32407, 1.9757, 2.3214200000000003, 1.21305
, 1.8604, 2.30919, 0.67108, 2.4748900000000003, 2.5173799999999997, 1.46181, 0.6542899999
99999, 2.06367]

Mean absolute error:- 0.00024883448905297365
Mean squared error:- 8.208065784365688e-08
Root mean squared error:- 0.00028649722135416403
r2 Score:- 0.9999996846508534

At random state 259 the model performs very well
At random state 259
Training score is

0.9999997220632817

Predicted value is [1.69494247 2.45189901 0.98185253 3.05118032 1.80040332 1.57159283
0.65453861 1.21358417 1.898595 1.61624895 2.12508063 3.10734799
2.24629531 1.86435585 2.26422695 1.87666584 1.97550983 1.73930387
1.96975449 2.31986166 2.74281839 1.24116828 2.27408783 2.18864942
1.96946365 2.27555302 2.23230403 2.82366254 2.20148252 1.34735577] and Actual value is [
1.6944, 2.4517599999999997, 0.98195, 3.05137, 1.801009999999998, 1.5714, 0.654289999999
999, 1.21305, 1.89894, 1.6158299999999999, 2.12466, 3.1070900000000004, 2.2463900000000000
3, 1.86399, 2.26425, 1.8763400000000001, 1.9757, 1.7393299999999998, 1.9699400000000002,
2.31945, 2.74255, 1.24074, 2.27394, 2.18896, 1.9696099999999999, 2.27513, 2.2327, 2.82334
, 2.20173, 1.34759]

Mean absolute error:- 0.00028470185992777915
Mean squared error:- 1.0302693615549784e-07
Root mean squared error:- 0.0003209780929526154
r2 Score:- 0.9999996690268188

At random state 260 the model performs very well
At random state 260
Training score is
0.9999997371424799
Predicted value is [2.44679591 3.03485043 2.23235301 2.2200026 1.63810986 2.12504478 0.99844014 2.50958629 2.74279578 1.68153849 1.46173164 2.67614605 2.11812439 2.41450198 2.37156255 1.95293688 1.85110362 2.08475314 2.24626314 2.63443917 1.75870881 0.67139867 1.95845711 3.05123976 2.11358237 2.32132408 2.79070024 2.45186007 1.64837243 2.09977223] and Actual value is [2.4464900000000003, 3.035, 2.2327, 2.21978, 1.63794, 2.12466, 0.99895, 2.51011, 2.74255, 1.68135, 1.46181, 2.67585, 2.11773, 2.4148400000000003, 2.3711900000000004, 1.95335, 1.851, 2.08528, 2.2463900000000003, 2.6343, 1.75873, 0.67108, 1.95812, 3.05137, 2.1139900000000003, 2.3214200000000003, 2.79094, 2.451759999999997, 1.6488, 2.10017]

Mean absolute error:- 0.00027708273054615574
Mean squared error:- 9.687711940144206e-08
Root mean squared error:- 0.0003112508946195048
r2 Score:- 0.9999996536779039

At random state 261 the model performs very well
At random state 261
Training score is
0.99999969687384
Predicted value is [2.05110071 2.59436314 1.95243858 2.46512309 1.85999322 1.6842863 1.59893545 1.95292359 1.34740393 1.83343222 2.20147359 3.1910634 2.4384675 1.86966535 2.32131092 2.70217197 2.80742296 3.60173493 1.61626185 1.8796561 1.26503617 1.42791691 1.21366954 3.17757669 1.76152067 1.92336456 1.46178892 2.53915984 1.41719745 1.46509046] and Actual value is [2.05125, 2.5945, 1.9521, 2.4653099999999997, 1.8604, 1.68435, 1.59927, 1.95335, 1.34759, 1.83302, 2.20173, 3.1913099999999996, 2.43872, 1.8698400000000002, 2.3214200000000003, 2.70201, 2.807909999999997, 3.6021400000000003, 1.6158299999999999, 1.8799599999999999, 1.26462, 1.42766, 1.21305, 3.17728, 1.76145, 1.92313, 1.46181, 2.539420000000002, 1.41723, 1.46494]

Mean absolute error:- 0.0002609741124306305
Mean squared error:- 8.867958356380547e-08
Root mean squared error:- 0.00029779117442228786
r2 Score:- 0.9999997584215293

At random state 262 the model performs very well
At random state 262
Training score is
0.9999997072197192
Predicted value is [1.44420163 2.12381426 1.41715431 2.44692239 3.08890228 0.99844842 2.43857515 1.94937063 2.79887839 2.74285339 2.32385293 2.59445126 3.1776942 2.85772314 2.51751976 2.53343681 1.86613323 1.75873799 2.50963092 2.76617279 1.9696922 2.84834024 2.44226298 2.43251089 1.87659082 2.13143064 0.67135345 1.7931812 1.95599013 3.19123588] and Actual value is [1.44395, 2.12367, 1.41723, 2.4464900000000003, 3.08854, 0.99895, 2.43872, 1.9493900000000002, 2.79832, 2.74255, 2.32407, 2.5945, 3.17728, 2.85737, 2.5173799999999997, 2.5332, 1.86565, 1.75873, 2.51011, 2.76579, 1.9699400000000002, 2.84848, 2.44191, 2.43209, 1.876340000000001, 2.1309, 0.67108, 1.79293, 1.9563700000000002, 3.191309999999996]

Mean absolute error:- 0.0002826059806640894
Mean squared error:- 1.043564146746836e-07
Root mean squared error:- 0.0003230424347894307
r2 Score:- 0.9999997126851816

At random state 263 the model performs very well
At random state 263
Training score is
0.9999997057448737
Predicted value is [3.1073715 2.31987479 1.41710459 2.89324024 2.11813775 2.85762064

2.45365449 3.0511586 2.50982924 1.73793705 1.57168425 0.99845921
2.83597139 1.78526974 1.42784155 1.26499027 3.191076 2.50966878
1.69488399 2.22009094 2.05098162 1.92337124 1.88962426 1.75331031
1.86609348 2.44688664 2.79061622 2.86705213 1.86003456 2.53342616] and Actual value is [
3.1070900000000004, 2.31945, 1.41723, 2.89319, 2.11773, 2.85737, 2.4537299999999997, 3.05
137, 2.51009, 1.7379900000000001, 1.5714, 0.99895, 2.8360000000000003, 1.78555, 1.42766,
1.26462, 3.1913099999999996, 2.51011, 1.6944, 2.21978, 2.05125, 1.92313, 1.8893099999999999
98, 1.7536, 1.86565, 2.4464900000000003, 2.79094, 2.86712, 1.8604, 2.5332]

Mean absolute error:- 0.00027279214394793826
Mean squared error:- 9.1356865098961e-08
Root mean squared error:- 0.0003022529819521407
r2 Score:- 0.9999997332891353

At random state 264 the model performs very well
At random state 264
Training score is
0.9999997422901001

Predicted value is [2.11357289 2.23773147 1.57036536 1.83331899 1.86970398 2.82364547
2.3715825 2.20791587 2.09976292 2.80739227 1.86433632 0.89945551
2.063854 1.58829943 1.26503186 2.7428131 2.27544163 1.57166199
1.24118281 3.03483557 2.11810644 1.63816512 1.85107262 2.44846004
3.17763632 2.12380668 2.6195542 2.79068929 2.43852346 2.51766833] and Actual value is [
2.1139900000000003, 2.2374099999999997, 1.57059, 1.83302, 1.8698400000000002, 2.82334, 2.
3711900000000004, 2.20857, 2.10017, 2.8079099999999997, 1.86399, 0.89991, 2.06367, 1.5878
2, 1.26462, 2.74255, 2.27513, 1.5714, 1.24074, 3.035, 2.11773, 1.63794, 1.851, 2.44876, 3
.17728, 2.12367, 2.61955, 2.79094, 2.43872, 2.51767]

Mean absolute error:- 0.00029718276461327596
Mean squared error:- 1.0991409214647785e-07
Root mean squared error:- 0.00033153294277715127
r2 Score:- 0.9999996283735557

At random state 265 the model performs very well
At random state 265
Training score is
0.9999997451190075

Predicted value is [2.37151769 1.78520523 2.24171643 2.09032245 3.26047874 1.2650739
2.50988994 2.75457185 1.46180952 1.96962157 2.79877948 3.19118832
2.04405111 2.11558387 2.12381281 2.49198478 2.44842666 1.94932336
1.42785968 2.06387197 1.616262 1.95292504 2.50956111 2.59442377
2.109913 1.64833896 2.27419007 2.80734029 1.21364507 2.51763655] and Actual value is [
2.3711900000000004, 1.78555, 2.24173, 2.0906599999999997, 3.26001, 1.26462, 2.51009, 2.75
414, 1.46181, 1.9699400000000002, 2.79832, 3.1913099999999996, 2.0438400000000003, 2.1156
900000000003, 2.12367, 2.4920400000000003, 2.44876, 1.9493900000000002, 1.42766, 2.06367,
1.6158299999999999, 1.95335, 2.51011, 2.5945, 2.11032, 1.6488, 2.27394, 2.8079099999999999
7, 1.21305, 2.51767]

Mean absolute error:- 0.0002864512777578302
Mean squared error:- 1.1301007307640297e-07
Root mean squared error:- 0.00033616970874307366
r2 Score:- 0.9999995669093089

At random state 266 the model performs very well
At random state 266
Training score is
0.9999997423430463

Predicted value is [1.86610707 3.03491846 1.93112877 2.50954499 1.63806395 1.96939398
1.85110774 2.26418945 2.70210969 2.79890706 2.11554957 1.38099036
1.41721939 2.49202734 1.24120362 2.61955946 2.13143039 2.0998047
1.57031125 1.95851597 1.89857808 3.17762145 2.75453652 2.23779833
1.6815908 1.73834979 1.87884844 1.6483219 2.12376263 1.9696346] and Actual value is [
1.86565, 3.035, 1.9312900000000002, 2.51011, 1.63794, 1.969609999999999, 1.851, 2.26425,
2.70201, 2.79832, 2.1156900000000003, 1.38079, 1.41723, 2.4920400000000003, 1.24074, 2.61
955, 2.1309, 2.10017, 1.57059, 1.95812, 1.89894, 3.17728, 2.75414, 2.2374099999999997, 1.
68135, 1.73797, 1.87877, 1.6488, 2.12367, 1.9699400000000002]

Mean absolute error:- 0.00026435955105956753
Mean squared error:- 1.0038353221719857e-07

Root mean squared error:- 0.00031683360335860617

r2 Score:- 0.9999995675236996

At random state 267 the model performs very well

At random state 267

Training score is

0.9999997245541545

Predicted value is [1.864297 1.94940753 0.98172818 2.00081313 3.10713 3.19104755
1.41718491 2.13138441 2.27409699 2.67613518 2.08481498 3.1775485
1.85116361 2.24708901 2.3237645 1.73927452 2.79059393 2.41449292
2.46513737 2.24710744 2.02487029 1.9918478 1.78526003 1.95850307
2.32308035 1.88527542 1.59855339 1.95257503 1.59576442 1.62257272] and Actual value is [
1.86399, 1.9493900000000002, 0.98195, 2.00073, 3.10712, 3.1913099999999996, 1.41723, 2.13
09, 2.27394, 2.67585, 2.08528, 3.17728, 1.851, 2.24729, 2.32407, 1.7393299999999998, 2.79
094, 2.4148400000000003, 2.4653099999999997, 2.24743, 2.025, 1.9917200000000002, 1.78555,
1.95812, 2.32323, 1.8850099999999999, 1.5988799999999999, 1.9521, 1.59541, 1.62215]

Mean absolute error:- 0.00024818050600631245

Mean squared error:- 7.939163379012139e-08

Root mean squared error:- 0.00028176521039709884

r2 Score:- 0.9999996825284486

At random state 268 the model performs very well

At random state 268

Training score is

0.9999997363739531

Predicted value is [2.02497271 1.84419023 2.26644754 2.24713532 2.3715442 2.80739656
1.63810843 1.96940936 1.8642399 1.57169013 2.48658728 1.38100054
2.22000894 2.82364902 2.02485341 2.43851104 2.59440171 1.21365926
1.64839328 2.46513321 1.58832381 2.24630432 1.68156545 2.3230529
3.10715193 2.85764927 2.50956595 1.86613354 2.74280318 2.2642029] and Actual value is [
2.0251799999999998, 1.84408, 2.26646, 2.24729, 2.371190000000004, 2.8079099999999997, 1.
63794, 1.969609999999999, 1.86399, 1.5714, 2.48676, 1.38079, 2.21978, 2.82334, 2.025, 2.
43872, 2.5945, 1.21305, 1.6488, 2.4653099999999997, 1.58782, 2.2463900000000003, 1.68135,
2.32323, 3.1070900000000004, 2.85737, 2.51011, 1.86565, 2.74255, 2.26425]

Mean absolute error:- 0.0002493445899095429

Mean squared error:- 8.550619955739462e-08

Root mean squared error:- 0.000292414431171573

r2 Score:- 0.9999996094592979

At random state 269 the model performs very well

At random state 269

Training score is

0.9999997480008439

Predicted value is [1.78520782 2.31976598 2.32306588 2.11349113 0.67130567 0.98161949
1.64835741 1.95068149 1.46175199 2.21117868 1.80038896 2.06389603
0.89932899 1.88497264 2.61954105 2.12499782 2.24188796 2.30869844
2.75452608 1.869686 1.85989241 2.11554172 2.0439927 2.11813631
2.53916131 2.44842865 1.87658256 1.89850951 2.4866525 1.73923996] and Actual value is [
1.78555, 2.31945, 2.32323, 2.113990000000003, 0.67108, 0.98195, 1.6488, 1.95071, 1.46181
, 2.21126, 1.801009999999998, 2.06367, 0.89991, 1.885409999999998, 2.61955, 2.12466, 2.
24173, 2.30919, 2.75414, 1.869840000000002, 1.8604, 2.115690000000003, 2.04384000000000
03, 2.11773, 2.539420000000002, 2.44876, 1.876340000000001, 1.89894, 2.48676, 1.7393299
999999998]

Mean absolute error:- 0.0002855026827249474

Mean squared error:- 1.0957789679443016e-07

Root mean squared error:- 0.00033102552287464206

r2 Score:- 0.9999995152986505

At random state 270 the model performs very well

At random state 270

Training score is

0.9999997032114274

Predicted value is [3.2605103 3.08886877 1.95300891 2.11352184 1.99173006 2.45363319
2.79076377 2.06392084 2.12502343 2.59440663 1.87657969 2.44222242
3.60189912 2.4484431 2.32132263 1.97544655 1.94938199 1.4441489

0.99843329 2.79886505 2.11554842 0.98161885 2.51763994 1.78521838
1.34730081 2.47497564 1.88497024 1.87874179 2.27412301 1.79313525] and Actual value is [
3.26001, 3.08854, 1.95335, 2.1139900000000003, 1.9917200000000002, 2.4537299999999997, 2.
79094, 2.06367, 2.12466, 2.5945, 1.8763400000000001, 2.44191, 3.6021400000000003, 2.44876
, 2.3214200000000003, 1.9757, 1.9493900000000002, 1.44395, 0.99895, 2.79832, 2.1156900000
000003, 0.98195, 2.51767, 1.78555, 1.34759, 2.4748900000000003, 1.8854099999999998, 1.878
77, 2.27394, 1.79293]

Mean absolute error:- 0.0002474634225460348

Mean squared error:- 8.434722040260443e-08

Root mean squared error:- 0.0002904259292876661

r2 Score:- 0.9999997527452186

At random state 271 the model performs very well

At random state 271

Training score is

0.9999997248100311

Predicted value is [2.1180899 2.50986321 2.59439247 2.89318072 3.60181537 2.24181421

2.67615536 1.62258843 1.57163505 1.83341837 1.4650599 1.88961697

1.87875828 1.57040601 2.1099727 1.9559631 1.86004111 3.03482089

1.9694295 1.61623288 2.20792535 2.12508208 1.95297939 1.75335935

2.45367179 1.78523238 1.68431625 0.67145389 1.9754599 1.59575845] and Actual value is [

2.11773, 2.51009, 2.5945, 2.89319, 3.6021400000000003, 2.24173, 2.67585, 1.62215, 1.5714,
1.83302, 1.46494, 1.8893099999999998, 1.87877, 1.57059, 2.11032, 1.9563700000000002, 1.86

04, 3.035, 1.9696099999999999, 1.6158299999999999, 2.20857, 2.12466, 1.95335, 1.7536, 2.4
537299999999997, 1.78555, 1.68435, 0.67108, 1.9757, 1.59541]

Mean absolute error:- 0.00026792291850236496

Mean squared error:- 9.340965934342654e-08

Root mean squared error:- 0.000305629938558752

r2 Score:- 0.9999996874823048

At random state 272 the model performs very well

At random state 272

Training score is

0.9999997461814426

Predicted value is [1.87664342 1.73930801 2.11815007 2.7989521 2.06398141 2.44685931

1.86425209 2.48680299 2.45360423 1.85105408 2.61952049 1.89855797

1.92337681 2.44841628 1.88960211 2.26423909 2.23230105 2.7908483

2.51760817 1.79315901 1.75871292 2.67622506 2.46559599 1.73837781

2.82364479 1.63318941 2.11347988 1.83351123 0.89941448 1.76149588] and Actual value is [

1.8763400000000001, 1.7393299999999998, 2.11773, 2.79832, 2.06367, 2.4464900000000003, 1.

86399, 2.48676, 2.4537299999999997, 1.851, 2.61955, 1.89894, 1.92313, 2.44876, 1.88930999
99999998, 2.26425, 2.2327, 2.79094, 2.51767, 1.79293, 1.75873, 2.67585, 2.4657, 1.73797,
2.82334, 1.6332799999999998, 2.1139900000000003, 1.83302, 0.89991, 1.76145]

Mean absolute error:- 0.000249063061593476

Mean squared error:- 9.315731208669031e-08

Root mean squared error:- 0.0003052168279874003

r2 Score:- 0.9999994955612607

At random state 273 the model performs very well

At random state 273

Training score is

0.9999997140837547

Predicted value is [1.87875818 2.44220072 2.45361074 2.50988498 2.89317128 1.41714649

1.75874087 2.76613448 1.46506173 2.47497233 1.88957539 2.43248073

1.78524814 1.73930548 1.9493504 2.24709781 2.70216036 1.73835969

1.63810481 2.00078258 3.03486275 1.42786278 1.89858121 1.21360723

1.46173184 2.86703145 2.30868765 1.68433371 2.44685937 1.88499783] and Actual value is [

1.87877, 2.44191, 2.4537299999999997, 2.51009, 2.89319, 1.41723, 1.75873, 2.76579, 1.4649
4, 2.4748900000000003, 1.8893099999999998, 2.43209, 1.78555, 1.7393299999999998, 1.949390
0000000002, 2.24729, 2.70201, 1.73797, 1.63794, 2.00073, 3.035, 1.42766, 1.89894, 1.21305
, 1.46181, 2.86712, 2.30919, 1.68435, 2.4464900000000003, 1.8854099999999998]

Mean absolute error:- 0.00019943734148655245

Mean squared error:- 6.394759402594508e-08

Root mean squared error:- 0.00025287861520094

r2 Score:- 0.9999997380290983

At random state 274 the model performs very well

At random state 274

Training score is

0.999999741198056

Predicted value is [1.88956734 2.47500539 3.60185362 2.0249185 1.88499816 2.79894474
2.02483347 1.21363956 2.08473229 1.85992174 1.84416553 2.09979544
1.75868894 1.8003679 2.11813148 2.13134843 1.9507593 2.06392564
1.75336778 2.53920416 2.51765989 2.83595388 3.17761006 1.8335378
2.85764077 2.12498678 3.10727544 2.04401412 1.34730149 2.89324319] and Actual value is [
1.8893099999999998, 2.4748900000000003, 3.6021400000000003, 2.0251799999999998, 1.8854099
999999998, 2.79832, 2.025, 1.21305, 2.08528, 1.8604, 1.84408, 2.10017, 1.75873, 1.8010099
999999998, 2.11773, 2.1309, 1.95071, 2.06367, 1.7536, 2.5394200000000002, 2.51767, 2.8360
000000000003, 3.17728, 1.83302, 2.85737, 2.12466, 3.1070900000000004, 2.0438400000000003,
1.34759, 2.89319]

Mean absolute error:- 0.0002896097578850639

Mean squared error:- 1.1653933678225906e-07

Root mean squared error:- 0.00034137858278201794

r2 Score:- 0.999995994757569

At random state 275 the model performs very well

At random state 275

Training score is

0.999997212348006

Predicted value is [2.85758867 2.44224885 2.04407461 1.85996216 1.97547526 2.32305601
2.4536048 2.02499704 2.27411194 1.88526233 1.95851509 1.76134604
2.21122513 2.2014373 2.46558451 1.95070274 2.63440527 2.45186647
1.94941172 2.79061876 1.86974369 1.38099101 1.63318025 2.09024761
1.24116882 1.9559744 0.98163796 2.48659888 1.57168999 2.59436349] and Actual value is [
2.85737, 2.44191, 2.0438400000000003, 1.8604, 1.9757, 2.32323, 2.453729999999997, 2.0251
799999999998, 2.27394, 1.8850099999999999, 1.95812, 1.76145, 2.21126, 2.20173, 2.4657, 1.
95071, 2.6343, 2.451759999999997, 1.9493900000000002, 2.79094, 1.8698400000000002, 1.380
79, 1.6332799999999998, 2.0906599999999997, 1.24074, 1.9563700000000002, 0.98195, 2.48676
, 1.5714, 2.5945]

Mean absolute error:- 0.0002132910731290479

Mean squared error:- 6.073162554300633e-08

Root mean squared error:- 0.00024643787359699066

r2 Score:- 0.999996804550052

At random state 276 the model performs very well

At random state 276

Training score is

0.999997388042178

Predicted value is [3.19110397 1.71923899 1.59576299 2.82365584 3.17760538 2.21998346
2.84825633 2.11813565 1.83349654 2.275411 1.7380714 2.45363646
2.2112141 1.57033619 2.80749301 2.2419212 2.06389488 1.21363065
2.50957513 2.49204392 1.42790364 1.80037073 2.8576181 2.2740302
1.95294241 1.44421282 1.89857697 1.85998549 2.86705145 2.76612048] and Actual value is [
3.1913099999999996, 1.7195599999999998, 1.59541, 2.82334, 3.17728, 2.21978, 2.84848, 2.11
773, 1.83302, 2.27513, 1.7379900000000001, 2.453729999999997, 2.21126, 1.57059, 2.807909
9999999997, 2.24173, 2.06367, 1.21305, 2.51011, 2.492040000000003, 1.42766, 1.8010099999
999998, 2.85737, 2.27394, 1.95335, 1.44395, 1.89894, 1.8604, 2.86712, 2.76579]

Mean absolute error:- 0.000286896851688212

Mean squared error:- 1.0647890092554348e-07

Root mean squared error:- 0.000326311049346392

r2 Score:- 0.999996244113611

At random state 277 the model performs very well

At random state 277

Training score is

0.999997365197166

Predicted value is [1.95281822 1.59857965 2.59438116 1.80031049 2.10999321 1.86610317
1.73829937 2.46556578 2.32303212 2.7907583 1.83333098 1.75866132
2.02487986 2.51751467 2.50990916 0.89939188 1.63333653 2.00078181
1.38091746 1.78523088 0.65449924 1.97546048 1.87883149 2.24714656

2.32135133 1.41722298 1.58827492 2.04397184 1.21361322 2.20784327] and Actual value is [1.95335, 1.5988799999999999, 2.5945, 1.8010099999999998, 2.11032, 1.86565, 1.73797, 2.4657, 2.32323, 2.79094, 1.83302, 1.75873, 2.0251799999999998, 2.5173799999999997, 2.51009, 0.89991, 1.6332799999999998, 2.00073, 1.38079, 1.78555, 0.6542899999999999, 1.9757, 1.87877, 2.24729, 2.3214200000000003, 1.41723, 1.58782, 2.0438400000000003, 1.21305, 2.20857]

Mean absolute error:- 0.0002649349919759625

Mean squared error:- 1.073990918145395e-07

Root mean squared error:- 0.00032771800654608454

r2 Score:- 0.999995318101108

At random state 278 the model performs very well

At random state 278

Training score is

0.99999734893798

Predicted value is [0.98178248 2.12512933 2.13137057 1.46178912 2.76619429 2.11561678 1.21350319 2.12375636 2.32131473 1.96976396 1.88528951 2.61954272 1.88960037 1.42782517 2.27558693 2.51750123 2.24629911 1.6333545 2.05109155 2.18863105 2.75460534 1.8004418 2.27411697 2.49202767 1.8643238 1.347339 2.79067184 2.5944188 1.95261093 1.444192] and Actual value is [0.98195, 2.12466, 2.1309, 1.46181, 2.76579, 2.1156900000000003, 1.21305, 2.12367, 2.32142000000003, 1.969940000000002, 1.8850099999999999, 2.61955, 1.8893099999999998, 1.42766, 2.27513, 2.5173799999999997, 2.2463900000000003, 1.6332799999999998, 2.05125, 2.18896, 2.75414, 1.8010099999999998, 2.27394, 2.4920400000000003, 1.86399, 1.34759, 2.79094, 2.5945, 1.9521, 1.44395]

Mean absolute error:- 0.00024366271468285

Mean squared error:- 8.659054792944724e-08

Root mean squared error:- 0.00029426271923138213

r2 Score:- 0.999996075128068

At random state 279 the model performs very well

At random state 279

Training score is

0.999997729927419

Predicted value is [1.80026259 1.76146156 1.68149043 1.57030431 2.21996952 2.43846948 2.83593421 2.24625901 2.53344998 2.50967301 2.3715833 1.95074829 1.95836151 1.8787629 0.99838274 1.68423126 2.11354324 1.61622449 1.89850324 1.9528553 1.94270132 1.86437208 2.09022437 2.32131911 2.05102074 2.2471014 1.95598192 2.31991302 1.694796 2.44846103] and Actual value is [1.8010099999999998, 1.76145, 1.68135, 1.57059, 2.21978, 2.43872, 2.836000000000003, 2.246390000000003, 2.5332, 2.51011, 2.371190000000004, 1.95071, 1.95812, 1.87877, 0.99895, 1.68435, 2.113990000000003, 1.6158299999999999, 1.89894, 1.95335, 1.9429599999999998, 1.86399, 2.090659999999997, 2.321420000000003, 2.05125, 2.24729, 1.9563700000000002, 2.31945, 1.6944, 2.44876]

Mean absolute error:- 0.00029296683867351033

Mean squared error:- 1.1623340182333327e-07

Root mean squared error:- 0.0003409302008085134

r2 Score:- 0.999991113224711

At random state 280 the model performs very well

At random state 280

Training score is

0.999997177618449

Predicted value is [1.97547344 2.24192421 2.11553753 2.23767171 2.44847004 3.03486015 2.89323233 1.69482803 1.7587216 1.95846212 1.83347743 2.30873306 3.08885068 2.21119503 1.94272932 3.19111725 1.93112962 1.96940564 1.86604417 2.05112821 1.95071216 2.76617765 2.51748198 2.74279122 2.47496797 2.84826343 1.95597325 1.38096754 0.89939751 1.9697133] and Actual value is [1.9757, 2.24173, 2.115690000000003, 2.2374099999999997, 2.44876, 3.035, 2.89319, 1.6944, 1.75873, 1.95812, 1.83302, 2.30919, 3.08854, 2.21126, 1.942959999999998, 3.191309999999996, 1.931290000000002, 1.9696099999999999, 1.86565, 2.05125, 1.95071, 2.76579, 2.517379999999997, 2.74255, 2.474890000000003, 2.84848, 1.956370000000002, 1.38079, 0.89991, 1.969940000000002]

Mean absolute error:- 0.00023402704066709893

Mean squared error:- 7.360591893142568e-08

Root mean squared error:- 0.00027130410784104554

r2 Score:- 0.9999997168294735

At random state 281 the model performs very well

At random state 281

Training score is

0.9999997354181165

Predicted value is [2.20794252 1.41712286 2.79068554 2.46553423 2.67613393 1.94930891
0.98168426 2.11557331 1.88494769 2.61956811 2.83599844 2.76612821
1.64828149 1.71922265 0.89939151 1.57162659 1.58827404 2.23771481
2.43247856 2.2417683 1.46504703 2.48650463 1.76133335 1.75875692
1.96965694 2.12510856 1.97539879 2.18860919 2.59442244 1.8660615] and Actual value is [
2.20857, 1.41723, 2.79094, 2.4657, 2.67585, 1.9493900000000002, 0.98195, 2.115690000000000
03, 1.8854099999999998, 2.61955, 2.8360000000000003, 2.76579, 1.6488, 1.7195599999999998,
0.89991, 1.5714, 1.58782, 2.237409999999997, 2.43209, 2.24173, 1.46494, 2.48676, 1.76145
, 1.75873, 1.9699400000000002, 2.12466, 1.9757, 2.18896, 2.5945, 1.86565]

Mean absolute error:- 0.0002629271492185281

Mean squared error:- 9.71042006712196e-08

Root mean squared error:- 0.0003116154692424938

r2 Score:- 0.9999996113471316

At random state 282 the model performs very well

At random state 282

Training score is

0.9999997149154497

Predicted value is [2.18868697 3.60183868 1.42789352 2.44222819 2.67618393 1.34733549
2.85765213 1.94274218 2.08472908 3.10725583 1.59891026 2.79891168
1.9493586 2.59438368 2.21118944 2.24192264 2.53338546 1.58822955
1.68424348 1.89853881 1.79318949 0.98173621 1.57029717 1.63811192
2.24707598 2.50959552 1.99177927 1.69474484 2.82367051 2.32303948] and Actual value is [
2.18896, 3.6021400000000003, 1.42766, 2.44191, 2.67585, 1.34759, 2.85737, 1.9429599999999998,
2.08528, 3.1070900000000004, 1.59927, 2.79832, 1.9493900000000002, 2.5945, 2.21126,
2.24173, 2.5332, 1.58782, 1.68435, 1.89894, 1.79293, 0.98195, 1.57059, 1.63794, 2.24743,
2.51011, 1.9917200000000002, 1.6944, 2.82334, 2.32323]

Mean absolute error:- 0.00027093050247860283

Mean squared error:- 9.174365579162496e-08

Root mean squared error:- 0.00030289215207995234

r2 Score:- 0.999999718047315

At random state 283 the model performs very well

At random state 283

Training score is

0.9999997324900572

Predicted value is [2.2740749 1.88953509 2.50958449 2.83592127 2.51765699 2.2079209
2.41448969 1.94932829 2.05108102 2.08472565 1.95842875 2.5099083
1.89854412 2.74277538 1.85107115 1.24115192 1.80035421 2.86701895
1.84412987 1.75337238 1.63328452 2.84823255 2.89320293 2.63442899
3.60177717 1.7382959 2.44216787 2.32378236 1.44420455 2.47494739] and Actual value is [
2.27394, 1.8893099999999998, 2.51011, 2.8360000000000003, 2.51767, 2.20857, 2.41484000000
00003, 1.9493900000000002, 2.05125, 2.08528, 1.95812, 2.51009, 1.89894, 2.74255, 1.851, 1
.24074, 1.8010099999999998, 2.86712, 1.84408, 1.7536, 1.6332799999999998, 2.84848, 2.8931
9, 2.6343, 3.6021400000000003, 1.73797, 2.44191, 2.32407, 1.44395, 2.4748900000000003]

Mean absolute error:- 0.0002443626777114257

Mean squared error:- 9.245056181355208e-08

Root mean squared error:- 0.00030405683977432915

r2 Score:- 0.9999996360235368

At random state 284 the model performs very well

At random state 284

Training score is

0.9999997451792489

Predicted value is [2.44685134 2.75453948 2.23771225 1.85107953 1.85998717 2.05105414
1.87875198 1.63808979 1.84413314 0.99841284 2.04403642 2.08477417
2.50961195 2.53340465 3.08886756 1.61618085 1.73830664 1.94932068
2.41451994 2.11557943 2.80738883 1.86968711 2.32307716 1.9559643
1.34732635 3.10727297 2.26647648 2.45362534 2.51751688 2.09026536] and Actual value is [

2.4464900000000003, 2.75414, 2.2374099999999997, 1.851, 1.8604, 2.05125, 1.87877, 1.63794 , 1.84408, 0.99895, 2.0438400000000003, 2.08528, 2.51011, 2.5332, 3.08854, 1.6158299999999999, 1.73797, 1.9493900000000002, 2.4148400000000003, 2.1156900000000003, 2.8079099999999997, 1.8698400000000002, 2.32323, 1.9563700000000002, 1.34759, 3.1070900000000004, 2.26646, 2.4537299999999997, 2.5173799999999997, 2.0906599999999997]

Mean absolute error:- 0.0002587083811678603

Mean squared error:- 9.099880584922998e-08

Root mean squared error:- 0.0003016600832878457

r2 Score:- 0.999995812932773

At random state 285 the model performs very well

At random state 285

Training score is

0.999997166323474

Predicted value is [2.23232632 2.50996708 2.45365392 2.30873327 1.80035215 1.88498629 0.65441238 2.53342409 2.43246522 1.85102704 1.79313104 0.99840649 3.26052384 2.2740904 2.74283608 2.09029802 2.79886674 2.32305889 2.11005593 0.67130027 2.89325675 1.950737 2.12373142 1.59889612 2.24184008 2.47503009 1.34727149 2.6345063 1.95592923 2.75454156] and Actual value is [2.2327, 2.51009, 2.4537299999999997, 2.30919, 1.8010099999999998, 1.8854099999999998, 0.6542899999999999, 2.5332, 2.43209, 1.851, 1.79293, 0.99895, 3.26001, 2.27394, 2.74255, 2.0906599999999997, 2.79832, 2.32323, 2.11032, 0.67108, 2.89319, 1.95071, 2.12367, 1.59927, 2.24173, 2.4748900000000003, 1.34759, 2.6343, 1.9563700000000002, 2.75414]

Mean absolute error:- 0.00027550347287477555

Mean squared error:- 1.049985415678849e-07

Root mean squared error:- 0.00032403478450296797

r2 Score:- 0.999997126503528

At random state 286 the model performs very well

At random state 286

Training score is

0.999997123252882

Predicted value is [1.8697197 1.87970925 1.57169678 2.48656872 2.02501671 0.98174403 2.06394391 2.12508416 2.04408467 2.44846273 2.79068882 2.75455945 2.21125935 2.4518453 2.46513672 1.68155374 2.51768009 1.21360196 1.73931552 1.63325018 2.11557738 1.87878862 2.74275673 2.80737221 2.53337406 1.46508704 2.84824097 1.79314186 1.38098051 1.59578287] and Actual value is [1.8698400000000002, 1.8799599999999999, 1.5714, 2.48676, 2.0251799999999998, 0.98195, 2.06367, 2.12466, 2.0438400000000003, 2.44876, 2.79094, 2.75414, 2.21126, 2.4517599999999997, 2.4653099999999997, 1.68135, 2.51767, 1.21305, 1.7393299999999998, 1.6332799999999998, 2.1156900000000003, 1.87877, 2.74255, 2.8079099999999997, 2.5332, 1.46494, 2.84848, 1.79293, 1.38079, 1.59541]

Mean absolute error:- 0.00021398258358620674

Mean squared error:- 6.574098177252829e-08

Root mean squared error:- 0.00025640004245812496

r2 Score:- 0.999997379563131

At random state 287 the model performs very well

At random state 287

Training score is

0.999997704912282

Predicted value is [2.44683032 1.75340213 1.9525248 1.95289591 1.92341914 1.94933825 2.70219214 1.73827624 1.26503378 2.44216856 2.11359076 2.8576627 2.20785874 2.79067946 1.69484703 2.13136026 1.63818376 1.86967693 1.8003701 1.58828123 1.42788227 1.78528047 1.57162672 2.46517879 1.9427599 1.46508559 1.61628376 2.1250692 0.89943147 1.86437987] and Actual value is [2.4464900000000003, 1.7536, 1.9521, 1.95335, 1.92313, 1.9493900000000002, 2.70201, 1.73797, 1.26462, 2.44191, 2.1139900000000003, 2.85737, 2.20857, 2.79094, 1.6944, 2.1309, 1.63794, 1.8698400000000002, 1.8010099999999998, 1.58782, 1.42766, 1.78555, 1.5714, 2.4653099999999997, 1.9429599999999998, 1.46494, 1.6158299999999999, 2.12466, 0.89991, 1.86399]

Mean absolute error:- 0.00033081487274099207

Mean squared error:- 1.3126282423246938e-07

Root mean squared error:- 0.0003623021173447229

r2 Score:- 0.99999318095037

At random state 288 the model performs very well
At random state 288
Training score is
0.9999997610724395
Predicted value is [1.94280632 3.03481547 2.20144997 1.9234149 2.11818549 1.86605048
1.85114285 2.11557483 2.61951322 1.73794476 1.7852546 2.53917299
1.83343248 2.11002977 2.63440597 1.86428445 2.37154377 1.95255517
2.32373811 2.44222034 1.79314612 2.02499076 1.75330705 2.50959245
2.46512581 2.11355489 2.51769165 2.13138706 2.79061578 2.48660843] and Actual value is [
1.942959999999998, 3.035, 2.20173, 1.92313, 2.11773, 1.86565, 1.851, 2.1156900000000003,
2.61955, 1.7379900000000001, 1.78555, 2.5394200000000002, 1.83302, 2.11032, 2.6343, 1.863
99, 2.3711900000000004, 1.9521, 2.32407, 2.44191, 1.79293, 2.025179999999998, 1.7536, 2.
51011, 2.465309999999997, 2.1139900000000003, 2.51767, 2.1309, 2.79094, 2.48676]

Mean absolute error:- 0.0002671842898327744
Mean squared error:- 8.955968989115043e-08
Root mean squared error:- 0.0002992652500561173
r2 Score:- 0.9999992276442139

At random state 289 the model performs very well
At random state 289
Training score is
0.9999997251552434
Predicted value is [3.60173372 2.26422287 2.27415065 1.59903933 1.8697346 1.62264349
2.47490945 1.86428993 2.80727041 2.44838391 1.76139522 1.63317335
1.86611367 2.61951301 1.96943127 1.68151111 2.30866428 2.0639449
2.26645115 3.10707797 3.19107038 2.18866293 1.94941872 1.46508729
2.22003585 2.41450562 2.43247353 2.79059726 1.58833346 1.95846643] and Actual value is [
3.6021400000000003, 2.26425, 2.27394, 1.59927, 1.8698400000000002, 1.62215, 2.47489000000
00003, 1.86399, 2.8079099999999997, 2.44876, 1.76145, 1.6332799999999998, 1.86565, 2.6195
5, 1.9696099999999999, 1.68135, 2.30919, 2.06367, 2.26646, 3.10712, 3.1913099999999996, 2
.18896, 1.9493900000000002, 1.46494, 2.21978, 2.4148400000000003, 2.43209, 2.79094, 1.587
82, 1.95812]

Mean absolute error:- 0.0002517066609518818
Mean squared error:- 9.316613810168411e-08
Root mean squared error:- 0.0003052312862432095
r2 Score:- 0.99999643780585

At random state 290 the model performs very well
At random state 290
Training score is
0.9999996777055188
Predicted value is [1.96971291 1.85111019 2.86705212 2.06392427 1.86969963 0.6714114
3.26043491 2.53338383 1.92340921 2.49200309 1.44419238 1.6815775
3.08883465 1.68428872 2.24711761 1.24118365 2.47496514 2.09028783
3.60183224 1.76143185 1.87660878 2.26644743 1.57165629 2.43858788
0.98173728 2.23232901 1.64838558 2.51768183 1.95251866 1.85999774] and Actual value is [
1.9699400000000002, 1.851, 2.86712, 2.06367, 1.8698400000000002, 0.67108, 3.26001, 2.5332
, 1.92313, 2.4920400000000003, 1.44395, 1.68135, 3.08854, 1.68435, 2.24729, 1.24074, 2.47
48900000000003, 2.0906599999999997, 3.6021400000000003, 1.76145, 1.8763400000000001, 2.26
646, 1.5714, 2.43872, 0.98195, 2.2327, 1.6488, 2.51767, 1.9521, 1.8604]

Mean absolute error:- 0.00022572487416444947
Mean squared error:- 6.901248013524018e-08
Root mean squared error:- 0.0002627022651886355
r2 Score:- 0.999998227810727

At random state 291 the model performs very well
At random state 291
Training score is
0.9999997237800432
Predicted value is [2.04400803 1.75331633 1.88962684 2.24630286 1.95257603 1.93111746
2.00080452 2.80738563 1.79307536 1.86968988 2.32312624 2.26650939
2.48655804 2.21121289 2.31983313 2.74273673 3.05111982 2.79062583
1.69492881 2.23230653 2.11352797 2.63435981 1.46505792 1.94940445
0.6714867 1.88534118 2.46565493 1.73834119 1.41718087 2.26428385] and Actual value is [
2.0438400000000003, 1.7536, 1.889309999999998, 2.2463900000000003, 1.9521, 1.93129000000

00002, 2.00073, 2.8079099999999997, 1.79293, 1.8698400000000002, 2.32323, 2.26646, 2.4867
6, 2.21126, 2.31945, 2.74255, 3.05137, 2.79094, 1.6944, 2.2327, 2.1139900000000003, 2.634
3, 1.46494, 1.9493900000000002, 0.67108, 1.8850099999999999, 2.4657, 1.73797, 1.41723, 2.
26425]

Mean absolute error:- 0.00022495564897663986
Mean squared error:- 7.601634101762499e-08
Root mean squared error:- 0.00027571061099933205
r2 Score:- 0.9999996606593868

At random state 292 the model performs very well

At random state 292

Training score is

0.9999996783198771

Predicted value is [3.10727145 1.46511378 2.2323928 1.63324126 1.88956775 1.5883169
1.42791592 3.10715059 1.24121863 1.63813712 2.6195675 1.79319437
3.17761479 2.45188617 0.99851318 3.60185304 1.87881577 2.44225544
2.86710998 2.47497642 2.53341436 2.63446637 1.73835977 2.44689913
2.46517221 1.46181192 2.43250428 2.51766944 1.92341119 2.11817758] and Actual value is [
3.1070900000000004, 1.46494, 2.2327, 1.6332799999999998, 1.8893099999999998, 1.58782, 1.4
2766, 3.10712, 1.24074, 1.63794, 2.61955, 1.79293, 3.17728, 2.4517599999999997, 0.99895,
3.6021400000000003, 1.87877, 2.44191, 2.86712, 2.4748900000000003, 2.5332, 2.6343, 1.7379
7, 2.4464900000000003, 2.4653099999999997, 1.46181, 2.43209, 2.51767, 1.92313, 2.11773]

Mean absolute error:- 0.00022784330691089465
Mean squared error:- 7.566748337492993e-08
Root mean squared error:- 0.00027507723165491165
r2 Score:- 0.9999998058186799

At random state 293 the model performs very well

At random state 293

Training score is

0.9999997537585391

Predicted value is [2.8482203 1.94272785 1.68154765 2.44837326 2.59434931 2.27539349
2.8073212 2.05104678 2.2462969 1.75329066 1.8599522 1.64836103
2.44684869 2.76610398 2.11557344 1.85101851 1.87665035 2.02496697
3.03479589 2.23225671 2.3086863 2.43861449 2.02483315 2.2741141
2.32128739 2.09979428 1.42778612 1.8642256 1.95588742 2.46557463] and Actual value is [
2.84848, 1.9429599999999998, 1.68135, 2.44876, 2.5945, 2.27513, 2.8079099999999997, 2.051
25, 2.2463900000000003, 1.7536, 1.8604, 1.6488, 2.4464900000000003, 2.76579, 2.11569000000
000003, 1.851, 1.8763400000000001, 2.0251799999999998, 3.035, 2.2327, 2.30919, 2.43872, 2
.025, 2.27394, 2.3214200000000003, 2.10017, 1.42766, 1.86399, 1.9563700000000002, 2.4657]

Mean absolute error:- 0.00026594432362260593
Mean squared error:- 9.034879655763424e-08
Root mean squared error:- 0.00030058076544854667
r2 Score:- 0.999999369699337

At random state 294 the model performs very well

At random state 294

Training score is

0.9999997125534983

Predicted value is [1.76143471 1.97546451 1.73928817 1.94934013 2.11557823 2.32377846
2.32307478 3.05118404 1.86608076 1.96942578 1.7379917 1.93112664
1.71926594 2.24182109 1.57163866 1.59575172 3.19107053 2.43243131
1.68431128 2.24710954 1.86968339 2.4145 1.87878306 1.78524159
2.51769407 1.89858967 0.67143907 1.87659538 1.61621165 2.12375278] and Actual value is [
1.76145, 1.9757, 1.7393299999999998, 1.9493900000000002, 2.1156900000000003, 2.32407, 2.3
2323, 3.05137, 1.86565, 1.9696099999999999, 1.7379900000000001, 1.9312900000000002, 1.719
55999999999998, 2.24173, 1.5714, 1.59541, 3.1913099999999996, 2.43209, 1.68435, 2.24729, 1
.8698400000000002, 2.4148400000000003, 1.87877, 1.78555, 2.51767, 1.89894, 0.67108, 1.876
3400000000001, 1.6158299999999999, 2.12367]

Mean absolute error:- 0.00019679539903989888
Mean squared error:- 5.480168960899413e-08
Root mean squared error:- 0.00023409760701253256
r2 Score:- 0.9999997378617095

At random state 295 the model performs very well
At random state 295
Training score is
0.9999997080603488
Predicted value is [2.50956393 1.79315068 1.63327771 1.59579247 1.7393036 1.69480862
2.44682481 2.80742379 1.96941516 1.95072316 2.11814742 2.24708962
1.8334875 3.26041552 2.11554824 2.53335727 1.26498944 3.19109047
1.21360249 1.87880407 2.83594075 2.09983151 3.60182071 0.89946513
2.79071164 2.20148694 2.49201089 2.5176968 2.75453893 1.71926963] and Actual value is [
2.51011, 1.79293, 1.6332799999999998, 1.59541, 1.7393299999999998, 1.6944, 2.446490000000
0003, 2.8079099999999997, 1.9696099999999999, 1.95071, 2.11773, 2.24729, 1.83302, 3.26001
, 2.1156900000000003, 2.5332, 1.26462, 3.1913099999999996, 1.21305, 1.87877, 2.836000000
000003, 2.10017, 3.6021400000000003, 0.89991, 2.79094, 2.20173, 2.4920400000000003, 2.517
67, 2.75414, 1.7195599999999998]
Mean absolute error:- 0.00026531572781075173
Mean squared error:- 9.85000175927612e-08
Root mean squared error:- 0.0003138471245571022
r2 Score:- 0.9999997413218166

At random state 296 the model performs very well
At random state 296
Training score is
0.999999709306439
Predicted value is [2.51764952 2.86712263 1.76136887 1.95248486 1.95298168 2.59436196
2.37162242 0.89936597 1.44419609 1.68150288 3.60184377 3.08885769
1.97552173 1.85996264 1.89850279 2.53917713 2.12374053 1.84409036
2.26429949 2.13139082 2.74277311 2.30871021 1.63815778 1.59853328
2.67774078 1.73832373 1.8660562 2.82360831 2.7906331 0.98167077] and Actual value is [
2.51767, 2.86712, 1.76145, 1.9521, 1.95335, 2.5945, 2.3711900000000004, 0.89991, 1.44395,
1.68135, 3.6021400000000003, 3.08854, 1.9757, 1.8604, 1.89894, 2.5394200000000002, 2.1236
7, 1.84408, 2.26425, 2.1309, 2.74255, 2.30919, 1.63794, 1.5988799999999999, 2.67782, 1.73
797, 1.86565, 2.82334, 2.79094, 0.98195]
Mean absolute error:- 0.0002620895554271955
Mean squared error:- 9.250633018723126e-08
Root mean squared error:- 0.0003041485331005745
r2 Score:- 0.999999736497052

At random state 297 the model performs very well
At random state 297
Training score is
0.9999997326366865
Predicted value is [2.465212 1.73801269 2.67777878 1.59895794 2.46561607 2.74278961
2.49208635 2.00078223 1.73840183 1.24124638 3.17760319 1.93115497
2.80735117 3.08883899 2.79079237 1.83342039 1.87664554 2.70220018
2.44840491 2.31978348 1.21366965 2.86698546 1.79314848 2.02501492
2.13141611 1.75336426 2.18868636 2.24186815 1.94268713 2.37161214] and Actual value is [
2.4653099999999997, 1.7379900000000001, 2.67782, 1.59927, 2.4657, 2.74255, 2.492040000000
0003, 2.00073, 1.73797, 1.24074, 3.17728, 1.9312900000000002, 2.8079099999999997, 3.08854
, 2.79094, 1.83302, 1.8763400000000001, 2.70201, 2.44876, 2.31945, 1.21305, 2.86712, 1.79
293, 2.0251799999999998, 2.1309, 1.7536, 2.18896, 2.24173, 1.9429599999999998, 2.37119000
00000004]
Mean absolute error:- 0.00026263513153403176
Mean squared error:- 9.467853587525152e-08
Root mean squared error:- 0.00030769877457547914
r2 Score:- 0.9999996213761243

At random state 298 the model performs very well
At random state 298
Training score is
0.9999997394157968
Predicted value is [1.87661651 1.95257692 1.75329281 1.85111962 2.30874755 1.75875158
2.04403456 1.88960682 2.37156705 2.05106747 2.70213427 2.61952384
1.46504733 2.67775855 2.44686061 1.955973 2.45367428 0.67139991
1.69490144 1.87873732 2.09985351 1.59858645 2.06394084 1.95845487
2.45188505 3.10740973 2.18861373 2.1100084 1.88502375 1.97548522] and Actual value is [
1.8763400000000001, 1.9521, 1.7536, 1.851, 2.30919, 1.75873, 2.0438400000000003, 1.889309

9999999998, 2.3711900000000004, 2.05125, 2.70201, 2.61955, 1.46494, 2.67782, 2.4464900000
000003, 1.9563700000000002, 2.4537299999999997, 0.67108, 1.6944, 1.87877, 2.10017, 1.5988
799999999999, 2.06367, 1.95812, 2.4517599999999997, 3.1070900000000004, 2.18896, 2.11032,
1.885409999999998, 1.9757]

Mean absolute error:- 0.0002537073281684991

Mean squared error:- 8.321983591972556e-08

Root mean squared error:- 0.0002884784843272121

r2 Score:- 0.999995743271841

At random state 299 the model performs very well

At random state 299

Training score is

0.999997113658982

Predicted value is [2.11812206 2.11555564 0.65447266 2.48665136 0.9816658 1.95299744
1.63318545 1.87964371 2.46518279 1.570304 1.94271011 1.6483716
2.11350722 2.63444778 2.37158627 2.70215222 1.761415 1.46177094
1.95592314 2.89323344 1.44413611 1.73797572 2.67617511 2.32131862
1.85992718 1.92334895 2.26648686 2.53918533 2.21120933 1.84410241] and Actual value is [
2.11773, 2.1156900000000003, 0.6542899999999999, 2.48676, 0.98195, 1.95335, 1.633279999999
99998, 1.8799599999999999, 2.4653099999999997, 1.57059, 1.942959999999998, 1.6488, 2.113
9900000000003, 2.6343, 2.3711900000000004, 2.70201, 1.76145, 1.46181, 1.9563700000000002,
2.89319, 1.44395, 1.7379900000000001, 2.67585, 2.3214200000000003, 1.8604, 1.92313, 2.266
46, 2.5394200000000002, 2.21126, 1.84408]

Mean absolute error:- 0.00021144900792768873

Mean squared error:- 6.641964050053542e-08

Root mean squared error:- 0.00025772008167881564

r2 Score:- 0.999997298395094

At random state 300 the model performs very well

At random state 300

Training score is

0.999997295963629

Predicted value is [1.83348382 1.59581866 2.76617265 3.05119214 1.63809733 3.10708153
1.99184941 2.50960149 1.88962132 2.63444034 1.96969052 3.26040144
2.44849755 2.46556045 3.03483176 2.11000539 2.53919649 2.21119907
1.69491149 2.2322854 3.19106622 2.53337239 2.27554354 2.24712456
1.42779232 2.32129385 2.08479375 1.78522712 2.37152978 1.95844638] and Actual value is [
1.83302, 1.59541, 2.76579, 3.05137, 1.63794, 3.10712, 1.9917200000000002, 2.51011, 1.8893
099999999998, 2.6343, 1.9699400000000002, 3.26001, 2.44876, 2.4657, 3.035, 2.11032, 2.539
4200000000002, 2.21126, 1.6944, 2.2327, 3.191309999999996, 2.5332, 2.27513, 2.24743, 1.4
2766, 2.3214200000000003, 2.08528, 1.78555, 2.3711900000000004, 1.95812]

Mean absolute error:- 0.0002774524795499186

Mean squared error:- 9.487293708642175e-08

Root mean squared error:- 0.0003080145079154905

r2 Score:- 0.999996015695505

At random state 301 the model performs very well

At random state 301

Training score is

0.999996978343569

Predicted value is [1.92341622 2.02496281 2.44682112 2.02483929 3.1071171 2.05105902
2.51772721 1.96938571 2.45181997 2.10993058 1.38092847 3.10730749
1.88518745 1.866081 3.03482975 2.4919432 2.41448711 1.44416661
1.83337623 3.05117463 1.68427079 2.48658247 2.53918806 3.60184744
1.96968238 1.94935505 1.97542667 0.89941223 2.76614595 2.20789805] and Actual value is [
1.92313, 2.025179999999998, 2.4464900000000003, 2.025, 3.10712, 2.05125, 2.51767, 1.9696
099999999999, 2.451759999999997, 2.11032, 1.38079, 3.107090000000004, 1.885009999999999
9, 1.86565, 3.035, 2.4920400000000003, 2.4148400000000003, 1.44395, 1.83302, 3.05137, 1.6
8435, 2.48676, 2.5394200000000002, 3.6021400000000003, 1.9699400000000002, 1.949390000000
002, 1.9757, 0.89991, 2.76579, 2.20857]

Mean absolute error:- 0.00023817969099097688

Mean squared error:- 7.713159521858692e-08

Root mean squared error:- 0.00027772575541095735

r2 Score:- 0.999997636429296

At random state 302 the model performs very well
At random state 302
Training score is
0.999999759911869
Predicted value is [2.5333891 2.44847276 2.79077824 1.8796793 2.32307293 2.13139631
2.11354852 1.94935591 2.44221844 2.24631321 2.46514165 2.75457697
2.74280763 1.42783157 2.23771511 0.99843731 2.32381553 1.71927039
2.11554641 1.86607302 2.76615963 2.79884737 2.47497602 2.45184557
1.64833783 2.50958972 2.22002712 1.7852275 2.02497932 1.62255907] and Actual value is [
2.5332, 2.44876, 2.79094, 1.8799599999999999, 2.32323, 2.1309, 2.1139900000000003, 1.9493
900000000002, 2.44191, 2.2463900000000003, 2.4653099999999997, 2.75414, 2.74255, 1.42766,
2.2374099999999997, 0.99895, 2.32407, 1.7195599999999998, 2.1156900000000003, 1.86565, 2.
76579, 2.79832, 2.4748900000000003, 2.4517599999999997, 1.6488, 2.51011, 2.21978, 1.78555
, 2.0251799999999998, 1.62215]

Mean absolute error:- 0.0002875469972731692
Mean squared error:- 1.0323335957183049e-07
Root mean squared error:- 0.0003212994857945317
r2 Score:- 0.9999994474808606

At random state 303 the model performs very well
At random state 303
Training score is
0.9999997060655783
Predicted value is [1.44424792 2.26421296 2.44220705 3.08883216 2.4468439 0.67150598
2.24707643 3.03484296 2.32383671 2.83597964 1.6162914 2.61951066
1.75874008 2.0847523 3.26043597 2.50961312 2.848284 1.86433243
1.78531148 1.59862668 2.02487121 1.21364688 2.48659103 2.74281834
1.87882739 1.42794851 1.88519069 2.45186074 1.88958778 1.26506747] and Actual value is [
1.44395, 2.26425, 2.44191, 3.08854, 2.4464900000000003, 0.67108, 2.24743, 3.035, 2.32407,
2.8360000000000003, 1.6158299999999999, 2.61955, 1.75873, 2.08528, 3.26001, 2.51011, 2.84
848, 1.86399, 1.78555, 1.5988799999999999, 2.025, 1.21305, 2.48676, 2.74255, 1.87877, 1.4
2766, 1.8850099999999999, 2.4517599999999997, 1.8893099999999998, 1.26462]

Mean absolute error:- 0.0002658504057273266
Mean squared error:- 9.510516862610517e-08
Root mean squared error:- 0.00030839125899756817
r2 Score:- 0.9999997414676035

At random state 304 the model performs very well
At random state 304
Training score is
0.9999997218530204
Predicted value is [2.43855061 1.73795868 2.46514189 2.27552793 2.32131332 2.20790756
2.27411255 1.68155156 1.41718556 1.63333346 2.32307133 1.758719
1.78522071 1.24109932 2.44681783 1.93108687 2.79066277 1.88524997
2.04402339 2.83595212 1.7392479 2.24626518 1.92342444 1.59899898
1.76137352 1.85110589 3.10731638 2.50958884 0.89938308 2.45371793] and Actual value is [
2.43872, 1.7379900000000001, 2.4653099999999997, 2.27513, 2.3214200000000003, 2.20857, 2.
27394, 1.68135, 1.41723, 1.6332799999999998, 2.32323, 1.75873, 1.78555, 1.24074, 2.446490
0000000003, 1.9312900000000002, 2.79094, 1.8850099999999999, 2.0438400000000003, 2.836000
0000000003, 1.7393299999999998, 2.2463900000000003, 1.92313, 1.59927, 1.76145, 1.851, 3.1
07090000000004, 2.51011, 0.89991, 2.4537299999999997]

Mean absolute error:- 0.00021289617961165833
Mean squared error:- 7.079488492588257e-08
Root mean squared error:- 0.0002660730819265312
r2 Score:- 0.9999996909424064

At random state 305 the model performs very well
At random state 305
Training score is
0.9999997168305705
Predicted value is [2.49207448 2.09978238 2.79888238 1.63807311 2.20141226 2.85766526
1.86967533 2.44840888 2.67623115 2.26427373 1.94930929 1.95590956
1.73925059 3.0888916 1.84410927 1.34727929 2.67777198 1.46497653
1.88524164 2.02482936 0.99835892 2.63447757 1.859893 3.17765644
1.46171011 2.0847305 2.5099428 0.98163277 2.80742035 1.57027255] and Actual value is [

2.4920400000000003, 2.10017, 2.79832, 1.63794, 2.20173, 2.85737, 1.8698400000000002, 2.44876, 2.67585, 2.26425, 1.9493900000000002, 1.9563700000000002, 1.7393299999999998, 3.08854, 1.84408, 1.34759, 2.67782, 1.46494, 1.8850099999999999, 2.025, 0.99895, 2.6343, 1.8604, 3.17728, 1.46181, 2.08528, 2.51009, 0.98195, 2.8079099999999997, 1.57059]

Mean absolute error:- 0.0002674413258518434

Mean squared error:- 1.0188264587860002e-07

Root mean squared error:- 0.00031919061057399545

r2 Score:- 0.999999690250478

At random state 306 the model performs very well

At random state 306

Training score is

0.9999997111410142

Predicted value is [3.107088 1.78523476 3.10724871 1.42784846 2.70212665 1.80036185 1.8696936 1.88499914 2.24710475 2.2112225 0.65447686 2.32376459 1.94933157 1.86606489 1.8765888 2.8932159 2.79064065 3.05118703 1.41717023 1.57160875 2.4536406 1.6483887 1.87878397 1.73829299 2.051042 2.09021407 1.94272715 2.08474884 2.24626753 2.32131157] and Actual value is [3.10712, 1.78555, 3.1070900000000004, 1.42766, 2.70201, 1.8010099999999998, 1.8698400000000002, 1.8854099999999998, 2.24729, 2.21126, 0.6542899999999999, 2.32407, 1.9493900000000002, 1.86565, 1.8763400000000001, 2.89319, 2.79094, 3.05137, 1.41723, 1.5714, 2.453729999999997, 1.6488, 1.87877, 1.73797, 2.05125, 2.0906599999999997, 1.9429599999999998, 2.08528, 2.2463900000000003, 2.3214200000000003]

Mean absolute error:- 0.0002238954092150691

Mean squared error:- 7.480792729828136e-08

Root mean squared error:- 0.0002735103787761652

r2 Score:- 0.9999997448575377

At random state 307 the model performs very well

At random state 307

Training score is

0.9999997279629704

Predicted value is [1.94932567 2.44215228 1.7587147 1.42786443 2.20792221 1.73831253 2.61951208 1.34735592 1.87878255 3.03482776 1.79312948 1.88502201 2.24710461 3.05120039 2.0638634 1.61623894 1.80040614 0.9818075 0.67144558 1.44418694 2.84825804 1.71927984 1.83338935 2.11354854 2.00078124 1.95596525 1.92339514 1.58828033 2.67614605 2.1099939] and Actual value is [1.9493900000000002, 2.44191, 1.75873, 1.42766, 2.20857, 1.73797, 2.61955, 1.34759, 1.87877, 3.035, 1.79293, 1.8854099999999998, 2.24743, 3.05137, 2.06367, 1.6158299999999999, 1.8010099999999998, 0.98195, 0.67108, 1.44395, 2.84848, 1.7195599999999998, 1.83302, 2.1139900000000003, 2.00073, 1.9563700000000002, 1.92313, 1.58782, 2.67585, 2.11032]

Mean absolute error:- 0.0002707900467574779

Mean squared error:- 9.779795492600456e-08

Root mean squared error:- 0.0003127266456923755

r2 Score:- 0.9999996568064146

At random state 308 the model performs very well

At random state 308

Training score is

0.9999997224913453

Predicted value is [2.08470085 1.62252511 3.60180383 2.30871878 3.08883588 1.80031188 1.46505782 2.45362675 1.86966012 2.7660852 2.3230593 2.26423081 3.19104845 2.80740029 3.10720215 1.95285085 2.41451053 2.48653021 2.10998798 1.84411097 2.47493227 2.21997605 2.51766284 2.45188082 1.85104574 3.17762017 1.87878744 2.09020335 2.09970219 1.73924124] and Actual value is [2.08528, 1.62215, 3.602140000000003, 2.30919, 3.08854, 1.8010099999999998, 1.46494, 2.45372999999997, 1.8698400000000002, 2.76579, 2.32323, 2.26425, 3.1913099999999996, 2.80790999999997, 3.1070900000000004, 1.95335, 2.4148400000000003, 2.48676, 2.11032, 1.84408, 2.4748900000000003, 2.21978, 2.51767, 2.4517599999999997, 1.851, 3.17728, 1.87877, 2.0906599999999997, 2.10017, 1.7393299999999998]

Mean absolute error:- 0.0002576449549927196

Mean squared error:- 1.0101252790633011e-07

Root mean squared error:- 0.00031782468108428914

r2 Score:- 0.9999996178070114

At random state 309 the model performs very well
At random state 309
Training score is
0.9999996665038008
Predicted value is [2.11557035 3.10728539 2.82364041 2.32377444 1.95843465 2.26419301
2.24625527 1.64834813 2.45369269 2.32131056 2.76612152 1.6161814
2.24711393 0.89938554 2.23768417 1.76140466 2.50958021 2.43852716
2.86701893 2.45183548 2.84824913 2.02481566 2.32305794 3.05120968
3.10710488 0.9817737 2.75454575 0.67138466 2.20791133 3.60186583] and Actual value is [
2.1156900000000003, 3.1070900000000004, 2.82334, 2.32407, 1.95812, 2.26425, 2.246390000000
00003, 1.6488, 2.4537299999999997, 2.3214200000000003, 2.76579, 1.6158299999999999, 2.247
29, 0.89991, 2.2374099999999997, 1.76145, 2.51011, 2.43872, 2.86712, 2.4517599999999997,
2.84848, 2.025, 2.32323, 3.05137, 3.10712, 0.98195, 2.75414, 0.67108, 2.20857, 3.60214000
00000003]

Mean absolute error:- 0.00024001443843710095
Mean squared error:- 8.196276244435304e-08
Root mean squared error:- 0.00028629139428972195
r2 Score:- 0.999998074238495

At random state 310 the model performs very well
At random state 310
Training score is
0.9999997128284662
Predicted value is [1.96976892 2.53341536 2.89328505 2.32380943 2.31985107 0.89939664
2.49204643 1.58823972 2.11815223 2.74281729 1.80034199 2.83593508
1.4651158 2.46562863 1.9233946 1.84414607 1.95846518 2.51768673
2.0249433 2.06387268 1.95078897 2.45190903 2.11558449 2.76614784
1.21359512 0.67145568 1.44420999 3.19107848 1.75867861 1.85997516] and Actual value is [
1.9699400000000002, 2.5332, 2.89319, 2.32407, 2.31945, 0.89991, 2.4920400000000003, 1.587
82, 2.11773, 2.74255, 1.801009999999998, 2.8360000000000003, 1.46494, 2.4657, 1.92313, 1
.84408, 1.95812, 2.51767, 2.025179999999998, 2.06367, 1.95071, 2.451759999999997, 2.115
6900000000003, 2.76579, 1.21305, 0.67108, 1.44395, 3.191309999999996, 1.75873, 1.8604]

Mean absolute error:- 0.00024880243921074536
Mean squared error:- 8.968323167253811e-08
Root mean squared error:- 0.000299471587421141
r2 Score:- 0.999997271289598

At random state 311 the model performs very well
At random state 311
Training score is
0.999999726292332
Predicted value is [3.19107922 1.80039764 2.05102647 1.99180102 2.02484174 2.2755118
1.59567775 2.45368008 1.86609834 2.5098856 1.87875829 1.63328645
2.41453286 2.11354556 2.12377352 0.65447365 2.22004018 1.86433244
2.32131737 3.0888779 3.10711879 2.7427938 1.57036897 1.92339353
1.73795758 2.37157478 2.10995177 2.44684004 2.44846009 1.88504595] and Actual value is [
3.191309999999996, 1.801009999999998, 2.05125, 1.991720000000002, 2.025, 2.27513, 1.59
541, 2.453729999999997, 1.86565, 2.51009, 1.87877, 1.633279999999998, 2.414840000000000
3, 2.1139900000000003, 2.12367, 0.654289999999999, 2.21978, 1.86399, 2.3214200000000003,
3.08854, 3.10712, 2.74255, 1.57059, 1.92313, 1.737990000000001, 2.3711900000000004, 2.11
032, 2.4464900000000003, 2.44876, 1.885409999999998]

Mean absolute error:- 0.00024290784206594252
Mean squared error:- 8.087227607572596e-08
Root mean squared error:- 0.0002843805128269621
r2 Score:- 0.999996828901591

At random state 312 the model performs very well
At random state 312
Training score is
0.999999742546333
Predicted value is [2.32135225 1.75875744 2.02492404 2.27546948 2.539259 2.05122724
2.85759546 1.63808477 1.844174 2.37159806 2.50955009 2.5099047
2.75454264 1.87885872 1.93112225 2.766125 1.9529875 1.44421576
1.88497821 1.73834626 1.46511399 2.04407878 2.4865633 1.8335177
2.08479048 2.45185684 2.18862104 0.65455267 2.79879559 1.59589767] and Actual value is [

```
2.3214200000000003, 1.75873, 2.0251799999999998, 2.27513, 2.5394200000000002, 2.05125, 2.85737, 1.63794, 1.84408, 2.3711900000000004, 2.51011, 2.51009, 2.75414, 1.87877, 1.9312900000000002, 2.76579, 1.95335, 1.44395, 1.8854099999999998, 1.73797, 1.46494, 2.043840000000003, 2.48676, 1.83302, 2.08528, 2.4517599999999997, 2.18896, 0.6542899999999999, 2.79832, 1.59541]
```

```
Mean absolute error:- 0.00027269060078892736  
Mean squared error:- 9.728362395465435e-08  
Root mean squared error:- 0.00031190322850950796  
r2 Score:- 0.9999995723734391  
*****
```

At random state 313 the model performs very well

At random state 313

Training score is

0.999997326007439

Predicted value is [1.68153567 1.73801037 2.50990673 2.04401807 1.46509076 2.09976247
 1.6162478 2.84827484 1.79315449 2.8074263 1.62256497 1.80038203
 1.38100231 1.59894498 1.71926996 1.78529185 2.32306805 2.51766481
 1.4279132 3.10721155 2.61952516 1.83339034 2.00075947 3.08883016
 1.86610882 2.31982755 1.96974066 2.11559263 2.48659145 2.26647911] and Actual value is [1.68135, 1.7379900000000001, 2.51009, 2.0438400000000003, 1.46494, 2.10017, 1.6158299999999999, 2.84848, 1.79293, 2.8079099999999997, 1.62215, 1.8010099999999998, 1.38079, 1.59927, 1.7195599999999998, 1.78555, 2.32323, 2.51767, 1.42766, 3.107090000000004, 2.61955, 1.83302, 2.00073, 3.08854, 1.86565, 2.31945, 1.9699400000000002, 2.1156900000000003, 2.48676, 2.26646]

Mean absolute error:- 0.0002387575543505364

Mean squared error:- 8.056852541521065e-08

Root mean squared error:- 0.00028384595367066736

r2 Score:- 0.9999996500448788

At random state 314 the model performs very well

At random state 314

Training score is

0.9999997420099691

Predicted value is [2.31981184 1.84410964 2.5334363 2.49201925 2.10995509 2.59440943
 2.24182615 1.88525078 2.02487253 2.43246249 2.12505082 1.24117829
 1.87965689 1.21355087 2.11349388 0.89941471 2.23230693 2.44687421
 1.5985992 1.34733438 1.86428568 2.32131658 1.75870905 2.05106214
 3.26047201 2.44841318 2.06391646 2.48667734 1.95071915 2.02501293] and Actual value is [
 2.31945, 1.84408, 2.5332, 2.492040000000003, 2.11032, 2.5945, 2.24173, 1.8850099999999999,
 2.025, 2.43209, 2.12466, 1.24074, 1.8799599999999999, 1.21305, 2.1139900000000003, 0.8
 9991, 2.2327, 2.4464900000000003, 1.5988799999999999, 1.34759, 1.86399, 2.3214200000000000
 3, 1.75873, 2.05125, 3.26001, 2.44876, 2.06367, 2.48676, 1.95071, 2.0251799999999999]

Mean absolute error:- 0.0002600398088208259

Mean squared error:- 9.133898385778694e-08

Root mean squared error:- 0.0003022234005794173

r2 Score:- 0.9999995893831325

At random state 315 the model performs very well

At random state 315

Training score is

0.9999997049669501

Predicted value is [1.88524891 2.63450717 2.02487421 2.67618738 0.98174345 2.76612493
 1.34724459 1.41715187 2.48661402 1.95283817 1.3808661 1.79309492
 1.68424185 1.89852529 1.85099777 1.26490486 1.94924952 1.76144129
 1.59885017 2.47504814 1.80027057 1.64836946 2.5334454 3.05130121
 1.46174001 1.6332609 0.89926732 1.95593174 1.88952972 3.17769684] and Actual value is [
 1.8850099999999999, 2.6343, 2.0251799999999998, 2.67585, 0.98195, 2.76579, 1.34759, 1.417
 23, 2.48676, 1.95335, 1.38079, 1.79293, 1.68435, 1.89894, 1.851, 1.26462, 1.9493900000000
 002, 1.76145, 1.59927, 2.4748900000000003, 1.8010099999999998, 1.6488, 2.5332, 3.05137, 1
 .46181, 1.6332799999999998, 0.89991, 1.9563700000000002, 1.8893099999999998, 3.17728]

Mean absolute error:- 0.0002593648360002716

Mean squared error:= 1.0064116253207869e-07

Root mean squared error:= 0.00031723991320777825

r2 Score:= 0.9999996816027437

At random state 316 the model performs very well
At random state 316
Training score is
0.9999997378944102
Predicted value is [3.0512653 2.51752733 2.13141519 2.41451768 2.02487802 2.6344473
1.96945097 1.94935978 2.00081624 2.83596933 2.30871798 2.86702291
1.24119321 2.75456508 1.63326466 2.02498365 2.46516046 2.32306976
1.94272783 2.37158799 2.11815547 1.57037541 2.76613939 1.86973256
1.95071077 1.68434139 1.99178651 1.59584036 1.5882986 1.83349414] and Actual value is [
3.05137, 2.5173799999999997, 2.1309, 2.4148400000000003, 2.025, 2.6343, 1.9696099999999999
9, 1.9493900000000002, 2.00073, 2.8360000000000003, 2.30919, 2.86712, 1.24074, 2.75414, 1
.6332799999999998, 2.0251799999999998, 2.4653099999999997, 2.32323, 1.9429599999999998, 2
.3711900000000004, 2.11773, 1.57059, 2.76579, 1.8698400000000002, 1.95071, 1.68435, 1.991
7200000000002, 1.59541, 1.58782, 1.83302]

Mean absolute error:- 0.0002273300284342472
Mean squared error:- 7.982877425948965e-08
Root mean squared error:- 0.00028253986313348715
r2 Score:- 0.999995919388183

At random state 317 the model performs very well
At random state 317
Training score is
0.9999997294208268
Predicted value is [2.46555789 3.26043465 1.68161621 1.24123138 2.27540869 1.44421595
2.45185704 1.86970853 1.83349726 2.63449315 2.23773493 2.59440798
1.87660647 1.95076983 2.37154735 2.50994968 2.43854069 2.26647125
3.19113649 2.11555863 2.41451168 2.74282047 2.24710705 1.86611508
2.20151193 1.21368284 2.45365402 1.73806103 2.24630027 2.22002679] and Actual value is [
2.4657, 3.26001, 1.68135, 1.24074, 2.27513, 1.44395, 2.4517599999999997, 1.869840000000000
02, 1.83302, 2.6343, 2.2374099999999997, 2.5945, 1.8763400000000001, 1.95071, 2.371190000
0000004, 2.51009, 2.43872, 2.26646, 3.191309999999996, 2.1156900000000003, 2.41484000000
0003, 2.74255, 2.24743, 1.86565, 2.20173, 1.21305, 2.4537299999999997, 1.7379900000000000
1, 2.2463900000000003, 2.21978]

Mean absolute error:- 0.000240851015200394
Mean squared error:- 7.993511862081742e-08
Root mean squared error:- 0.0002827279940522647
r2 Score:- 0.999996402478272

At random state 318 the model performs very well
At random state 318
Training score is
0.9999997302921371
Predicted value is [1.94274269 1.46506515 2.80733019 1.59902063 2.11813777 1.95846225
2.50957345 3.1775587 2.22003361 0.981667 2.32376263 2.00082069
2.46554427 2.12506734 1.96968959 2.13141842 1.93111166 3.60182745
1.8895364 1.57035447 2.31970649 2.23233284 2.10996534 2.48657732
2.26419074 1.57168626 2.32130919 2.59438894 1.87876657 1.75875528] and Actual value is [
1.9429599999999998, 1.46494, 2.8079099999999997, 1.59927, 2.11773, 1.95812, 2.51011, 3.17
728, 2.21978, 0.98195, 2.32407, 2.00073, 2.4657, 2.12466, 1.9699400000000002, 2.1309, 1.9
312900000000002, 3.6021400000000003, 1.8893099999999998, 1.57059, 2.31945, 2.2327, 2.1103
2, 2.48676, 2.26425, 1.5714, 2.3214200000000003, 2.5945, 1.87877, 1.75873]

Mean absolute error:- 0.0002571127886974112
Mean squared error:- 8.618848975023585e-08
Root mean squared error:- 0.00029357876243052026
r2 Score:- 0.99999656950767

At random state 319 the model performs very well
At random state 319
Training score is
0.9999997149239811
Predicted value is [1.88524674 2.20783559 2.3237815 2.6195303 2.21123396 0.6714112
1.58823009 1.73800252 1.85105757 1.95287983 1.8441246 1.95250102
3.05114144 2.27406859 2.18863416 3.17763807 2.86695533 2.46559737
2.24625064 2.47498317 0.89937035 1.96972648 1.2410939 2.4485019
2.59440431 2.46515639 2.09022913 2.76612834 1.71919185 0.99842084] and Actual value is [

1.8850099999999999, 2.20857, 2.32407, 2.61955, 2.21126, 0.67108, 1.58782, 1.7379900000000000
001, 1.851, 1.95335, 1.84408, 1.9521, 3.05137, 2.27394, 2.18896, 3.17728, 2.86712, 2.4657
, 2.2463900000000003, 2.4748900000000003, 0.89991, 1.9699400000000002, 1.24074, 2.44876,
2.5945, 2.465309999999997, 2.090659999999997, 2.76579, 1.719559999999998, 0.99895]

Mean absolute error:- 0.00026181478728033817
Mean squared error:- 9.969718328676364e-08
Root mean squared error:- 0.00031574860773527354
r2 Score:- 0.999997145674159

At random state 320 the model performs very well

At random state 320

Training score is

0.999997254347738

Predicted value is [1.62253875 2.4750702 2.37165124 2.43245714 1.87876661 1.88957366
1.80036044 0.89936896 1.92336605 2.09032246 2.49212509 2.50964911
1.73804753 1.87664945 1.94267836 1.99175698 2.7022065 1.24113896
1.34729854 3.17765148 2.85765426 2.67620379 3.05128306 1.59890971
1.73836765 2.59439727 2.11354453 2.23776367 2.11560511 0.65454467] and Actual value is [
1.62215, 2.4748900000000003, 2.3711900000000004, 2.43209, 1.87877, 1.889309999999998, 1.
801009999999998, 0.89991, 1.92313, 2.090659999999997, 2.4920400000000003, 2.51011, 1.73
79900000000001, 1.8763400000000001, 1.942959999999998, 1.9917200000000002, 2.70201, 1.24
074, 1.34759, 3.17728, 2.85737, 2.67585, 3.05137, 1.59927, 1.73797, 2.5945, 2.11399000000
0003, 2.237409999999997, 2.1156900000000003, 0.654289999999999]

Mean absolute error:- 0.0002880971939466533

Mean squared error:- 1.0709064902030108e-07

Root mean squared error:- 0.00032724707641215234

r2 Score:- 0.999996815642902

At random state 321 the model performs very well

At random state 321

Training score is

0.999997483040785

Predicted value is [2.02492172 1.78515591 1.95292871 2.76613925 3.19114796 2.18857988
2.20788694 2.22002747 1.34722589 1.64829749 2.46552774 2.82366808
2.79876291 1.86002368 1.85101974 2.27410649 1.719238 2.24626064
3.05120302 2.1155457 2.44846457 2.44681724 2.10989977 2.3230758
1.93113895 2.24714047 1.8796463 2.51772094 2.84827651 2.75460656] and Actual value is [
2.025179999999998, 1.78555, 1.95335, 2.76579, 3.191309999999996, 2.18896, 2.20857, 2.21
978, 1.34759, 1.6488, 2.4657, 2.82334, 2.79832, 1.8604, 1.851, 2.27394, 1.71955999999999
8, 2.2463900000000003, 3.05137, 2.1156900000000003, 2.44876, 2.4464900000000003, 2.11032,
2.32323, 1.9312900000000002, 2.24729, 1.8799599999999999, 2.51767, 2.84848, 2.75414]

Mean absolute error:- 0.0002854338279770478

Mean squared error:- 1.0258164636975754e-07

Root mean squared error:- 0.000320283696696784

r2 Score:- 0.999994536790774

At random state 322 the model performs very well

At random state 322

Training score is

0.99999727209788

Predicted value is [1.87879026 2.76616687 1.73928629 2.44850048 2.02486356 2.20791158
3.05119455 2.50988613 1.57163426 2.45372367 2.24178292 1.42783435
2.63443601 2.27415197 2.11811226 2.85766517 2.43853968 1.96941686
1.7587401 1.89860292 1.97545813 2.67617277 2.51748668 2.79071144
2.12510327 2.75460647 2.53342902 2.82366864 1.9234206 2.8670381] and Actual value is [
1.87877, 2.76579, 1.739329999999998, 2.44876, 2.025, 2.20857, 3.05137, 2.51009, 1.5714,
2.453729999999997, 2.24173, 1.42766, 2.6343, 2.27394, 2.11773, 2.85737, 2.43872, 1.96960
9999999999, 1.75873, 1.89894, 1.9757, 2.67585, 2.517379999999997, 2.79094, 2.12466, 2.7
5414, 2.5332, 2.82334, 1.92313, 2.86712]

Mean absolute error:- 0.0002276073220275121

Mean squared error:- 7.321697025956492e-08

Root mean squared error:- 0.00027058634529400206

r2 Score:- 0.999995888518656

At random state 323 the model performs very well
At random state 323
Training score is
0.999999744848176
Predicted value is [2.18865833 1.59891952 2.84826658 1.96944078 1.80036458 2.61952838
2.866696203 1.69477708 2.80738859 2.08472361 1.94931544 1.87964855
2.00075444 2.26648306 2.51761323 2.12374566 2.24180534 1.68428902
1.97549653 2.85762517 2.37156318 2.44841055 1.7379997 2.438533
1.58826116 1.95592727 1.46181286 2.74279045 1.73926784 1.24116916] and Actual value is [
2.18896, 1.59927, 2.84848, 1.9696099999999999, 1.8010099999999998, 2.61955, 2.86712, 1.69
44, 2.8079099999999997, 2.08528, 1.9493900000000002, 1.8795999999999999, 2.00073, 2.26646
, 2.51767, 2.12367, 2.24173, 1.68435, 1.9757, 2.85737, 2.3711900000000004, 2.44876, 1.737
9900000000001, 2.43872, 1.58782, 1.9563700000000002, 1.46181, 2.74255, 1.7393299999999998
, 1.24074]

Mean absolute error:- 0.00023378050322269878
Mean squared error:- 8.717041498376028e-08
Root mean squared error:- 0.00029524636320158164
r2 Score:- 0.9999995575920254

At random state 324 the model performs very well
At random state 324
Training score is
0.9999997330391366

Predicted value is [3.17760161 2.11554751 2.24709256 3.08883823 2.43852712 2.09976462
2.83595336 1.6842423 1.80036243 3.03484489 1.59854964 2.85763078
2.4324299 1.42785677 1.85106029 1.95595985 1.7931392 2.41448579
1.78525813 2.32305264 2.04399346 2.24707566 2.44845076 2.20144879
1.94934998 2.21118832 1.41715859 1.57161545 1.85995181 2.12498302] and Actual value is [
3.17728, 2.1156900000000003, 2.24729, 3.08854, 2.43872, 2.10017, 2.836000000000003, 1.68
435, 1.801009999999998, 3.035, 1.5988799999999999, 2.85737, 2.43209, 1.42766, 1.851, 1.9
563700000000002, 1.79293, 2.4148400000000003, 1.78555, 2.32323, 2.0438400000000003, 2.247
43, 2.44876, 2.20173, 1.9493900000000002, 2.21126, 1.41723, 1.5714, 1.8604, 2.12466]

Mean absolute error:- 0.00024713202963419316
Mean squared error:- 7.955972653339224e-08
Root mean squared error:- 0.0002820633378044588
r2 Score:- 0.999999639518569

At random state 325 the model performs very well
At random state 325
Training score is
0.9999997303495324

Predicted value is [2.11553923 1.84413907 2.44836098 2.1099688 2.79889859 2.51756392
1.87665884 1.93120044 2.61949554 0.98169349 1.86969336 3.08884772
1.2136482 2.86697388 2.75456695 2.63447732 1.83344322 2.80737659
1.89857755 1.57166084 1.59896523 1.68160303 2.49198749 2.11345381
1.87967384 1.61622963 3.10722772 2.45360119 2.04399731 2.22004142] and Actual value is [
2.115690000000003, 1.84408, 2.44876, 2.11032, 2.79832, 2.51767, 1.876340000000001, 1.93
12900000000002, 2.61955, 0.98195, 1.869840000000002, 3.08854, 1.21305, 2.86712, 2.75414,
2.6343, 1.83302, 2.807909999999997, 1.89894, 1.5714, 1.59927, 1.68135, 2.4920400000000000
3, 2.113990000000003, 1.8799599999999999, 1.6158299999999999, 3.1070900000000004, 2.4537
29999999997, 2.0438400000000003, 2.21978]

Mean absolute error:- 0.0002754836437100838
Mean squared error:- 1.0076039410230104e-07
Root mean squared error:- 0.000317427777736237
r2 Score:- 0.9999996378437341

At random state 326 the model performs very well
At random state 326
Training score is
0.9999997199919665

Predicted value is [2.10994513 2.61949139 2.75463021 2.84827619 2.12513653 0.67140619
2.44687775 1.87662032 3.0512201 2.27415225 1.79312458 2.89331518
1.97543428 1.75334675 1.73797067 1.9525849 1.38095118 2.85763659
1.63335477 1.99185962 2.76620043 2.45373969 1.87879408 1.59905725
1.85112782 1.89861327 2.08481458 1.75876931 1.92346003 1.83343668] and Actual value is [
2.11032, 2.61955, 2.75414, 2.84848, 2.12466, 0.67108, 2.446490000000003, 1.876340000000000

001, 3.05137, 2.27394, 1.79293, 2.89319, 1.9757, 1.7536, 1.7379900000000001, 1.9521, 1.38079, 2.85737, 1.6332799999999998, 1.9917200000000002, 2.76579, 2.4537299999999997, 1.87877, 1.59927, 1.851, 1.89894, 2.08528, 1.75873, 1.92313, 1.83302]

Mean absolute error:- 0.00024361675826598908
Mean squared error:- 8.132740714548155e-08
Root mean squared error:- 0.0002851796050657928
r2 Score:- 0.9999996921968615

At random state 327 the model performs very well

At random state 327

Training score is

0.999999727683162

Predicted value is [1.97549265 1.8643435 2.20145417 1.88961389 2.44214245 1.80035249 2.43853204 2.32129371 0.65445344 2.50992245 2.09977279 2.86702212 1.46174137 2.08473543 2.67620935 2.47498101 2.75455212 1.95255861 3.10739317 1.92336343 1.84411 2.06389648 1.85105409 1.85995749 3.10712829 2.44847719 1.73926596 2.11002897 0.89933532 1.94272423] and Actual value is [1.9757, 1.86399, 2.20173, 1.8893099999999998, 2.44191, 1.8010099999999998, 2.43872, 2.3214200000000003, 0.6542899999999999, 2.51009, 2.10017, 2.86712, 1.46181, 2.08528, 2.67585, 2.4748900000000003, 2.75414, 1.9521, 3.1070900000000004, 1.92313, 1.84408, 2.06367, 1.851, 1.8604, 3.10712, 2.44876, 1.7393299999999998, 2.11032, 0.89991, 1.9429599999999998]

Mean absolute error:- 0.00026171545966350294

Mean squared error:- 9.556843959380979e-08

Root mean squared error:- 0.00030914145563772224

r2 Score:- 0.9999996677931107

At random state 328 the model performs very well

At random state 328

Training score is

0.9999997240377618

Predicted value is [0.89939468 1.41720223 1.44414763 1.87662831 1.95254357 1.24115251 3.03481232 1.69488365 3.6018245 1.95842468 2.31983915 1.78526126 2.08477308 2.1135034 2.02497766 2.63444991 2.85759879 2.79881628 1.42782028 2.11556844 2.27546946 1.59898199 1.76147899 2.23230251 2.67619049 2.80745683 2.30875381 3.10735226 2.79074321 2.04397857] and Actual value is [0.89991, 1.41723, 1.44395, 1.8763400000000001, 1.9521, 1.24074, 3.035, 1.6944, 3.60214000 00000003, 1.95812, 2.31945, 1.78555, 2.08528, 2.1139900000000003, 2.0251799999999998, 2.6343, 2.85737, 2.79832, 1.42766, 2.1156900000000003, 2.27513, 1.59927, 1.76145, 2.2327, 2.67585, 2.8079099999999997, 2.30919, 3.1070900000000004, 2.79094, 2.0438400000000003]

Mean absolute error:- 0.0003029547533573466

Mean squared error:- 1.1144403315441914e-07

Root mean squared error:- 0.0003338323428825001

r2 Score:- 0.999999698275613

At random state 329 the model performs very well

At random state 329

Training score is

0.999999737626069

Predicted value is [2.26649386 0.65452631 2.74275775 2.32307931 1.88531967 2.27547782 1.9584077 2.7545254 2.30872511 1.80037668 2.10999678 2.61957299 1.87965062 1.8660578 1.92338508 1.7392448 2.23227084 0.8993826 2.80739152 1.73834289 2.32373209 1.8895524 2.50988753 3.03480316 1.63327477 1.444146 2.53917974 2.24712502 2.02493858 1.5703393] and Actual value is [2.26646, 0.6542899999999999, 2.74255, 2.32323, 1.8850099999999999, 2.27513, 1.95812, 2.75414, 2.30919, 1.801009999999998, 2.11032, 2.61955, 1.8799599999999999, 1.86565, 1.92313, 1.7393299999999998, 2.2327, 0.89991, 2.8079099999999997, 1.73797, 2.32407, 1.8893099999999998, 2.51009, 3.035, 1.6332799999999998, 1.44395, 2.5394200000000002, 2.24729, 2.0251799999999998, 1.57059]

Mean absolute error:- 0.0002795740148403188

Mean squared error:- 9.98328595688896e-08

Root mean squared error:- 0.0003159633775754551

r2 Score:- 0.9999996309836303

At random state 330 the model performs very well

At random state 330
Training score is
0.9999997237130591
Predicted value is [2.45366549 1.62258535 2.13141432 2.32133626 2.5943988 1.59575277
1.94940402 1.44423438 2.26422844 2.31973945 1.64836659 2.8670949
2.51768713 1.63811363 2.32306499 1.42790139 1.63327585 1.87970234
2.1886629 3.26046792 2.4651509 3.19113049 2.79882756 2.44849402
1.87883199 1.95851022 1.73929384 1.84415965 1.61619357 1.92342341] and Actual value is [
2.4537299999999997, 1.62215, 2.1309, 2.3214200000000003, 2.5945, 1.59541, 1.949390000000000
002, 1.44395, 2.26425, 2.31945, 1.6488, 2.86712, 2.51767, 1.63794, 2.32323, 1.42766, 1.63
32799999999998, 1.8799599999999999, 2.18896, 3.26001, 2.4653099999999997, 3.191309999999999
996, 2.79832, 2.44876, 1.87877, 1.95812, 1.7393299999999998, 1.84408, 1.6158299999999999,
1.92313]

Mean absolute error:- 0.00021869884218888024
Mean squared error:- 7.316651355228486e-08
Root mean squared error:- 0.0002704930933541277
r2 Score:- 0.9999996937310763

At random state 331 the model performs very well
At random state 331
Training score is
0.9999997129096877

Predicted value is [1.7852567 1.21361658 2.835959 1.57038065 1.95071343 1.59897844
0.67141517 1.84418828 2.75454919 2.41448231 2.67776056 2.85761786
2.84825713 1.87967999 1.96966532 1.73931294 2.06396394 2.24708663
1.94270848 1.63325459 2.24705854 2.48659893 2.1181136 2.04405819
1.46506879 2.59439988 1.76146086 2.49197106 2.12505931 2.11552597] and Actual value is [
1.78555, 1.21305, 2.8360000000000003, 1.57059, 1.95071, 1.59927, 0.67108, 1.84408, 2.7541
4, 2.4148400000000003, 2.67782, 2.85737, 2.84848, 1.8799599999999999, 1.9699400000000002,
1.7393299999999998, 2.06367, 2.24729, 1.9429599999999998, 1.6332799999999998, 2.24743, 2.
48676, 2.11773, 2.0438400000000003, 1.46494, 2.5945, 1.76145, 2.4920400000000003, 2.12466
, 2.1156900000000003]

Mean absolute error:- 0.00021660208963216374
Mean squared error:- 6.646549164433799e-08
Root mean squared error:- 0.00025780902165040305
r2 Score:- 0.9999997375820646

At random state 332 the model performs very well
At random state 332
Training score is
0.999999739780924

Predicted value is [2.13138587 2.74281739 2.79894245 2.11022001 1.44418954 1.83357924
0.67137782 1.85993307 1.61616318 2.21122531 2.08475684 2.46517835
1.95596313 2.23779039 0.99844485 2.44220476 1.99177558 1.34727909
1.21368676 1.88531086 1.93114643 1.59580779 2.59438479 1.88497684
1.46173387 2.23233951 2.24197406 2.63453458 2.51753764 3.10708019] and Actual value is [
2.1309, 2.74255, 2.79832, 2.11032, 1.44395, 1.83302, 0.67108, 1.8604, 1.615829999999999,
2.21126, 2.08528, 2.4653099999999997, 1.9563700000000002, 2.2374099999999997, 0.99895, 2.
44191, 1.9917200000000002, 1.34759, 1.21305, 1.8850099999999999, 1.9312900000000002, 1.59
541, 2.5945, 1.8854099999999998, 1.46181, 2.2327, 2.24173, 2.6343, 2.5173799999999997, 3.
10712]

Mean absolute error:- 0.0003051881550758861
Mean squared error:- 1.2298906412389126e-07
Root mean squared error:- 0.00035069796709403844
r2 Score:- 0.9999995854979783

At random state 333 the model performs very well
At random state 333
Training score is
0.9999997110900738

Predicted value is [1.87967658 1.57033877 2.23772605 2.46559062 1.21356519 1.95296966
2.32307442 1.63811679 2.21123928 1.73927453 2.47497904 2.7907181
2.04403322 2.83597553 1.62256313 1.87880396 3.26047408 3.10727509
2.43856557 1.73797708 2.41452028 2.12504252 1.68429995 2.23235458
2.31977428 2.18866336 2.43246102 2.8932456 1.46508388 0.98173652] and Actual value is [
1.8799599999999999, 1.57059, 2.2374099999999997, 2.4657, 1.21305, 1.95335, 2.32323, 1.637

94, 2.21126, 1.7393299999999998, 2.4748900000000003, 2.79094, 2.0438400000000003, 2.83600
0000000003, 1.62215, 1.87877, 3.26001, 3.1070900000000004, 2.43872, 1.7379900000000001,
2.4148400000000003, 2.12466, 1.68435, 2.2327, 2.31945, 2.18896, 2.43209, 2.89319, 1.46494
, 0.98195]

Mean absolute error:- 0.00021863491289425552
Mean squared error:- 6.784890473018499e-08
Root mean squared error:- 0.00026047822314002563
r2 Score:- 0.999997586921386

At random state 334 the model performs very well

At random state 334

Training score is

0.999997258928818

Predicted value is [1.58822538 2.20786831 0.65446006 0.98179799 2.31974206 1.64835974
1.86001297 1.85102563 1.44414026 1.78521713 1.8003106 1.57154759
1.59856385 3.60186964 2.46515516 3.10707882 1.34727533 1.94925416
2.48657172 1.95284416 1.86966101 2.79875773 2.113555 1.94267813
2.50958171 2.51749752 1.71921407 2.74281727 1.68155832 2.27544182] and Actual value is [
1.58782, 2.20857, 0.6542899999999999, 0.98195, 2.31945, 1.6488, 1.8604, 1.851, 1.44395, 1
.78555, 1.8010099999999998, 1.5714, 1.5988799999999999, 3.6021400000000003, 2.465309999999
99997, 3.10712, 1.34759, 1.9493900000000002, 2.48676, 1.95335, 1.8698400000000002, 2.7983
2, 2.1139900000000003, 1.9429599999999998, 2.51011, 2.5173799999999997, 1.7195599999999999
8, 2.74255, 1.68135, 2.27513]

Mean absolute error:- 0.00029947129525905727

Mean squared error:- 1.173571918011293e-07

Root mean squared error:- 0.0003425743595208627

r2 Score:- 0.99999672309675

At random state 335 the model performs very well

At random state 335

Training score is

0.999997436424078

Predicted value is [2.50955028 2.50986435 2.02477767 1.97541646 2.53918913 2.46551927
1.75867883 2.32130405 2.41448209 1.5989243 1.63805334 2.85759277
1.85102224 2.48655073 2.20149367 2.18860199 1.86965734 1.95072113
0.67138251 1.88497787 1.34728083 1.95591813 2.02489562 2.82362194
2.46511898 2.08471138 2.20786685 2.80740037 1.87658583 3.10703932] and Actual value is [
2.51011, 2.51009, 2.025, 1.9757, 2.5394200000000002, 2.4657, 1.75873, 2.3214200000000003,
2.4148400000000003, 1.59927, 1.63794, 2.85737, 1.851, 2.48676, 2.20173, 2.18896, 1.869840
0000000002, 1.95071, 0.67108, 1.8854099999999998, 1.34759, 1.9563700000000002, 2.02517999
99999998, 2.82334, 2.4653099999999997, 2.08528, 2.20857, 2.8079099999999997, 1.8763400000
00001, 3.10712]

Mean absolute error:- 0.00027634183256044126

Mean squared error:- 1.0290757296528014e-07

Root mean squared error:- 0.000320792102404782

r2 Score:- 0.999995675283634

At random state 336 the model performs very well

At random state 336

Training score is

0.999997394044631

Predicted value is [2.76618014 1.95595458 3.10712012 1.92339049 2.05110766 1.86971319
1.78523524 1.63322267 2.23232643 2.37158159 2.0248982 2.70217199
1.71931243 1.59901295 2.8932446 1.73798098 2.41453248 1.69484062
2.11814005 2.63444328 1.73836664 2.67620644 1.84414334 1.75875055
1.57166287 2.44218609 2.44688236 1.58828826 1.24120648 2.21124856] and Actual value is [
2.76579, 1.9563700000000002, 3.10712, 1.92313, 2.05125, 1.8698400000000002, 1.78555, 1.63
32799999999998, 2.2327, 2.3711900000000004, 2.025, 2.70201, 1.7195599999999998, 1.59927,
2.89319, 1.7379900000000001, 2.4148400000000003, 1.6944, 2.11773, 2.6343, 1.73797, 2.6758
5, 1.84408, 1.75873, 1.5714, 2.44191, 2.4464900000000003, 1.58782, 1.24074, 2.21126]

Mean absolute error:- 0.00024401707250731134

Mean squared error:- 8.312405397264881e-08

Root mean squared error:- 0.0002883124242426067

r2 Score:- 0.999995989378059

At random state 337 the model performs very well
At random state 337
Training score is
0.9999997568542401
Predicted value is [1.95072826 2.49201534 2.12507242 1.63810512 2.13140989 1.86611633
2.21126267 1.7379224 1.46505199 2.7545909 1.73930165 1.9311374
1.85109528 2.08480712 2.02489417 2.32378647 1.571681 2.12380842
2.44221097 2.11355227 2.18867191 1.79312161 1.75333452 2.27416538
1.95300722 2.70216858 3.08889094 2.22006147 2.06392215 2.30872962] and Actual value is [
1.95071, 2.4920400000000003, 2.12466, 1.63794, 2.1309, 1.86565, 2.21126, 1.7379900000000000
01, 1.46494, 2.75414, 1.7393299999999998, 1.9312900000000002, 1.851, 2.08528, 2.025, 2.32
407, 1.5714, 2.12367, 2.44191, 2.1139900000000003, 2.18896, 1.79293, 1.7536, 2.27394, 1.9
5335, 2.70201, 3.08854, 2.21978, 2.06367, 2.30919]

Mean absolute error:- 0.00024477628597086763
Mean squared error:- 8.288016699483918e-08
Root mean squared error:- 0.00028788915748051224
r2 Score:- 0.9999993399659699

At random state 338 the model performs very well
At random state 338
Training score is
0.9999997163968477
Predicted value is [1.59587786 1.88964968 0.6546601 2.24712743 2.46513072 1.94270238
1.21361486 2.41448242 3.19099798 2.26646542 1.24119764 2.04403277
2.49199165 2.18859295 1.63812164 1.73833404 1.87877231 3.03478104
3.05108996 2.11556593 3.10729091 1.69492359 2.20791577 2.09027716
1.88503028 1.68159769 1.85112073 2.83588126 2.48649266 1.75335651] and Actual value is [
1.59541, 1.8893099999999998, 0.6542899999999999, 2.24743, 2.4653099999999997, 1.942959999
9999998, 1.21305, 2.4148400000000003, 3.1913099999999996, 2.26646, 1.24074, 2.04384000000
00003, 2.4920400000000003, 2.18896, 1.63794, 1.73797, 1.87877, 3.035, 3.05137, 2.11569000
0000003, 3.1070900000000004, 1.6944, 2.20857, 2.0906599999999997, 1.8854099999999998, 1.
68135, 1.851, 2.8360000000000003, 2.48676, 1.7536]

Mean absolute error:- 0.00028443756891109636
Mean squared error:- 1.050209418987706e-07
Root mean squared error:- 0.00032406934736067003
r2 Score:- 0.99999686018195

At random state 339 the model performs very well
At random state 339
Training score is
0.9999997202404466
Predicted value is [2.43246444 1.95848013 1.7383439 2.37158506 1.83347276 1.63323831
1.75873171 1.94269564 1.88957171 2.48659752 2.24627693 2.32305446
1.24117369 0.98176284 1.9917658 2.85761974 2.11356399 2.82363731
1.949309 2.08477039 1.85109596 3.60185964 2.09981371 1.95071062
1.89858939 2.24711877 3.19113444 1.71923901 3.2604506 1.59577221] and Actual value is [
2.43209, 1.95812, 1.73797, 2.371190000000004, 1.83302, 1.6332799999999998, 1.75873, 1.94
29599999999998, 1.8893099999999998, 2.48676, 2.2463900000000003, 2.32323, 1.24074, 0.9819
5, 1.9917200000000002, 2.85737, 2.1139900000000003, 2.82334, 1.9493900000000002, 2.08528,
1.851, 3.602140000000003, 2.10017, 1.95071, 1.89894, 2.24743, 3.1913099999999996, 1.7195
599999999998, 3.26001, 1.59541]

Mean absolute error:- 0.0002633869312121691
Mean squared error:- 8.994483356881341e-08
Root mean squared error:- 0.0002999080418541881
r2 Score:- 0.999997144877769

At random state 340 the model performs very well
At random state 340
Training score is
0.9999997549815399
Predicted value is [1.73797115 2.30871983 1.95069847 2.13137711 2.59441807 1.68430128
1.7587348 2.43246087 2.22005716 1.59896139 2.85765952 2.5174863
2.02489155 2.67622063 0.99842884 1.95842269 1.34733812 2.27410088
2.11352803 2.08477746 1.86427361 2.32380978 2.24633419 1.6225833
2.45363339 2.247082 2.7545747 1.88960918 1.26498848 2.41451814] and Actual value is [

1.7379900000000001, 2.30919, 1.95071, 2.1309, 2.5945, 1.68435, 1.75873, 2.43209, 2.21978, 1.59927, 2.85737, 2.5173799999999997, 2.025, 2.67585, 0.99895, 1.95812, 1.34759, 2.27394, 2.1139900000000003, 2.08528, 1.86399, 2.32407, 2.2463900000000003, 1.62215, 2.4537299999999997, 2.24743, 2.75414, 1.8893099999999998, 1.26462, 2.4148400000000003]

Mean absolute error:- 0.0002682507683143931

Mean squared error:- 9.726502335850742e-08

Root mean squared error:- 0.00031187340918793863

r2 Score:- 0.9999994950986919

At random state 341 the model performs very well

At random state 341

Training score is

0.9999997220503227

Predicted value is [2.84827292 3.08885571 1.96942349 2.24632558 2.00080857 0.98175348 1.59861031 2.32375845 1.8661042 2.438567 2.18863941 1.95596356 1.5716526 2.45368098 1.97545921 2.46513801 2.13137622 1.69484641 1.88960954 3.19111529 2.12378143 2.50988176 2.05106893 2.23232837 2.74278452 3.17759265 1.21356795 1.42781911 2.12509117 1.68431576] and Actual value is [2.84848, 3.08854, 1.9696099999999999, 2.2463900000000003, 2.00073, 0.98195, 1.5988799999999999, 2.32407, 1.86565, 2.43872, 2.18896, 1.9563700000000002, 1.5714, 2.4537299999999997, 1.9757, 2.4653099999999997, 2.1309, 1.6944, 1.8893099999999998, 3.1913099999999996, 2.12367, 2.51009, 2.05125, 2.2327, 2.74255, 3.17728, 1.21305, 1.42766, 2.12466, 1.68435]

Mean absolute error:- 0.0002552526190044165

Mean squared error:- 8.204412249866934e-08

Root mean squared error:- 0.0002864334521292325

r2 Score:- 0.9999997076224554

At random state 342 the model performs very well

At random state 342

Training score is

0.9999997260847844

Predicted value is [2.26428776 1.86969772 2.21120934 1.9525399 2.53342834 1.59858758 2.48664922 2.67620498 2.2665152 2.44681808 2.12373689 1.38096048 1.63325114 2.51769582 2.4656523 0.89937824 2.53918954 1.24113236 2.37160416 2.61955575 1.95073153 2.32132452 1.69485916 1.73928212 2.23767996 1.68426007 2.82363643 1.73832756 1.85995868 2.32310546] and Actual value is [2.26425, 1.8698400000000002, 2.21126, 1.9521, 2.5332, 1.5988799999999999, 2.48676, 2.67585, 2.26646, 2.4464900000000003, 2.12367, 1.38079, 1.6332799999999998, 2.51767, 2.4657, 0.89991, 2.5394200000000002, 1.24074, 2.3711900000000004, 2.61955, 1.95071, 2.3214200000000003, 1.6944, 1.7393299999999998, 2.2374099999999997, 1.68435, 2.82334, 1.73797, 1.8604, 2.32323]

Mean absolute error:- 0.00020528023511154532

Mean squared error:- 6.77568442442685e-08

Root mean squared error:- 0.00026030144879402516

r2 Score:- 0.9999996747977078

At random state 343 the model performs very well

At random state 343

Training score is

0.9999997080952082

Predicted value is [2.59444714 1.84416323 2.02486702 1.86612263 2.05109301 0.99841324 3.17771301 2.21126642 2.53345712 1.9427182 2.53925093 2.0440314 2.44222709 1.63810447 1.6815351 2.63450642 2.7545786 2.70223454 2.44688143 2.79886044 0.65440863 2.27414136 1.76145937 2.23239685 1.57032962 2.83604907 1.96941461 2.85772484 2.43855757 2.37157563] and Actual value is [2.5945, 1.84408, 2.025, 1.86565, 2.05125, 0.99895, 3.17728, 2.21126, 2.5332, 1.9429599999999998, 2.5394200000000002, 2.0438400000000003, 2.44191, 1.63794, 1.68135, 2.6343, 2.75414, 2.70201, 2.4464900000000003, 2.79832, 0.6542899999999999, 2.27394, 1.76145, 2.2327, 1.57059, 2.8360000000000003, 1.9696099999999999, 2.85737, 2.43872, 2.3711900000000004]

Mean absolute error:- 0.00024141965292166315

Mean squared error:- 7.964698575312437e-08

Root mean squared error:- 0.00028221797560241333

r2 Score:- 0.9999997324580485

At random state 344 the model performs very well
At random state 344
Training score is
0.9999997183208446
Predicted value is [2.63448355 1.88525492 2.5175474 1.87879144 2.89323288 1.87967415
1.24115799 2.24714411 2.74282307 2.1886903 1.8985469 2.00077449
3.17764121 1.57162872 2.08474643 1.80036714 2.0248256 2.51764568
3.05130361 2.37160518 2.44682237 2.43245766 2.86705428 0.98174008
1.41718925 2.47501289 2.44219714 2.67777912 1.21361044 1.73926947] and Actual value is [
2.6343, 1.8850099999999999, 2.5173799999999997, 1.87877, 2.89319, 1.8799599999999999, 1.2
4074, 2.24743, 2.74255, 2.18896, 1.89894, 2.00073, 3.17728, 1.5714, 2.08528, 1.8010099999
999998, 2.025, 2.51767, 3.05137, 2.3711900000000004, 2.4464900000000003, 2.43209, 2.86712
, 0.98195, 1.41723, 2.4748900000000003, 2.44191, 2.67782, 1.21305, 1.7393299999999998]

Mean absolute error:- 0.00023884097946420547
Mean squared error:- 8.557265304751382e-08
Root mean squared error:- 0.00029252803805364337
r2 Score:- 0.9999997153458797

At random state 345 the model performs very well
At random state 345
Training score is
0.9999996970471615
Predicted value is [1.86442391 2.11559238 3.08890564 1.99179553 3.10714862 2.12379535
2.06396982 1.86613087 2.09979407 2.53916259 2.63445536 2.89328651
1.96977054 1.87965438 2.2111986 2.85766435 2.44684243 1.59897741
2.41450556 1.88964338 3.10729926 0.67150911 2.51744654 2.31994891
3.60178868 1.84418253 2.11811848 1.85109568 1.21361654 2.3213119] and Actual value is [
1.86399, 2.1156900000000003, 3.08854, 1.9917200000000002, 3.10712, 2.12367, 2.06367, 1.86
565, 2.10017, 2.5394200000000002, 2.6343, 2.89319, 1.9699400000000002, 1.8799599999999999
, 2.21126, 2.85737, 2.4464900000000003, 1.59927, 2.4148400000000003, 1.8893099999999998,
3.1070900000000004, 0.67108, 2.5173799999999997, 2.31945, 3.6021400000000003, 1.84408, 2.
11773, 1.851, 1.21305, 2.3214200000000003]

Mean absolute error:- 0.0002584234786555043
Mean squared error:- 8.897229042650718e-08
Root mean squared error:- 0.00029828223283747085
r2 Score:- 0.9999997407076366

At random state 346 the model performs very well
At random state 346
Training score is
0.9999997215000034
Predicted value is [1.63326942 2.83594822 2.46560348 2.67617193 2.70214895 0.65449388
2.75455622 2.08478236 1.73798243 3.03483672 2.4468226 2.05106888
1.62256738 2.24710598 1.95844013 2.50962407 2.20148869 1.4278297
1.94273009 1.9918007 0.89941317 2.06390654 2.79067951 1.41714832
1.87657636 2.20795134 1.46172003 2.02486336 1.95251956 1.88526223] and Actual value is [
1.633279999999998, 2.8360000000000003, 2.4657, 2.67585, 2.70201, 0.6542899999999999, 2.7
5414, 2.08528, 1.7379900000000001, 3.035, 2.4464900000000003, 2.05125, 1.62215, 2.24743,
1.95812, 2.51011, 2.20173, 1.42766, 1.942959999999998, 1.9917200000000002, 0.89991, 2.06
367, 2.79094, 1.41723, 1.8763400000000001, 2.20857, 1.46181, 2.025, 1.9521, 1.8850099999
99999]

Mean absolute error:- 0.00025067007237393376
Mean squared error:- 8.713967466240404e-08
Root mean squared error:- 0.00029519429984741245
r2 Score:- 0.9999997104716826

At random state 347 the model performs very well
At random state 347
Training score is
0.9999997381419894
Predicted value is [2.06398737 1.73838904 2.45354558 2.43249616 2.59436263 2.23769075
1.94274387 2.61952765 2.46517114 2.53915688 2.44836398 2.45189393
1.58829922 2.11348363 2.70217286 2.12377741 2.05105555 2.24709891
2.32131057 1.88526022 1.75872616 2.79070559 2.27411782 1.86428014
1.57171956 1.85992067 1.97552449 2.44690259 2.79885483 3.60176747] and Actual value is [
2.06367, 1.73797, 2.453729999999997, 2.43209, 2.5945, 2.237409999999997, 1.942959999999

9998, 2.61955, 2.4653099999999997, 2.5394200000000002, 2.44876, 2.4517599999999997, 1.58782, 2.1139900000000003, 2.70201, 2.12367, 2.05125, 2.24729, 2.3214200000000003, 1.885009999999999, 1.75873, 2.79094, 2.27394, 1.86399, 1.5714, 1.8604, 1.9757, 2.4464900000000003, 2.79832, 3.6021400000000003]

Mean absolute error:- 0.00026390411770522705
Mean squared error:- 8.95000816401879e-08
Root mean squared error:- 0.00029916564247952656
r2 Score:- 0.9999994951256089

At random state 348 the model performs very well

At random state 348

Training score is

0.9999997492235417

Predicted value is [2.37158253 2.7988028 2.82363383 2.09030272 2.24184812 2.24631274 2.32378566 2.86703901 2.0440468 2.22004257 2.32133553 1.38094487 1.87663345 2.27544647 1.73929196 2.67617477 2.11558652 1.588288 2.48663746 2.13140254 1.73798173 2.51768741 2.21125037 1.34732707 2.05112516 2.26647584 2.50961721 2.11354887 1.84413758 1.62258766] and Actual value is [2.3711900000000004, 2.79832, 2.82334, 2.0906599999999997, 2.24173, 2.2463900000000003, 2.32407, 2.86712, 2.0438400000000003, 2.21978, 2.3214200000000003, 1.38079, 1.8763400000000001, 2.27513, 1.7393299999999998, 2.67585, 2.1156900000000003, 1.58782, 2.48676, 2.1309, 1.7379900000000001, 2.51767, 2.21126, 1.34759, 2.05125, 2.26646, 2.51011, 2.1139900000000003, 1.84408, 1.62215]

Mean absolute error:- 0.0002277742856019523

Mean squared error:- 7.865114001852388e-08

Root mean squared error:- 0.00028044810574957336

r2 Score:- 0.9999994834144819

At random state 349 the model performs very well

At random state 349

Training score is

0.9999997106237379

Predicted value is [2.11558296 2.89318932 1.71925961 2.50988877 2.4651498 2.09979765 1.64838888 2.125046 1.89858485 0.89943266 2.27410271 3.03486877 2.83597784 1.63810747 2.70214799 2.13139073 1.73928737 1.86969819 2.53922693 2.44683803 1.88956058 1.21358325 1.68432045 1.79314112 1.95846457 1.85110678 2.30872177 0.67140722 1.75873272 3.17761847] and Actual value is [2.1156900000000003, 2.89319, 1.7195599999999998, 2.51009, 2.4653099999999997, 2.10017, 1.6488, 2.12466, 1.89894, 0.89991, 2.27394, 3.035, 2.8360000000000003, 1.63794, 2.70201, 2.1309, 1.7393299999999998, 1.8698400000000002, 2.5394200000000002, 2.4464900000000003, 1.8930999999999998, 1.21305, 1.68435, 1.79293, 1.95812, 1.851, 2.30919, 0.67108, 1.75873, 3.17728]

Mean absolute error:- 0.00024072764004215246

Mean squared error:- 8.1817044851039e-08

Root mean squared error:- 0.00028603678933144074

r2 Score:- 0.9999997490725937

At random state 350 the model performs very well

At random state 350

Training score is

0.9999997409782317

Predicted value is [2.50961491 2.02482049 3.26045888 2.27543259 2.31979635 2.82363937 3.05126171 1.88499978 2.46560316 1.89853817 2.09976305 1.88523232 1.86427453 3.10727539 1.85107017 1.59893554 2.4536355 1.26493549 1.73925268 2.44847548 1.93107869 2.30872824 1.95596941 2.43853797 2.45188422 1.59855831 2.00076105 1.83338095 2.26647545 2.24710157] and Actual value is [2.51011, 2.025, 3.26001, 2.27513, 2.31945, 2.82334, 3.05137, 1.8854099999999998, 2.4657, 1.89894, 2.10017, 1.885009999999999, 1.86399, 3.1070900000000004, 1.851, 1.59927, 2.4537299999999997, 1.26462, 1.7393299999999998, 2.44876, 1.9312900000000002, 2.30919, 1.9563700000000002, 2.43872, 2.4517599999999997, 1.5988799999999999, 2.00073, 1.83302, 2.26646, 2.24729]

Mean absolute error:- 0.0002554033817490161

Mean squared error:- 8.369206201757178e-08

Root mean squared error:- 0.00028929580366395186

r2 Score:- 0.9999995944165402

At random state 351 the model performs very well

At random state 351

Training score is

0.9999997328915476

Predicted value is [2.32131395 2.8576478 2.41449142 2.45361732 1.86426175 2.86700087
2.44844015 2.79879377 2.24710353 3.05125266 1.71924015 1.75868555
2.08471339 1.57161699 2.27406789 2.26644382 2.30872099 2.00073093
2.24706164 2.20793428 2.76612213 1.57033063 2.11554379 1.96967313
1.75335582 1.95290641 1.95072655 0.65444976 2.43241083 2.89319648] and Actual value is [
2.3214200000000003, 2.85737, 2.4148400000000003, 2.4537299999999997, 1.86399, 2.86712, 2.
44876, 2.79832, 2.24729, 3.05137, 1.71959999999998, 1.75873, 2.08528, 1.5714, 2.27394,
2.26646, 2.30919, 2.00073, 2.24743, 2.20857, 2.76579, 1.57059, 2.1156900000000003, 1.9699
400000000002, 1.7536, 1.95335, 1.95071, 0.654289999999999, 2.43209, 2.89319]

Mean absolute error:- 0.00024317907713822622

Mean squared error:- 8.633818018337688e-08

Root mean squared error:- 0.0002938335926734329

r2 Score:- 0.9999996393117088

At random state 352 the model performs very well

At random state 352

Training score is

0.9999997423947774

Predicted value is [2.83599864 2.05106396 2.46556732 1.8895253 2.44220268 1.94936689
1.73831129 2.51767783 1.34733498 2.27415823 2.75456159 3.17762231
2.50959971 2.80740083 3.03487472 2.44687405 2.20794922 1.75871083
1.92340396 1.63325489 1.80041821 2.79071068 2.06383957 2.32307564
2.79877526 1.89856032 1.61620277 1.64834667 2.45184865 3.10724514] and Actual value is [
2.8360000000000003, 2.05125, 2.4657, 1.8893099999999998, 2.44191, 1.9493900000000002, 1.7
3797, 2.51767, 1.34759, 2.27394, 2.75414, 3.17728, 2.51011, 2.807909999999997, 3.035, 2.
4464900000000003, 2.20857, 1.75873, 1.92313, 1.6332799999999998, 1.8010099999999998, 2.79
094, 2.06367, 2.32323, 2.79832, 1.89894, 1.615829999999999, 1.6488, 2.451759999999997,
3.1070900000000004]

Mean absolute error:- 0.0002651711994811512

Mean squared error:- 1.0121167747669206e-07

Root mean squared error:- 0.0003181378277990407

r2 Score:- 0.9999995777610521

At random state 353 the model performs very well

At random state 353

Training score is

0.9999997505387095

Predicted value is [2.49201077 2.06385838 2.21125142 2.09976719 1.38093727 1.85105242
2.13136827 1.61625539 2.67781275 2.22003955 2.12379131 2.2642203
2.10995228 1.4650492 1.63813369 1.88958897 2.51768258 2.11562451
1.86005438 2.27413644 1.75336867 1.80040424 3.10726056 1.87876277
2.23768471 2.75456029 1.57163091 2.4484554 2.20790548 2.51749934] and Actual value is [
2.4920400000000003, 2.06367, 2.21126, 2.10017, 1.38079, 1.851, 2.1309, 1.615829999999999
, 2.67782, 2.21978, 2.12367, 2.26425, 2.11032, 1.46494, 1.63794, 1.889309999999998, 2.51
767, 2.1156900000000003, 1.8604, 2.27394, 1.7536, 1.801009999999998, 3.1070900000000004,
1.87877, 2.237409999999997, 2.75414, 1.5714, 2.44876, 2.20857, 2.517379999999997]

Mean absolute error:- 0.0002246373708546375

Mean squared error:- 8.1165683895945e-08

Root mean squared error:- 0.0002848959176540531

r2 Score:- 0.9999994689537345

At random state 354 the model performs very well

At random state 354

Training score is

0.9999997223331264

Predicted value is [1.42787266 2.8932148 3.19114675 1.7931552 1.87969007 1.86969869
2.27413646 1.97543523 2.26642806 1.69474918 1.96966538 2.45367823
2.23772576 1.5985807 1.64835439 0.99848108 1.61621595 1.87880857
1.75873369 1.24117651 2.13139102 2.82365892 1.89858512 1.94934625
2.84827613 1.46178792 2.12505535 1.57034519 1.26500263 1.95597299] and Actual value is [

1.42766, 2.89319, 3.1913099999999996, 1.79293, 1.8799599999999999, 1.8698400000000002, 2.27394, 1.9757, 2.26646, 1.6944, 1.9699400000000002, 2.4537299999999997, 2.2374099999999999 7, 1.5988799999999999, 1.6488, 0.99895, 1.6158299999999999, 1.87877, 1.75873, 1.24074, 2.1309, 2.82334, 1.89894, 1.9493900000000002, 2.84848, 1.46181, 2.12466, 1.57059, 1.26462, 1.9563700000000002]

Mean absolute error:- 0.00024848385277712975
Mean squared error:- 8.358285058226374e-08
Root mean squared error:- 0.00028910698812423014
r2 Score:- 0.999996704411519

At random state 355 the model performs very well
At random state 355
Training score is
0.999996866140789

Predicted value is [0.98168201 1.88499957 2.59435388 2.20139499 1.87964147 2.8073674 1.8696843 1.44416518 0.89942322 2.86703886 1.88958934 1.95846097 2.2419253 2.31981558 1.97552098 2.12374415 3.1910628 2.49205185 2.06397832 1.94271714 2.79064297 2.21119263 2.8359228 0.65453849 1.88530229 1.38098022 2.44841821 1.41711395 2.32129162 2.76617185] and Actual value is [0.98195, 1.8854099999999998, 2.5945, 2.20173, 1.8799599999999999, 2.8079099999999997, 1.8698400000000002, 1.44395, 0.89991, 2.86712, 1.8893099999999998, 1.95812, 2.24173, 2.31945, 1.9757, 2.12367, 3.191309999999996, 2.4920400000000003, 2.06367, 1.9429599999999998, 2.79094, 2.21126, 2.8360000000000003, 0.6542899999999999, 1.8850099999999999, 1.38079, 2.44876, 1.41723, 2.3214200000000003, 2.76579]

Mean absolute error:- 0.0002448249230373049
Mean squared error:- 7.591340398793981e-08
Root mean squared error:- 0.0002755238719021272
r2 Score:- 0.999997907317876

At random state 356 the model performs very well
At random state 356
Training score is
0.999997237037506

Predicted value is [2.74274554 2.24709319 1.57164222 2.50988306 2.63440393 1.96941466 1.95592574 2.80734682 2.47495269 0.89943472 1.87966187 1.96968518 2.26643124 1.84410684 2.44840739 2.32374477 2.24630099 2.53917639 2.5095872 2.13137676 1.7392685 2.11556542 3.05120181 2.89320211 2.53337504 1.86969246 1.7613956 1.44416228 1.87660393 3.03482286] and Actual value is [2.74255, 2.24743, 1.5714, 2.51009, 2.6343, 1.9696099999999999, 1.9563700000000002, 2.80790999999997, 2.4748900000000003, 0.89991, 1.8799599999999999, 1.9699400000000002, 2.26646, 1.84408, 2.44876, 2.32407, 2.2463900000000003, 2.5394200000000002, 2.51011, 2.1309, 1.7393299999999998, 2.1156900000000003, 3.05137, 2.89319, 2.5332, 1.8698400000000002, 1.76145, 1.44395, 1.8763400000000001, 3.035]

Mean absolute error:- 0.00022804801424777254
Mean squared error:- 7.496766339957829e-08
Root mean squared error:- 0.000273802234102606
r2 Score:- 0.999996793544597

At random state 357 the model performs very well
At random state 357
Training score is
0.999997193287655

Predicted value is [2.70212963 1.75333083 1.96941489 1.78521303 3.1910704 2.26420265 1.4618219 1.59891769 2.59435108 2.08471272 1.80032996 2.10998723 1.93108223 1.95591213 0.98173961 1.95245307 1.88521846 2.26644819 1.94270748 1.87873528 2.11555294 3.60181387 2.86698325 1.9696931 1.59855163 1.26493536 2.04394162 2.21118214 2.20143801 2.02490457] and Actual value is [2.70201, 1.7536, 1.9696099999999999, 1.78555, 3.1913099999999996, 2.26425, 1.46181, 1.59927, 2.5945, 2.08528, 1.801009999999998, 2.11032, 1.9312900000000002, 1.9563700000000002, 0.98195, 1.9521, 1.8850099999999999, 2.26646, 1.9429599999999998, 1.87877, 2.1156900000000003, 3.6021400000000003, 2.86712, 1.9699400000000002, 1.5988799999999999, 1.26462, 2.0438400000000003, 2.21126, 2.20173, 2.0251799999999998]

Mean absolute error:- 0.00024250516554018183
Mean squared error:- 8.197950451243099e-08
Root mean squared error:- 0.00028632063235546086

r2 Score:- 0.99999969588994

At random state 358 the model performs very well

At random state 358

Training score is

0.9999997349076338

Predicted value is [2.21997455 2.83596043 1.58825815 1.88955094 1.9529295 2.44844722

1.42786697 0.67139945 2.86703181 1.96970943 1.68158758 1.80035125

0.89939429 1.59566674 2.05114393 2.3230548 2.67617105 2.20146484

2.44679499 1.89853842 1.57160806 2.4518864 2.08472923 2.00076211

2.11556905 2.04398297 1.73833839 1.7533765 1.46185091 2.79886356] and Actual value is [

2.21978, 2.8360000000000003, 1.58782, 1.8893099999999998, 1.95335, 2.44876, 1.42766, 0.67

108, 2.86712, 1.9699400000000002, 1.68135, 1.8010099999999998, 0.89991, 1.59541, 2.05125,

2.32323, 2.67585, 2.20173, 2.4464900000000003, 1.89894, 1.5714, 2.4517599999999997, 2.085

28, 2.00073, 2.1156900000000003, 2.0438400000000003, 1.73797, 1.7536, 1.46181, 2.79832]

Mean absolute error:- 0.0002697375177714956

Mean squared error:- 9.811067219029622e-08

Root mean squared error:- 0.00031322623164463126

r2 Score:- 0.9999996209836667

At random state 359 the model performs very well

At random state 359

Training score is

0.9999997415956313

Predicted value is [2.00079311 2.45366847 1.44421238 1.73799348 2.22004836 1.96939422

1.88960422 2.05110016 2.2470765 1.46509107 2.09031588 2.85765792

1.95076341 1.2136127 2.44686944 2.79880713 2.48665045 1.95248122

1.92341375 2.1313864 1.86968304 3.03487449 2.08478437 3.08885495

2.02489564 1.2650278 2.18868749 2.24186627 1.34738341 1.62260322] and Actual value is [

2.00073, 2.4537299999999997, 1.44395, 1.7379900000000001, 2.21978, 1.969609999999999, 1.

8893099999999998, 2.05125, 2.24743, 1.46494, 2.0906599999999997, 2.85737, 1.95071, 1.2130

5, 2.4464900000000003, 2.79832, 2.48676, 1.9521, 1.92313, 2.1309, 1.8698400000000002, 3.0

35, 2.08528, 3.08854, 2.025, 1.26462, 2.18896, 2.24173, 1.34759, 1.62215]

Mean absolute error:- 0.0002624233913181969

Mean squared error:- 9.106136473525941e-08

Root mean squared error:- 0.00030176375649713043

r2 Score:- 0.9999995980837167

At random state 360 the model performs very well

At random state 360

Training score is

0.9999997053574377

Predicted value is [2.83597954 1.4171624 2.20155388 2.79075588 2.20787493 1.9310849

1.80030185 2.51755371 1.87965134 2.50990357 1.99179182 1.94924402

2.70222495 0.67142639 1.4441709 3.26048727 2.49207618 3.17769095

2.63446449 2.06380693 2.82369287 2.67618583 2.32137079 1.59858934

1.78526993 2.24713032 2.37161898 3.10712969 2.43849544 1.21358154] and Actual value is [

2.8360000000000003, 1.41723, 2.20173, 2.79094, 2.20857, 1.9312900000000002, 1.80100999999

99998, 2.5173799999999997, 1.879959999999999, 2.51009, 1.9917200000000002, 1.94939000000

00002, 2.70201, 0.67108, 1.44395, 3.26001, 2.4920400000000003, 3.17728, 2.6343, 2.06367,

2.82334, 2.67585, 2.3214200000000003, 1.598879999999999, 1.78555, 2.24729, 2.37119000000

00004, 3.10712, 2.43872, 1.21305]

Mean absolute error:- 0.0002538123895154324

Mean squared error:- 9.624135297293323e-08

Root mean squared error:- 0.00031022790489079673

r2 Score:- 0.99999972623777

At random state 361 the model performs very well

At random state 361

Training score is

0.9999997421865107

Predicted value is [3.10706463 2.32305942 1.68428834 2.23227227 1.46507115 1.96965014

1.9507261 2.86697096 2.43859959 1.80046186 2.20147979 1.59901052

2.43246534 1.93115876 1.88958978 2.32376963 1.38092049 2.51747715

1.5958701 1.99182348 1.78520294 2.12510842 1.83351706 1.73803477

2.84822654 1.95847713 2.18857616 2.75457793 2.24713262 1.26496821] and Actual value is [3.10712, 2.32323, 1.68435, 2.2327, 1.46494, 1.9699400000000002, 1.95071, 2.86712, 2.43872, 1.8010099999999998, 2.20173, 1.59927, 2.43209, 1.9312900000000002, 1.8893099999999998, 2.32407, 1.38079, 2.5173799999999997, 1.59541, 1.9917200000000002, 1.78555, 2.12466, 1.83302, 1.7379900000000001, 2.84848, 1.95812, 2.18896, 2.75414, 2.24743, 1.26462]

Mean absolute error:- 0.0002590975580282725

Mean squared error:- 8.913843668930937e-08

Root mean squared error:- 0.00029856060806695406

r2 Score:- 0.999995520059242

At random state 362 the model performs very well

At random state 362

Training score is

0.99999751434208

Predicted value is [2.74279 2.27408473 1.86603711 1.59854443 1.73924577 1.75330977 1.46183409 2.45366625 1.68157857 2.46516789 2.23228099 1.85995367 1.86967727 1.69483117 2.09978774 1.95074263 2.13133944 2.20143577 1.64835673 1.73797759 1.2410998 2.75456329 2.26645534 1.80037916 1.38090031 1.84408002 2.18861183 0.89933896 1.93110225 2.76617092] and Actual value is [2.74255, 2.27394, 1.86565, 1.5988799999999999, 1.7393299999999998, 1.7536, 1.46181, 2.4537299999999997, 1.68135, 2.4653099999999997, 2.2327, 1.8604, 1.8698400000000002, 1.6944, 2.10017, 1.95071, 2.1309, 2.20173, 1.6488, 1.7379900000000001, 1.24074, 2.75414, 2.26646, 1.8010099999999998, 1.38079, 1.84408, 2.18896, 0.89991, 1.9312900000000002, 2.76579]

Mean absolute error:- 0.00026735611833315817

Mean squared error:- 1.0221794523360946e-07

Root mean squared error:- 0.000319715412880908

r2 Score:- 0.999994546534509

At random state 363 the model performs very well

At random state 363

Training score is

0.9999970546993

Predicted value is [2.53344698 1.84412596 1.93113254 1.8661511 2.31988708 1.42787532 1.73833621 1.89856073 2.1886914 2.49200471 1.87665354 3.05109636 2.80730092 2.05096833 3.03475497 3.60172726 2.32373849 2.51758119 1.71933543 1.86968779 1.95296571 2.75449897 2.44836415 0.65458193 2.24714384 1.41716894 1.8896198 1.38098605 1.8643871 1.26507006] and Actual value is [2.5332, 1.84408, 1.9312900000000002, 1.86565, 2.31945, 1.42766, 1.73797, 1.89894, 2.18896, 2.4920400000000003, 1.8763400000000001, 3.05137, 2.8079099999999997, 2.05125, 3.035, 3.6021400000000003, 2.32407, 2.51767, 1.719559999999998, 1.8698400000000002, 1.95335, 2.75414, 2.44876, 0.654289999999999, 2.24729, 1.41723, 1.8893099999999998, 1.38079, 1.86399, 1.26462]

Mean absolute error:- 0.00028591147362969636

Mean squared error:- 1.0037469775307878e-07

Root mean squared error:- 0.00031681966124765486

r2 Score:- 0.999997171391147

At random state 364 the model performs very well

At random state 364

Training score is

0.999997140722832

Predicted value is [2.24707945 2.61947295 0.65451372 0.98173108 1.46504503 1.7533113 2.76619857 1.24123101 3.05123744 2.45362917 2.12507198 2.6344276 1.75877042 1.87966961 1.63810825 2.32375791 2.53917651 1.62262617 3.26041672 2.44842352 1.92338383 1.87660062 1.88502701 1.88963799 2.6777703 2.08481531 2.05109516 2.06401381 1.83348387 1.99176288] and Actual value is [2.24743, 2.61955, 0.6542899999999999, 0.98195, 1.46494, 1.7536, 2.76579, 1.24074, 3.05137, 2.4537299999999997, 2.12466, 2.6343, 1.75873, 1.8799599999999999, 1.63794, 2.32407, 2.5394200000000002, 1.62215, 3.26001, 2.44876, 1.92313, 1.8763400000000001, 1.8854099999999998, 1.8893099999999998, 2.67782, 2.08528, 2.05125, 2.06367, 1.83302, 1.9917200000000002]

Mean absolute error:- 0.00026519238029731884

Mean squared error:- 8.945012190727708e-08

Root mean squared error:- 0.0002990821323771734

r2 Score:- 0.999997178204965

At random state 365 the model performs very well
At random state 365
Training score is
0.99999970868603
Predicted value is [1.63817435 1.44420365 2.45190861 1.633238 1.87964829 2.84823811
2.24186274 2.02495608 2.44845118 2.02482715 0.65452456 2.43242096
1.68427603 2.46563046 1.84411861 1.80035364 2.21120609 2.00076436
2.24627832 1.59857316 1.42789395 1.38099526 3.10707945 2.18867372
2.80740173 2.31982515 2.26428204 1.85107853 1.76142856 2.21997762] and Actual value is [
1.63794, 1.44395, 2.4517599999999997, 1.6332799999999998, 1.8799599999999999, 2.84848, 2.
24173, 2.0251799999999998, 2.44876, 2.025, 0.6542899999999999, 2.43209, 1.68435, 2.4657,
1.84408, 1.8010099999999998, 2.21126, 2.00073, 2.2463900000000003, 1.5988799999999999, 1.
42766, 1.38079, 3.10712, 2.18896, 2.807909999999997, 2.31945, 2.26425, 1.851, 1.76145, 2
.21978]

Mean absolute error:- 0.0001986808933654438
Mean squared error:- 6.119711897830535e-08
Root mean squared error:- 0.00024738051454855
r2 Score:- 0.9999997490473596

At random state 366 the model performs very well
At random state 366
Training score is
0.9999997049606252
Predicted value is [3.03482227 1.58828311 2.18864413 1.6948897 2.22006867 1.4617608
2.49199026 2.27408928 2.43857517 2.53338553 3.60180084 2.11354149
1.95846214 2.2664627 1.26501916 1.8511263 2.63440666 1.88963486
2.05110063 2.84824215 2.06397862 1.44420027 3.10731495 1.96973443
2.32311031 1.88527929 1.73933378 1.42785187 1.94939357 2.24710279] and Actual value is [
3.035, 1.58782, 2.18896, 1.6944, 2.21978, 1.46181, 2.4920400000000003, 2.27394, 2.43872,
2.5332, 3.6021400000000003, 2.1139900000000003, 1.95812, 2.26646, 1.26462, 1.851, 2.6343,
1.889309999999998, 2.05125, 2.84848, 2.06367, 1.44395, 3.107090000000004, 1.96994000000
00002, 2.32323, 1.885009999999999, 1.739329999999998, 1.42766, 1.949390000000002, 2.24
729]

Mean absolute error:- 0.00021850673423760755
Mean squared error:- 6.551204914609427e-08
Root mean squared error:- 0.0002559532167137078
r2 Score:- 0.99999762575722

At random state 367 the model performs very well
At random state 367
Training score is
0.999999716191789
Predicted value is [2.44682539 2.51769269 2.79874787 3.03482784 1.46507128 1.58827963
2.37158435 1.85110196 0.65455004 1.88957368 1.34731419 3.10730411
2.80740003 2.30872128 2.32131581 1.8787706 2.09983239 1.95251047
1.59580822 1.86972013 0.98173664 2.84822408 2.3237603 2.0848121
2.12507867 2.32307813 2.43861834 2.414506 1.99179744 2.86700006] and Actual value is [
2.4464900000000003, 2.51767, 2.79832, 3.035, 1.46494, 1.58782, 2.371190000000004, 1.851,
0.654289999999999, 1.889309999999998, 1.34759, 3.107090000000004, 2.807909999999997,
2.30919, 2.3214200000000003, 1.87877, 2.10017, 1.9521, 1.59541, 1.869840000000002, 0.981
95, 2.84848, 2.32407, 2.08528, 2.12466, 2.32323, 2.43872, 2.414840000000003, 1.991720000
0000002, 2.86712]

Mean absolute error:- 0.0002619694454139898
Mean squared error:- 8.972339936052411e-08
Root mean squared error:- 0.000299538644185561
r2 Score:- 0.999997257019246

At random state 368 the model performs very well
At random state 368
Training score is
0.9999997438020094
Predicted value is [1.62251617 0.9819084 3.08878667 1.5957178 3.03480208 1.95281198
2.79066661 2.53340726 2.43842895 2.46513673 1.92342442 2.45369923
1.61625654 2.3213284 1.44423011 1.42792569 1.96974028 1.80029032
2.20782477 1.34738307 1.9754693 3.19102171 1.38097714 1.95841195

2.04397871 1.7382412 1.95251856 2.08469362 2.09968531 2.21996942] and Actual value is [1.62215, 0.98195, 3.08854, 1.59541, 3.035, 1.95335, 2.79094, 2.5332, 2.43872, 2.4653099999999997, 1.92313, 2.4537299999999997, 1.6158299999999999, 2.3214200000000003, 1.44395, 1.42766, 1.9699400000000002, 1.80109999999998, 2.20857, 1.34759, 1.9757, 3.191309999999999996, 1.38079, 1.95812, 2.0438400000000003, 1.73797, 1.9521, 2.08528, 2.10017, 2.21978]

Mean absolute error:- 0.00029969569085493234
Mean squared error:- 1.1915676426405276e-07
Root mean squared error:- 0.0003451909098803918
r2 Score:- 0.999995734506905

At random state 369 the model performs very well
At random state 369
Training score is
0.999997294558277

Predicted value is [1.85994337 1.8985528 1.63810032 1.95596001 2.44220297 2.18863897 2.74278096 2.31977303 2.61950429 1.97545535 2.06392536 2.46557138 3.10711725 1.92338041 1.83346709 2.43245828 2.48667645 1.59896933 2.79074466 1.96969395 2.32129623 1.84412744 1.46506067 2.26421277 1.63323266 2.02496463 2.67774128 2.0248592 2.32377243 3.08883651] and Actual value is [1.8604, 1.89894, 1.63794, 1.9563700000000002, 2.44191, 2.18896, 2.74255, 2.31945, 2.61955, 1.9757, 2.06367, 2.4657, 3.10712, 1.92313, 1.83302, 2.43209, 2.48676, 1.59927, 2.79094, 1.9699400000000002, 2.3214200000000003, 1.84408, 1.46494, 2.26425, 1.6332799999999998, 2.0251799999999998, 2.67782, 2.025, 2.32407, 3.08854]

Mean absolute error:- 0.00021853519245875012
Mean squared error:- 6.404862001419734e-08
Root mean squared error:- 0.00025307828831054894
r2 Score:- 0.999996373749349

At random state 370 the model performs very well
At random state 370
Training score is
0.999997173201859

Predicted value is [2.46560279 2.37159049 1.76146216 1.26497372 1.80039229 2.2323266 1.87877301 2.26425767 2.26649682 3.19111683 2.45364837 2.70216472 2.86699655 1.75336034 1.78523882 2.43856442 1.83341942 2.5943899 2.12374124 1.9917785 2.23771498 2.67618024 2.89320165 2.51768453 1.96972777 2.27406555 1.46176037 2.22001584 1.63326148 2.51752576] and Actual value is [2.4657, 2.371190000000004, 1.76145, 1.26462, 1.80109999999998, 2.2327, 1.87877, 2.26425, 2.26646, 3.191309999999996, 2.4537299999999997, 2.70201, 2.86712, 1.7536, 1.78555, 2.43872, 1.83302, 2.5945, 2.12367, 1.991720000000002, 2.2374099999999997, 2.67585, 2.89319, 2.51767, 1.9699400000000002, 2.27394, 1.46181, 2.21978, 1.6332799999999998, 2.517379999999997]

Mean absolute error:- 0.00017499308649776928
Mean squared error:- 5.340717193217273e-08
Root mean squared error:- 0.00023109991763774546
r2 Score:- 0.999997227625771

At random state 371 the model performs very well
At random state 371
Training score is
0.999997156912558

Predicted value is [1.96970502 2.00076589 1.7192032 1.57038072 2.67621569 1.78525006 1.86428862 2.1886738 2.82369808 1.84417021 3.10731824 1.46503164 2.24629179 1.95840506 2.53343463 2.27548959 2.22005697 2.53924186 1.86962954 1.68155069 1.41713204 3.05123513 2.32310688 1.21357389 2.44680923 3.08888741 0.99840464 1.95292123 2.024979 1.26499821] and Actual value is [1.9699400000000002, 2.00073, 1.719559999999998, 1.57059, 2.67585, 1.78555, 1.86399, 2.18896, 2.82334, 1.84408, 3.107090000000004, 1.46494, 2.2463900000000003, 1.95812, 2.5332, 2.27513, 2.21978, 2.539420000000002, 1.8698400000000002, 1.68135, 1.41723, 3.05137, 2.32323, 1.21305, 2.4464900000000003, 3.08854, 0.99895, 1.95335, 2.025179999999998, 1.26462]

Mean absolute error:- 0.00025997162020452067
Mean squared error:- 8.307430522164651e-08
Root mean squared error:- 0.0002882261355631139
r2 Score:- 0.999997188435237

At random state 372 the model performs very well
At random state 372
Training score is
0.9999996935152365
Predicted value is [1.46506315 1.42782319 2.70215333 1.88962472 0.89943163 2.32377709
3.05128244 1.83352686 1.95848234 2.44218864 2.85759075 2.6344532
1.85993569 2.61950877 1.78526152 1.87966179 3.10737746 1.99180231
2.49202495 2.2323183 2.53338576 0.65454297 2.79076586 1.75875093
1.62259967 1.68158756 2.0639971 1.2411897 2.45362968 2.48668055] and Actual value is [
1.46494, 1.42766, 2.70201, 1.889309999999998, 0.89991, 2.32407, 3.05137, 1.83302, 1.9581
2, 2.44191, 2.85737, 2.6343, 1.8604, 2.61955, 1.78555, 1.879959999999999, 3.107090000000
004, 1.991720000000002, 2.492040000000003, 2.2327, 2.5332, 0.654289999999999, 2.79094
, 1.75873, 1.62215, 1.68135, 2.06367, 1.24074, 2.453729999999997, 2.48676]
Mean absolute error:- 0.0002420458711007119
Mean squared error:- 7.866663938878645e-08
Root mean squared error:- 0.0002804757376116274
r2 Score:- 0.9999997791143679

At random state 373 the model performs very well
At random state 373
Training score is
0.9999997199973334
Predicted value is [2.51747321 3.60180833 2.2376989 2.46555028 1.62255094 0.98166079
2.47492995 1.57030112 1.87876913 2.4484388 2.45360345 1.96938948
1.4441851 2.50991402 1.85995117 1.88495836 2.08476805 2.24707793
2.32129172 2.12372135 1.64834022 2.85759028 2.32376814 2.12500184
2.26420757 3.19109658 2.0249529 1.93106942 2.06388165 1.59853836] and Actual value is [
2.517379999999997, 3.602140000000003, 2.237409999999997, 2.4657, 1.62215, 0.98195, 2.4
748900000000003, 1.57059, 1.87877, 2.44876, 2.453729999999997, 1.969609999999999, 1.443
95, 2.51009, 1.8604, 1.885409999999998, 2.08528, 2.24729, 2.321420000000003, 2.12367, 1
.6488, 2.85737, 2.32407, 2.12466, 2.26425, 3.191309999999996, 2.025179999999998, 1.9312
90000000002, 2.06367, 1.598879999999999]
Mean absolute error:- 0.00024491329594125515
Mean squared error:- 7.722142436350349e-08
Root mean squared error:- 0.0002778874311002631
r2 Score:- 0.999997030458574

At random state 374 the model performs very well
At random state 374
Training score is
0.999999753059028
Predicted value is [2.70218411 1.46507977 2.09971751 2.12374435 2.24181373 2.32307076
2.13133082 2.5334334 2.76611302 2.32132856 1.41720431 2.49202256
1.86002587 2.41451642 2.27407565 2.04396145 2.75449052 1.86609519
2.246263 1.80030667 1.95287209 2.02479666 2.08470811 1.38096255
1.69480445 2.23235671 0.6544799 2.09024159 2.79071619 1.61623893] and Actual value is [
2.70201, 1.46494, 2.10017, 2.12367, 2.24173, 2.32323, 2.1309, 2.5332, 2.76579, 2.32142000
00000003, 1.41723, 2.492040000000003, 1.8604, 2.414840000000003, 2.27394, 2.04384000000
00003, 2.75414, 1.86565, 2.246390000000003, 1.80100999999998, 1.95335, 2.025, 2.08528,
1.38079, 1.6944, 2.2327, 0.654289999999999, 2.090659999999997, 2.79094, 1.615829999999
999]
Mean absolute error:- 0.00027336206514202435
Mean squared error:- 1.0308002434437127e-07
Root mean squared error:- 0.0003210607798289465
r2 Score:- 0.999995196105529

At random state 375 the model performs very well
At random state 375
Training score is
0.9999997223945349
Predicted value is [2.82367169 2.24628872 2.13136039 2.23235809 1.46506376 1.57035465
2.46519195 1.76144998 1.89856896 1.86431695 1.75868812 3.6018858
2.20790215 1.92339564 3.17765009 2.53344633 1.87966068 1.95249752
1.2649836 2.45368527 1.73800387 2.04399529 1.63330186 1.95076243
2.85765497 1.88525055 1.73829368 2.22002477 0.99845329 1.93110725] and Actual value is [

2.82334, 2.2463900000000003, 2.1309, 2.2327, 1.46494, 1.57059, 2.4653099999999997, 1.7614
5, 1.89894, 1.86399, 1.75873, 3.6021400000000003, 2.20857, 1.92313, 3.17728, 2.5332, 1.87
9959999999999999, 1.9521, 1.26462, 2.4537299999999997, 1.7379900000000001, 2.0438400000000000
03, 1.6332799999999998, 1.95071, 2.85737, 1.8850099999999999, 1.73797, 2.21978, 0.99895,
1.9312900000000002]

Mean absolute error:- 0.0002459491322873486

Mean squared error:- 8.50727708474329e-08

Root mean squared error:- 0.00029167236901604665

r2 Score:- 0.999997035053262

At random state 376 the model performs very well

At random state 376

Training score is

0.999997230998748

Predicted value is [1.94272135 1.78521904 2.26423782 1.95071452 2.09020497 1.64838358
3.10723783 2.80735197 1.41715888 2.0847753 2.51768747 1.86005175
2.47495377 2.83594152 2.04401739 2.00080618 1.87660175 2.61955854
1.62255886 2.48649215 1.44419389 2.20789738 2.63436694 2.79060421
0.67142439 1.73925538 1.99177742 1.73793142 2.46559744 2.5333977] and Actual value is [
1.9429599999999998, 1.78555, 2.26425, 1.95071, 2.0906599999999997, 1.6488, 3.1070900000000
0004, 2.8079099999999997, 1.41723, 2.08528, 2.51767, 1.8604, 2.4748900000000003, 2.836000
0000000003, 2.0438400000000003, 2.00073, 1.8763400000000001, 2.61955, 1.62215, 2.48676, 1
.44395, 2.20857, 2.6343, 2.79094, 0.67108, 1.7393299999999998, 1.9917200000000002, 1.7379
900000000001, 2.4657, 2.5332]

Mean absolute error:- 0.0002194151017346213

Mean squared error:- 8.078679485191003e-08

Root mean squared error:- 0.0002842301793474965

r2 Score:- 0.999996896803904

At random state 377 the model performs very well

At random state 377

Training score is

0.999997585165226

Predicted value is [2.12505359 1.85996371 2.11812238 1.41720479 2.09978882 2.11352703
3.10735504 1.5715752 1.86965734 2.26420901 2.46558182 1.59898002
2.41447035 2.24709453 2.53916477 2.23228894 2.79878015 1.88501542
1.86427821 1.95256264 1.73802597 1.85107872 1.59573294 1.6161575
2.32307283 2.20795274 2.02493493 3.05123059 2.45366182 2.32128454] and Actual value is [
2.12466, 1.8604, 2.11773, 1.41723, 2.10017, 2.1139900000000003, 3.1070900000000004, 1.571
4, 1.8698400000000002, 2.26425, 2.4657, 1.59927, 2.4148400000000003, 2.24729, 2.539420000
0000002, 2.2327, 2.79832, 1.885409999999998, 1.86399, 1.9521, 1.7379900000000001, 1.851,
1.59541, 1.6158299999999999, 2.32323, 2.20857, 2.025179999999998, 3.05137, 2.45372999999
99997, 2.3214200000000003]

Mean absolute error:- 0.00027094447740563246

Mean squared error:- 9.647601036699036e-08

Root mean squared error:- 0.0003106058762595942

r2 Score:- 0.999994253250375

At random state 378 the model performs very well

At random state 378

Training score is

0.999997522809014

Predicted value is [1.68158949 2.11355378 1.44418384 2.4144733 2.89322251 2.50956271
2.13136305 1.87967161 3.19110607 1.6948185 1.85111884 1.34730048
1.57163173 2.83594593 1.83348525 1.87879213 2.27546578 1.95596971
2.24627746 1.86422038 1.86605102 3.1775614 1.88498331 1.97541178
1.4278329 1.71927391 2.20147945 2.44682781 1.64833136 2.09981868] and Actual value is [
1.68135, 2.1139900000000003, 1.44395, 2.4148400000000003, 2.89319, 2.51011, 2.1309, 1.879
9599999999999, 3.191309999999996, 1.6944, 1.851, 1.34759, 1.5714, 2.8360000000000003, 1.
83302, 1.87877, 2.27513, 1.9563700000000002, 2.2463900000000003, 1.86399, 1.86565, 3.1772
8, 1.885409999999998, 1.9757, 1.42766, 1.719559999999998, 2.20173, 2.4464900000000003,
1.6488, 2.10017]

Mean absolute error:- 0.0002918358374838596

Mean squared error:- 1.0329138201438538e-07

Root mean squared error:- 0.0003213897665053842

r2 Score:- 0.9999995431909721

At random state 379 the model performs very well
At random state 379
Training score is
0.9999997459629302
Predicted value is [1.87971 1.63810897 2.24183368 2.00078474 2.12504988 2.43850668
1.57170647 1.42792208 2.63444402 2.43245675 1.95295243 1.88520537
2.24706457 1.26505767 1.95846831 2.80740212 1.71927427 2.22003374
2.51767063 2.26644377 2.74280481 2.12380269 2.24632211 2.21126221
1.96939158 1.62259519 1.59862998 1.2136537 1.96968571 1.93115925] and Actual value is [
1.879959999999999, 1.63794, 2.24173, 2.00073, 2.12466, 2.43872, 1.5714, 1.42766, 2.6343,
2.43209, 1.95335, 1.885009999999999, 2.24743, 1.26462, 1.95812, 2.807909999999997, 1.71
9599999999998, 2.21978, 2.51767, 2.26646, 2.74255, 2.12367, 2.246390000000003, 2.21126,
1.969609999999999, 1.62215, 1.598879999999999, 1.21305, 1.9699400000000002, 1.931290000
000002]

Mean absolute error:- 0.0002476155212050024
Mean squared error:- 8.362736928948228e-08
Root mean squared error:- 0.00028918397135643993
r2 Score:- 0.9999994802582151

At random state 380 the model performs very well
At random state 380
Training score is
0.9999997512940674
Predicted value is [2.04399952 1.4441713 1.898568 2.80744329 2.08474105 2.20789404
1.79309223 1.96939302 2.51771667 2.11356607 2.0902265 1.86964304
0.99843121 2.86702183 1.63811835 2.44216484 1.57035425 1.59568236
1.69480664 1.87964531 1.68427908 2.05104163 1.99179855 1.76141773
2.76613328 2.75453982 2.50961127 3.03483316 2.82363643 1.26497319] and Actual value is [
2.043840000000003, 1.44395, 1.89894, 2.807909999999997, 2.08528, 2.20857, 1.79293, 1.96
9609999999999, 2.51767, 2.113990000000003, 2.0906599999999997, 1.869840000000002, 0.99
895, 2.86712, 1.63794, 2.44191, 1.57059, 1.59541, 1.6944, 1.879959999999999, 1.68435, 2.
05125, 1.991720000000002, 1.76145, 2.76579, 2.75414, 2.51011, 3.035, 2.82334, 1.26462]

Mean absolute error:- 0.00028809009746203114
Mean squared error:- 1.0840811611173194e-07
Root mean squared error:- 0.0003292538778993073
r2 Score:- 0.9999995731055985

At random state 381 the model performs very well
At random state 381
Training score is
0.9999997306971631
Predicted value is [2.80739493 2.26421068 1.84415613 2.32135039 1.8852771 1.73835106
1.64836441 1.46509701 1.69477296 1.26503819 1.97545734 2.85762576
2.24177154 2.237737 1.92343078 2.45184229 1.75338446 2.89317317
2.09979482 3.19111683 1.46181408 2.27414065 1.95295147 3.03485771
2.442172 1.86611562 1.5958052 2.24715039 1.96969427 1.88956249] and Actual value is [
2.807909999999997, 2.26425, 1.84408, 2.321420000000003, 1.885009999999999, 1.73797, 1.
6488, 1.46494, 1.6944, 1.26462, 1.9757, 2.85737, 2.24173, 2.237409999999997, 1.92313, 2.
451759999999997, 1.7536, 2.89319, 2.10017, 3.191309999999996, 1.46181, 2.27394, 1.95335
, 3.035, 2.44191, 1.86565, 1.59541, 2.24729, 1.969940000000002, 1.889309999999998]

Mean absolute error:- 0.0002429654444295141
Mean squared error:- 7.940029618051238e-08
Root mean squared error:- 0.00028178058162427086
r2 Score:- 0.9999996523721743

At random state 382 the model performs very well
At random state 382
Training score is
0.9999997338386738
Predicted value is [1.69486906 1.44420556 1.73931255 1.96940246 2.53918992 1.83347937
1.61621453 1.96969823 2.24708667 2.05113024 1.73830906 1.84416643
2.24628951 2.27548263 2.45183428 2.59439331 1.87967472 2.26643594
2.45367021 2.23234025 1.79314338 2.23765679 2.84824416 2.83593276

1.63812957 1.46179374 1.57040092 1.26500926 2.4651148 2.12507832] and Actual value is [1.6944, 1.44395, 1.7393299999999998, 1.9696099999999999, 2.5394200000000002, 1.83302, 1.6158299999999999, 1.9699400000000002, 2.24743, 2.05125, 1.73797, 1.84408, 2.2463900000000003, 2.27513, 2.4517599999999997, 2.5945, 1.8799599999999999, 2.26646, 2.4537299999999997, 2.2327, 1.79293, 2.2374099999999997, 2.84848, 2.8360000000000003, 1.63794, 1.46181, 1.57059, 1.26462, 2.4653099999999997, 2.12466]

Mean absolute error:- 0.0002225948607825027

Mean squared error:- 6.743621429301693e-08

Root mean squared error:- 0.00025968483647109035

r2 Score:- 0.999995931312794

At random state 383 the model performs very well

At random state 383

Training score is

0.999997568909343

Predicted value is [2.09020295 1.46181042 1.86609676 2.09979405 2.7545934 2.45373292 2.05103159 2.76613857 2.37159585 0.9816876 1.95075795 1.44421184 2.12510497 2.13142183 2.27418937 2.24716377 2.04405436 1.38091911 1.41718106 1.80043168 1.97546323 1.58830018 1.87662196 2.53924199 2.50988558 2.2200399 2.27552266 1.57034718 1.64834207 1.93107419] and Actual value is [2.0906599999999997, 1.46181, 1.86565, 2.10017, 2.75414, 2.4537299999999997, 2.05125, 2.76579, 2.3711900000000004, 0.98195, 1.95071, 1.44395, 2.12466, 2.1309, 2.27394, 2.24729, 2.0438400000000003, 1.38079, 1.41723, 1.801009999999998, 1.9757, 1.58782, 1.8763400000000001, 2.5394200000000002, 2.51009, 2.21978, 2.27513, 1.57059, 1.6488, 1.9312900000000002]

Mean absolute error:- 0.0002848371059252286

Mean squared error:- 1.051168421650763e-07

Root mean squared error:- 0.00032421727616688826

r2 Score:- 0.999994029116697

At random state 384 the model performs very well

At random state 384

Training score is

0.999997494416415

Predicted value is [2.308712 1.59899624 1.78526756 2.09024946 1.88499034 1.46175386 3.03485265 2.51767798 2.21125264 1.68152068 1.62258085 1.57169271 2.50957574 2.27541037 1.76138674 2.22001737 1.3809456 2.09979684 1.9233986 1.21357688 1.63325244 1.86610319 1.87969551 2.4145122 2.44222872 2.13140889 1.86971318 2.79064999 3.08882177 2.85762755] and Actual value is [2.30919, 1.59927, 1.78555, 2.0906599999999997, 1.8854099999999998, 1.46181, 3.035, 2.51767, 2.21126, 1.68135, 1.62215, 1.5714, 2.51011, 2.27513, 1.76145, 2.21978, 1.38079, 2.10017, 1.92313, 1.21305, 1.633279999999998, 1.86565, 1.8799599999999999, 2.4148400000000003, 2.44191, 2.1309, 1.8698400000000002, 2.79094, 3.08854, 2.85737]

Mean absolute error:- 0.00027742435814999135

Mean squared error:- 9.995101656572441e-08

Root mean squared error:- 0.00031615030692018064

r2 Score:- 0.999995621233425

At random state 385 the model performs very well

At random state 385

Training score is

0.999997355833444

Predicted value is [2.31979509 2.86699358 0.65458476 1.38102453 2.51746965 2.32309132 2.12376706 1.46507006 1.75876427 0.89950836 2.67622698 2.11351173 1.21369323 2.26422749 2.46556241 2.06403333 2.09985725 1.62262536 1.8335364 1.78528373 1.96941517 2.67775934 2.44218377 1.86609972 2.24195423 1.95597211 2.41449414 2.13138228 1.75335963 1.24127707] and Actual value is [2.31945, 2.86712, 0.6542899999999999, 1.38079, 2.5173799999999997, 2.32323, 2.12367, 1.46494, 1.75873, 0.89991, 2.67585, 2.1139900000000003, 1.21305, 2.26425, 2.4657, 2.06367, 2.10017, 1.62215, 1.83302, 1.78555, 1.9696099999999999, 2.67782, 2.44191, 1.86565, 2.24173, 1.9563700000000002, 2.4148400000000003, 2.1309, 1.7536, 1.24074]

Mean absolute error:- 0.0002897180803771512

Mean squared error:- 1.1054403117938831e-07

Root mean squared error:- 0.0003324816253259544

r2 Score:- 0.999995922262512

At random state 386 the model performs very well
At random state 386
Training score is
0.999999753846594
Predicted value is [2.32132858 1.95245702 1.85108052 2.23234639 1.5957364 2.44679899
2.74280805 1.75339518 1.87659345 1.75873675 2.61949548 2.24709107
2.53921288 1.26504111 2.46553896 1.57038241 1.89860703 1.95293053
2.06389319 1.2136478 1.94271607 2.41449867 2.24183357 1.94931433
1.87879894 1.61624728 2.12505216 2.32306662 1.4441951 2.08474421] and Actual value is [
2.3214200000000003, 1.9521, 1.851, 2.2327, 1.59541, 2.4464900000000003, 2.74255, 1.7536,
1.8763400000000001, 1.75873, 2.61955, 2.24743, 2.5394200000000002, 1.26462, 2.4657, 1.570
59, 1.89894, 1.95335, 2.06367, 1.21305, 1.942959999999998, 2.4148400000000003, 2.24173,
1.9493900000000002, 1.87877, 1.615829999999999, 2.12466, 2.32323, 1.44395, 2.08528]

Mean absolute error:- 0.00025839717899863
Mean squared error:- 8.794455159768654e-08
Root mean squared error:- 0.00029655446649424545
r2 Score:- 0.9999993968866698

At random state 387 the model performs very well
At random state 387
Training score is
0.999997395228167
Predicted value is [2.50954279 3.26047316 1.88531631 2.46557633 2.12373155 0.99837318
2.24193583 2.37160583 2.44855427 1.88493887 2.85760366 1.83351951
1.68150765 2.21124238 2.32303277 1.46157338 2.7427942 2.41450254
2.04411243 1.94926917 2.517758 1.42786133 2.24625492 2.53335838
1.59585189 1.85999 2.09025946 2.44679455 1.38097268 2.48650355] and Actual value is [
2.51011, 3.26001, 1.885009999999999, 2.4657, 2.12367, 0.99895, 2.24173, 2.37119000000000
04, 2.44876, 1.885409999999998, 2.85737, 1.83302, 1.68135, 2.21126, 2.32323, 1.46181, 2.
74255, 2.4148400000000003, 2.0438400000000003, 1.9493900000000002, 2.51767, 1.42766, 2.24
63900000000003, 2.5332, 1.59541, 1.8604, 2.090659999999997, 2.4464900000000003, 1.38079,
2.48676]

Mean absolute error:- 0.00027644523422665955
Mean squared error:- 9.850757249915707e-08
Root mean squared error:- 0.00031385916029193266
r2 Score:- 0.999995700963094

At random state 388 the model performs very well
At random state 388
Training score is
0.999996979513118
Predicted value is [3.03483517 2.53920239 2.21127031 3.1070637 0.67149736 2.32136015
1.61630025 3.60176237 1.92337695 2.45187856 1.68436611 1.59865482
3.17760273 1.88504655 1.24127486 2.43853679 2.084753 1.62261605
1.73837813 2.83598124 1.99171712 2.1314074 3.26043109 2.44840343
1.63321908 2.53342432 1.95596398 1.86974022 2.2377607 1.21371224] and Actual value is [
3.035, 2.539420000000002, 2.21126, 3.10712, 0.67108, 2.321420000000003, 1.615829999999
999, 3.602140000000003, 1.92313, 2.451759999999997, 1.68435, 1.598879999999999, 3.1772
8, 1.885409999999998, 1.24074, 2.43872, 2.08528, 1.62215, 1.73797, 2.8360000000000003, 1
.991720000000002, 2.1309, 3.26001, 2.44876, 1.633279999999998, 2.5332, 1.95637000000000
02, 1.8698400000000002, 2.237409999999997, 1.21305]

Mean absolute error:- 0.0002765683094130611
Mean squared error:- 1.1051274366339986e-07
Root mean squared error:- 0.00033243457049982007
r2 Score:- 0.999997417673366

At random state 389 the model performs very well
At random state 389
Training score is
0.9999969555894397
Predicted value is [2.51751264 2.12510552 2.85769788 2.61956452 2.67618238 2.05107967
3.26052357 1.61624604 1.44416649 2.43247025 2.26419068 3.19118708
2.75462425 2.44218231 2.83603733 2.67785906 2.32135682 2.02485705
1.96968465 2.22006616 0.6544217 1.84414857 2.10992845 2.21129184
2.09978829 2.3231166 1.95292969 3.10716964 1.88522225 1.34732229] and Actual value is [

2.5173799999999997, 2.12466, 2.85737, 2.61955, 2.67585, 2.05125, 3.26001, 1.6158299999999999
999, 1.44395, 2.43209, 2.26425, 3.1913099999999996, 2.75414, 2.44191, 2.8360000000000003,
2.67782, 2.3214200000000003, 2.025, 1.9699400000000002, 2.21978, 0.6542899999999999, 1.84
408, 2.11032, 2.21126, 2.10017, 2.32323, 1.95335, 3.10712, 1.8850099999999999, 1.34759]

Mean absolute error:- 0.0002260381554907635

Mean squared error:- 7.41364100884107e-08

Root mean squared error:- 0.000272280021463953

r2 Score:- 0.999997604323508

At random state 390 the model performs very well

At random state 390

Training score is

0.999997219866504

Predicted value is [2.47496984 1.87659873 1.94273289 2.89321807 2.53341582 2.61955378
2.46559281 1.61622509 1.95295949 2.4385531 1.75872708 2.30873067
2.43245418 3.19112033 1.44419677 2.44685758 1.71928369 2.45367068
3.10713119 2.32309082 1.87879136 1.89858082 2.76613191 2.05106187
1.92339501 2.86704162 2.12505741 1.73928402 2.11812251 1.73795786] and Actual value is [
2.4748900000000003, 1.8763400000000001, 1.9429599999999998, 2.89319, 2.5332, 2.61955, 2.4
657, 1.6158299999999999, 1.95335, 2.43872, 1.75873, 2.30919, 2.43209, 3.19130999999996,
1.44395, 2.4464900000000003, 1.7195599999999998, 2.4537299999999997, 3.10712, 2.32323, 1.
87877, 1.89894, 2.76579, 2.05125, 1.92313, 2.86712, 2.12466, 1.7393299999999998, 2.11773,
1.7379900000000001]

Mean absolute error:- 0.0002037166621160935

Mean squared error:- 6.228219867499013e-08

Root mean squared error:- 0.00024956401718795546

r2 Score:- 0.999996889893232

At random state 391 the model performs very well

At random state 391

Training score is

0.999997326505163

Predicted value is [2.05104424 1.87881905 2.49203941 2.00079474 1.76134133 1.88496994
2.86708488 2.12375654 2.18864322 1.44420682 1.99179818 1.94274045
1.79312322 2.09978191 1.6332597 2.63440193 2.11359295 2.4324478
1.92338827 2.04405138 2.59438798 2.6195606 1.71924948 1.87966797
2.79061613 2.09019897 3.26047001 2.74277318 2.4145102 2.48651012] and Actual value is [
2.05125, 1.87877, 2.4920400000000003, 2.00073, 1.76145, 1.8854099999999998, 2.86712, 2.12
367, 2.18896, 1.44395, 1.9917200000000002, 1.9429599999999998, 1.79293, 2.10017, 1.633279
9999999998, 2.6343, 2.1139900000000003, 2.43209, 1.92313, 2.0438400000000003, 2.5945, 2.6
1955, 1.7195599999999998, 1.8799599999999999, 2.79094, 2.0906599999999997, 3.26001, 2.742
55, 2.4148400000000003, 2.48676]

Mean absolute error:- 0.00021876122406564816

Mean squared error:- 6.746589279798408e-08

Root mean squared error:- 0.00025974197350059553

r2 Score:- 0.999996026383801

At random state 392 the model performs very well

At random state 392

Training score is

0.99999711948537

Predicted value is [2.3212709 1.7587348 1.68426858 1.69483118 2.89320442 2.00077055
1.38096659 2.51764025 1.85994602 1.85110375 2.45184374 2.46556518
2.53915336 1.64837985 1.76140481 2.79065291 1.42782115 2.46511553
1.8849851 2.18861313 2.06394837 0.67139777 2.24706422 2.44842306
1.95595563 2.26421044 3.05121032 1.97545953 3.08882134 2.3086952] and Actual value is [
2.3214200000000003, 1.75873, 1.68435, 1.6944, 2.89319, 2.00073, 1.38079, 2.51767, 1.8604,
1.851, 2.4517599999999997, 2.4657, 2.5394200000000002, 1.6488, 1.76145, 2.79094, 1.42766,
2.4653099999999997, 1.8854099999999998, 2.18896, 2.06367, 0.67108, 2.24729, 2.44876, 1.95
63700000000002, 2.26425, 3.05137, 1.9757, 3.08854, 2.30919]

Mean absolute error:- 0.00022132072978820288

Mean squared error:- 7.036804906252268e-08

Root mean squared error:- 0.0002652697665821016

r2 Score:- 0.999997360997153

At random state 393 the model performs very well
At random state 393
Training score is
0.9999997018396439
Predicted value is [1.73925465 1.97550681 2.67774884 1.38092268 2.8932289 2.32309023
2.37162038 2.05104178 2.2323256 1.94272399 2.30869186 1.44415861
2.20144552 1.63319123 2.43862064 3.10733877 1.69479234 2.13139126
2.45191833 2.2665044 2.50985633 2.79063494 1.42780266 2.5943745
1.844409477 0.98164663 0.89937099 1.78521503 2.00079071 3.17758186] and Actual value is [
1.7393299999999998, 1.9757, 2.67782, 1.38079, 2.89319, 2.32323, 2.3711900000000004, 2.051
25, 2.2327, 1.9429599999999998, 2.30919, 1.44395, 2.20173, 1.6332799999999998, 2.43872, 3
.1070900000000004, 1.6944, 2.1309, 2.451759999999997, 2.26646, 2.51009, 2.79094, 1.42766
, 2.5945, 1.84408, 0.98195, 0.89991, 1.78555, 2.00073, 3.17728]

Mean absolute error:- 0.00022587013867116182
Mean squared error:- 7.197577199430312e-08
Root mean squared error:- 0.0002682830072783275
r2 Score:- 0.99999976798548

At random state 394 the model performs very well
At random state 394
Training score is
0.9999997266018114
Predicted value is [1.42783978 2.09020437 2.89319327 2.09972772 2.67773821 2.20786155
1.86963238 2.21119658 2.0510251 2.5943632 2.32375143 1.95289316
2.53916357 1.83332839 2.24177534 1.75334333 1.57159386 2.46511294
2.26418843 2.50984227 2.70212061 0.98180152 3.05113724 1.59895369
2.24707342 2.11354914 1.59567662 2.24625062 1.85106566 3.19102194] and Actual value is [
1.42766, 2.0906599999999997, 2.89319, 2.10017, 2.67782, 2.20857, 1.8698400000000002, 2.21
126, 2.05125, 2.5945, 2.32407, 1.95335, 2.5394200000000002, 1.83302, 2.24173, 1.7536, 1.5
714, 2.4653099999999997, 2.26425, 2.51009, 2.70201, 0.98195, 3.05137, 1.59927, 2.24743, 2
.1139900000000003, 1.59541, 2.2463900000000003, 1.851, 3.1913099999999996]

Mean absolute error:- 0.00024039097451848587
Mean squared error:- 8.096483189944426e-08
Root mean squared error:- 0.0002845431986525847
r2 Score:- 0.9999996523571325

At random state 395 the model performs very well
At random state 395
Training score is
0.9999997412334979
Predicted value is [1.7931282 2.18859465 1.58831327 1.73838347 2.04408235 1.68433846
1.64831074 2.43252884 1.85999533 1.75878983 1.46179236 1.78518637
3.26046038 2.46553029 2.23229151 1.46505077 1.88497276 1.69478779
1.86607171 2.80735471 2.46513765 1.96965417 1.75329523 1.94943582
2.75460571 0.67133871 2.32131372 1.38092499 2.24182835 2.06395881] and Actual value is [
1.79293, 2.18896, 1.58782, 1.73797, 2.043840000000003, 1.68435, 1.6488, 2.43209, 1.8604,
1.75873, 1.46181, 1.78555, 3.26001, 2.4657, 2.2327, 1.46494, 1.885409999999998, 1.6944,
1.86565, 2.807909999999997, 2.465309999999997, 1.9699400000000002, 1.7536, 1.9493900000
000002, 2.75414, 0.67108, 2.321420000000003, 1.38079, 2.24173, 2.06367]

Mean absolute error:- 0.00028670120556381076
Mean squared error:- 1.0763536026406744e-07
Root mean squared error:- 0.0003280782837434801
r2 Score:- 0.999999552095358

At random state 396 the model performs very well
At random state 396
Training score is
0.9999997255659319
Predicted value is [1.87660653 1.95257158 1.59899265 2.32373278 3.05117471 1.63816329
2.09976287 2.67615627 1.88958316 3.10735363 1.46181356 1.76143787
2.43853441 1.73926299 1.86435885 1.75334205 1.57159139 2.21119881
2.12374135 1.84409935 1.6484271 2.00078763 2.20789892 2.84826455
3.1071197 2.44215822 1.8985539 2.61950689 2.26646538 1.95076077] and Actual value is [
1.8763400000000001, 1.9521, 1.59927, 2.32407, 3.05137, 1.63794, 2.10017, 2.67585, 1.88930
9999999998, 3.107090000000004, 1.46181, 1.76145, 2.43872, 1.739329999999998, 1.86399,

1.7536, 1.5714, 2.21126, 2.12367, 1.84408, 1.6488, 2.00073, 2.20857, 2.84848, 3.10712, 2.44191, 1.89894, 2.61955, 2.26646, 1.95071]

Mean absolute error:- 0.00021035838521863415
Mean squared error:- 7.058513979837732e-08
Root mean squared error:- 0.0002656786400868111
r2 Score:- 0.9999996705370533

At random state 397 the model performs very well

At random state 397

Training score is

0.9999997561402371

Predicted value is [2.50991495 2.24634532 2.7988145 1.59855942 2.11817029 2.44692638 1.46505151 2.67780583 2.82362538 2.27416479 1.9494213 2.47497728 2.09028139 2.12377923 2.30871456 1.78521568 2.24712961 1.97545403 2.48663396 2.23770706 3.10732667 2.13143326 2.70213022 2.44846297 2.11354909 2.20146746 2.44224108 1.94275997 2.75460159 2.12507684] and Actual value is [2.51009, 2.2463900000000003, 2.79832, 1.5988799999999999, 2.11773, 2.4464900000000003, 1.46494, 2.67782, 2.82334, 2.27394, 1.9493900000000002, 2.4748900000000003, 2.0906599999999997, 2.12367, 2.30919, 1.78555, 2.24729, 1.9757, 2.48676, 2.2374099999999997, 3.10709000000004, 2.1309, 2.70201, 2.44876, 2.1139900000000003, 2.20173, 2.44191, 1.9429599999999998, 2.75414, 2.12466]

Mean absolute error:- 0.0002697709889157555

Mean squared error:- 9.479011634369991e-08

Root mean squared error:- 0.00030788003563677187

r2 Score:- 0.9999992677609857

At random state 398 the model performs very well

At random state 398

Training score is

0.9999997458074671

Predicted value is [1.75871387 1.73833763 2.11353432 2.44212724 1.96948252 2.37159152 1.57037597 1.71928624 2.11563408 2.08478727 1.92338195 1.62258342 3.05111524 1.57162933 2.27546211 1.99175898 2.84824716 1.46504215 2.47499084 2.26424667 1.87664907 2.48653312 2.32132504 1.63326033 2.50982961 2.20789848 2.80734114 3.10724106 2.44842809 2.27412433] and Actual value is [1.75873, 1.73797, 2.1139900000000003, 2.44191, 1.969609999999999, 2.3711900000000004, 1.57059, 1.719559999999998, 2.1156900000000003, 2.08528, 1.92313, 1.62215, 3.05137, 1.5714, 2.27513, 1.9917200000000002, 2.84848, 1.46494, 2.4748900000000003, 2.26425, 1.87634000000001, 2.48676, 2.3214200000000003, 1.6332799999999998, 2.51009, 2.20857, 2.8079099999999997, 3.1070900000000004, 2.44876, 2.27394]

Mean absolute error:- 0.00024734961748235453

Mean squared error:- 8.851885880120733e-08

Root mean squared error:- 0.00029752119050784824

r2 Score:- 0.9999995318406645

At random state 399 the model performs very well

At random state 399

Training score is

0.9999996955583563

Predicted value is [1.94269737 2.43246752 2.63445161 2.37161728 1.73926191 1.96945123 0.65445446 3.26051425 1.94931959 1.59573387 1.78521499 2.32134851 1.46501266 2.82366103 3.05126923 2.0511077 2.23233943 2.59441905 2.24715091 0.89933937 1.42778276 2.51755626 2.06390027 1.89857189 2.24629356 1.69480009 2.44683075 3.08890382 0.9983931 1.75870383] and Actual value is [1.942959999999998, 2.43209, 2.6343, 2.371190000000004, 1.739329999999998, 1.96960999999999, 0.654289999999999, 3.26001, 1.949390000000002, 1.59541, 1.78555, 2.321420000000003, 1.46494, 2.82334, 3.05137, 2.05125, 2.2327, 2.5945, 2.24743, 0.89991, 1.42766, 2.517379999999997, 2.06367, 1.89894, 2.2463900000000003, 1.6944, 2.4464900000000003, 3.08854, 0.99895, 1.75873]

Mean absolute error:- 0.0002508318903508962

Mean squared error:- 8.658513191421999e-08

Root mean squared error:- 0.000294253516400773

r2 Score:- 0.9999997704655998

At random state 400 the model performs very well
At random state 400
Training score is
0.9999997269010908
Predicted value is [2.13139829 1.71921191 2.11556243 2.83593571 2.50983633 1.7587661
1.95852976 3.08880864 2.51774105 2.23772581 2.59438043 3.60187319
2.24705595 1.88956476 1.83348931 1.96974558 2.76614222 1.89860167
2.09025421 1.59586468 2.84822376 1.63809462 1.84416389 2.30870286
3.19108297 2.26649106 2.37161186 2.02497471 2.75454058 1.78523453] and Actual value is [
2.1309, 1.7195599999999998, 2.1156900000000003, 2.8360000000000003, 2.51009, 1.75873, 1.9
5812, 3.08854, 2.51767, 2.2374099999999997, 2.5945, 3.6021400000000003, 2.24729, 1.889309
9999999998, 1.83302, 1.9699400000000002, 2.76579, 1.89894, 2.0906599999999997, 1.59541, 2
.84848, 1.63794, 1.84408, 2.30919, 3.1913099999999996, 2.26646, 2.3711900000000004, 2.025
17999999999998, 2.75414, 1.78555]

Mean absolute error:- 0.0002688789741755275
Mean squared error:- 9.133367793426012e-08
Root mean squared error:- 0.0003022146223038523
r2 Score:- 0.999999624376927

At random state 401 the model performs very well
At random state 401
Training score is
0.9999997175384309
Predicted value is [1.88498981 2.1099762 2.53921232 2.22003816 2.24713183 1.95595987
1.95846297 3.10730149 2.46512715 2.82362509 2.46554885 3.26047175
3.60186758 1.86969952 2.18863157 2.84826067 1.58828168 2.04405176
3.10713634 1.96940575 2.53337998 2.24709387 2.59440891 1.95073383
2.13139905 1.6332508 1.87659937 1.89858146 2.76615464 1.92341188] and Actual value is [
1.8854099999999998, 2.11032, 2.5394200000000002, 2.21978, 2.24729, 1.9563700000000002, 1.
95812, 3.1070900000000004, 2.4653099999999997, 2.82334, 2.4657, 3.26001, 3.602140000000000
03, 1.8698400000000002, 2.18896, 2.84848, 1.58782, 2.0438400000000003, 3.10712, 1.9696099
999999999, 2.5332, 2.24743, 2.5945, 1.95071, 2.1309, 1.6332799999999998, 1.876340000000000
01, 1.89894, 2.76579, 1.92313]

Mean absolute error:- 0.00025706036808705127
Mean squared error:- 8.243850213743366e-08
Root mean squared error:- 0.0002871210583315575
r2 Score:- 0.9999996637298566

At random state 402 the model performs very well
At random state 402
Training score is
0.9999997226606724
Predicted value is [2.22002421 2.80733144 2.32374545 3.19105658 2.79061258 1.85111573
1.24121136 2.11816193 2.70210469 3.10726838 1.85997676 2.20142095
2.02489156 2.46513407 2.11557816 1.96974585 2.13140022 0.67143919
2.44687192 1.59569 1.97548664 2.32128779 2.53336688 2.08481539
1.46508426 2.43859549 2.24184961 1.93110139 2.44841429 2.83592851] and Actual value is [
2.21978, 2.8079099999999997, 2.32407, 3.1913099999999996, 2.79094, 1.851, 1.24074, 2.1177
3, 2.70201, 3.1070900000000004, 1.8604, 2.20173, 2.025, 2.4653099999999997, 2.11569000000
00003, 1.9699400000000002, 2.1309, 0.67108, 2.4464900000000003, 1.59541, 1.9757, 2.321420
0000000003, 2.5332, 2.08528, 1.46494, 2.43872, 2.24173, 1.9312900000000002, 2.44876, 2.83
60000000000003]

Mean absolute error:- 0.0002611829186028906
Mean squared error:- 8.74213434615006e-08
Root mean squared error:- 0.00029567100544608803
r2 Score:- 0.9999996806450366

At random state 403 the model performs very well
At random state 403
Training score is
0.9999997361774507
Predicted value is [2.50963748 2.21120952 1.78524475 1.84413318 2.2740647 2.20147799
2.48658827 1.86430198 2.44680093 2.85758245 1.41719571 1.69491559
1.71926233 1.62257961 2.24710637 2.32310947 1.94275503 2.23230936
1.99184625 1.95258932 2.47499417 1.92341396 1.68158636 2.24188424
3.17756262 3.19105735 2.00080461 2.02498493 1.88531413 1.638137] and Actual value is [

2.51011, 2.21126, 1.78555, 1.84408, 2.27394, 2.20173, 2.48676, 1.86399, 2.4464900000000000
3, 2.85737, 1.41723, 1.6944, 1.7195599999999998, 1.62215, 2.24729, 2.32323, 1.942959999999
99998, 2.2327, 1.991720000000002, 1.9521, 2.474890000000003, 1.92313, 1.68135, 2.24173,
3.17728, 3.1913099999999996, 2.00073, 2.0251799999999998, 1.8850099999999999, 1.63794]

Mean absolute error:- 0.00023808457895522958
Mean squared error:- 7.325678610534241e-08
Root mean squared error:- 0.0002706599085667148
r2 Score:- 0.999995933688077

At random state 404 the model performs very well

At random state 404

Training score is

0.999997203431195

Predicted value is [1.94275674 1.85110592 1.4172214 1.2136372 1.6381385 2.45185777
1.59897649 1.87965515 1.95598513 1.92339353 2.67619885 2.59437695
2.11550835 0.67144751 2.46512866 1.89858657 3.10731786 2.05118784
2.41446203 2.32307085 1.6484287 1.83355579 2.79888041 3.19109228
1.9525298 1.86428816 2.22001294 2.83591964 1.24120183 2.21116542] and Actual value is [
1.942959999999998, 1.851, 1.41723, 1.21305, 1.63794, 2.451759999999997, 1.59927, 1.8799
599999999999, 1.9563700000000002, 1.92313, 2.67585, 2.5945, 2.1156900000000003, 0.67108,
2.4653099999999997, 1.89894, 3.107090000000004, 2.05125, 2.4148400000000003, 2.32323, 1.
6488, 1.83302, 2.79832, 3.191309999999996, 1.9521, 1.86399, 2.21978, 2.8360000000000003,
1.24074, 2.21126]

Mean absolute error:- 0.0002704621552569305

Mean squared error:- 9.575532398640529e-08

Root mean squared error:- 0.00030944357157065854

r2 Score:- 0.999996907443585

At random state 405 the model performs very well

At random state 405

Training score is

0.999997365079878

Predicted value is [1.92335017 2.53344057 2.24709089 1.61624795 2.47496097 1.86611184
1.87965812 1.85105917 2.18870501 1.86001343 2.59440771 1.94269473
3.19113436 2.50965393 2.31985906 3.17765765 2.70222294 1.63813631
1.59860626 2.21123869 1.89857013 1.62256873 1.73829171 1.26499928
3.05124017 2.75453363 2.74282699 0.99841889 1.57035261 2.30872403] and Actual value is [
1.92313, 2.5332, 2.24743, 1.615829999999999, 2.4748900000000003, 1.86565, 1.879959999999
9999, 1.851, 2.18896, 1.8604, 2.5945, 1.942959999999998, 3.191309999999996, 2.51011, 2.
31945, 3.17728, 2.70201, 1.63794, 1.598879999999999, 2.21126, 1.89894, 1.62215, 1.73797,
1.26462, 3.05137, 2.75414, 2.74255, 0.99895, 1.57059, 2.30919]

Mean absolute error:- 0.00029193373200655885

Mean squared error:- 1.0246597149495657e-07

Root mean squared error:- 0.0003201030638637446

r2 Score:- 0.999996525924435

At random state 406 the model performs very well

At random state 406

Training score is

0.999996993695032

Predicted value is [2.50986092 2.32133511 2.115587 3.08881889 2.32308998 2.06391406
1.88959918 1.59581208 2.04405509 1.63328967 0.67142949 1.57039599
1.79311559 1.46507329 1.63810187 2.18862984 2.45368049 1.95597543
2.51771484 2.4651623 1.88531389 1.26500579 3.10728676 2.47499315
2.00081462 1.78523156 2.4468307 1.42783457 2.8482509 1.95301245] and Actual value is [
2.51009, 2.321420000000003, 2.115690000000003, 3.08854, 2.32323, 2.06367, 1.88930999999
99998, 1.59541, 2.043840000000003, 1.633279999999998, 0.67108, 1.57059, 1.79293, 1.4649
4, 1.63794, 2.18896, 2.453729999999997, 1.9563700000000002, 2.51767, 2.465309999999997,
1.885009999999999, 1.26462, 3.107090000000004, 2.4748900000000003, 2.00073, 1.78555, 2.
446490000000003, 1.42766, 2.84848, 1.95335]

Mean absolute error:- 0.00021538633607549225

Mean squared error:- 5.867186447972466e-08

Root mean squared error:- 0.00024222275797233559

r2 Score:- 0.999997891205195

At random state 407 the model performs very well
At random state 407
Training score is
0.9999997571430717
Predicted value is [2.70203449 2.12513744 1.44418414 2.13138849 1.97539363 2.82363504
1.95074265 1.46179977 2.61955981 2.67609946 1.95593889 1.92346305
2.46513259 2.23227727 1.58830155 2.20791463 1.59590873 2.04405224
2.18856841 2.41451105 1.46508191 2.8931704 2.50953339 1.88954769
1.5985843 1.93113571 2.02492042 1.78517375 3.03486549 2.12373154] and Actual value is [
2.70201, 2.12466, 1.44395, 2.1309, 1.9757, 2.82334, 1.95071, 1.46181, 2.61955, 2.67585, 1
.9563700000000002, 1.92313, 2.4653099999999997, 2.2327, 1.58782, 2.20857, 1.59541, 2.0438
400000000003, 2.18896, 2.4148400000000003, 1.46494, 2.89319, 2.51011, 1.889309999999998,
1.598879999999999, 1.9312900000000002, 2.025179999999998, 1.78555, 3.035, 2.12367]

Mean absolute error:- 0.00027728418886133384
Mean squared error:- 1.0805534322659099e-07
Root mean squared error:- 0.00032871772575659953
r2 Score:- 0.9999994302400156

At random state 408 the model performs very well
At random state 408
Training score is
0.9999997202474893
Predicted value is [1.95302325 2.26423011 1.73798528 2.86703643 1.38098387 1.96973883
0.9817527 1.62259867 2.84824009 3.19107603 1.88957664 1.95596735
2.61951705 2.51748433 3.10727821 1.95250276 2.79069403 1.58827968
1.59900911 2.32375748 2.51765123 2.23767455 1.21358201 1.95074692
2.11353346 2.4145011 1.41721068 1.86429464 2.4324517 2.11814362] and Actual value is [
1.95335, 2.26425, 1.7379900000000001, 2.86712, 1.38079, 1.9699400000000002, 0.98195, 1.62
215, 2.84848, 3.1913099999999996, 1.8893099999999998, 1.9563700000000002, 2.61955, 2.5173
799999999997, 3.1070900000000004, 1.9521, 2.79094, 1.58782, 1.59927, 2.32407, 2.51767, 2.
2374099999999997, 1.21305, 1.95071, 2.1139900000000003, 2.4148400000000003, 1.41723, 1.86
399, 2.43209, 2.11773]

Mean absolute error:- 0.0002457797552050371
Mean squared error:- 8.327443148749534e-08
Root mean squared error:- 0.0002885730955711141
r2 Score:- 0.9999997175641249

At random state 409 the model performs very well
At random state 409
Training score is
0.9999996929649715
Predicted value is [2.43246111 1.94270121 3.05122675 2.27409415 1.88529382 2.05105341
1.95591917 2.24630393 0.98164747 1.85994729 2.59436239 2.45190539
2.24714164 1.58826472 2.00077745 3.60183883 2.24182428 1.41713672
2.47498893 2.12374981 2.80733919 1.46177478 0.89939607 2.08478164
2.53341001 1.4650218 3.10725377 2.49208163 2.02484279 2.8359565] and Actual value is [
2.43209, 1.9429599999999998, 3.05137, 2.27394, 1.885009999999999, 2.05125, 1.95637000000
00002, 2.2463900000000003, 0.98195, 1.8604, 2.5945, 2.451759999999997, 2.24743, 1.58782,
2.00073, 3.6021400000000003, 2.24173, 1.41723, 2.4748900000000003, 2.12367, 2.80790999999
9997, 1.46181, 0.89991, 2.08528, 2.5332, 1.46494, 3.107090000000004, 2.4920400000000003
, 2.025, 2.8360000000000003]

Mean absolute error:- 0.00022490252896161984
Mean squared error:- 7.561681016381965e-08
Root mean squared error:- 0.0002749851089855952
r2 Score:- 0.9999997843062606

At random state 410 the model performs very well
At random state 410
Training score is
0.9999997261631932
Predicted value is [2.6344291 2.49202731 2.70219961 3.08895173 2.24179981 2.74282122
3.19112476 2.51772482 0.98169044 1.92340109 2.09979133 2.11814429
2.86711226 2.75460991 1.57162561 2.31987839 2.27554581 1.86437054
1.89855506 2.06386414 1.59901008 1.75332333 2.32374301 2.51750685
2.09023053 3.26051814 2.32314781 1.5882483 1.78525226 2.10994011] and Actual value is [

2.6343, 2.4920400000000003, 2.70201, 3.08854, 2.24173, 2.74255, 3.1913099999999996, 2.51767, 0.98195, 1.92313, 2.10017, 2.11773, 2.86712, 2.75414, 1.5714, 2.31945, 2.27513, 1.86399, 1.89894, 2.06367, 1.59927, 1.7536, 2.32407, 2.5173799999999997, 2.0906599999999997, 3.26001, 2.32323, 1.58782, 1.78555, 2.11032]

Mean absolute error:- 0.0002757033734529328

Mean squared error:- 9.619200873905723e-08

Root mean squared error:- 0.0003101483656881932

r2 Score:- 0.9999996368683636

At random state 411 the model performs very well

At random state 411

Training score is

0.9999997416555901

Predicted value is [2.11349451 1.95592571 2.32129688 2.18859524 1.57158439 1.59900756 2.53915758 1.68162617 2.51750258 2.24717398 2.05116539 1.59860113 2.85756475 1.95073179 1.87666839 2.37158324 2.84823159 1.6949118 2.24626956 1.38093391 1.87872451 1.88533574 1.95256993 1.42777898 2.45364573 2.89328638 2.45189568 2.23225016 2.63445065 1.83347221] and Actual value is [2.1139900000000003, 1.9563700000000002, 2.3214200000000003, 2.18896, 1.5714, 1.59927, 2.5394200000000002, 1.68135, 2.5173799999999997, 2.24743, 2.05125, 1.5988799999999999, 2.85737, 1.95071, 1.8763400000000001, 2.3711900000000004, 2.84848, 1.6944, 2.2463900000000003, 1.38079, 1.87877, 1.8850099999999999, 1.9521, 1.42766, 2.4537299999999997, 2.89319, 2.4517599999999997, 2.2327, 2.6343, 1.83302]

Mean absolute error:- 0.00024823453446170727

Mean squared error:- 8.239544453666487e-08

Root mean squared error:- 0.00028704606692422186

r2 Score:- 0.999995271774922

At random state 412 the model performs very well

At random state 412

Training score is

0.9999997129087027

Predicted value is [2.11816052 2.53916664 2.27545813 2.53338272 2.79882032 2.00077186 1.83346386 3.60177458 2.32304286 1.88502911 2.32131467 3.19104312 1.62256033 1.80034539 1.73927894 1.26496524 1.73806087 1.63818584 2.4144819 2.23772939 2.86708183 1.8511122 2.63447654 2.61951366 2.51767964 1.87659637 2.02492491 2.70212907 2.0902681 0.67148089] and Actual value is [2.11773, 2.5394200000000002, 2.27513, 2.5332, 2.79832, 2.00073, 1.83302, 3.60214000000000003, 2.32323, 1.8854099999999998, 2.3214200000000003, 3.1913099999999996, 1.62215, 1.8010099999998, 1.7393299999999998, 1.26462, 1.7379900000000001, 1.63794, 2.4148400000000003, 2.2374099999999997, 2.86712, 1.851, 2.6343, 2.61955, 2.51767, 1.8763400000000001, 2.0251799999999998, 2.70201, 2.0906599999999997, 0.67108]

Mean absolute error:- 0.0002582702142409373

Mean squared error:- 9.230398719639791e-08

Root mean squared error:- 0.0003038157125568029

r2 Score:- 0.99999716646098

At random state 413 the model performs very well

At random state 413

Training score is

0.9999996791448131

Predicted value is [0.67141199 2.45362657 1.79317284 2.32303141 2.79880666 3.03483073 2.23776155 2.26426906 2.86705955 2.83593343 2.24710151 2.50959036 1.7852632 2.32133743 2.6195696 0.6545124 2.53919558 2.0997604 1.8003402 3.19108532 2.12499135 2.2418558 2.50994635 3.26044407 2.70212934 2.32380934 0.98176481 1.46510402 2.37159962 1.97549201] and Actual value is [0.67108, 2.4537299999999997, 1.79293, 2.32323, 2.79832, 3.035, 2.2374099999999997, 2.26425, 2.86712, 2.8360000000000003, 2.24729, 2.51011, 1.78555, 2.3214200000000003, 2.61955, 0.6542899999999999, 2.5394200000000002, 2.10017, 1.8010099999999998, 3.1913099999999996, 2.12466, 2.24173, 2.51009, 3.26001, 2.70201, 2.32407, 0.98195, 1.46494, 2.3711900000000004, 1.9757]

Mean absolute error:- 0.00024200351484228907

Mean squared error:- 8.225575104475692e-08

Root mean squared error:- 0.0002868026343058183

r2 Score:- 0.999997973138177

At random state 414 the model performs very well

At random state 414

Training score is

0.9999996902386975

Predicted value is [1.94928755 2.50989097 1.41717486 2.12378099 2.86701518 3.19109666
0.65451934 1.89856783 2.02482761 2.89319867 1.95075271 2.47497855
1.38097274 3.17764025 2.32382741 2.70219171 1.9528948 2.74282031
2.53343589 2.30873053 2.45364377 1.26501335 1.95244075 2.67777968
2.23774591 2.11562154 1.87967068 2.84828715 1.86611569 2.44217195] and Actual value is [
1.9493900000000002, 2.51009, 1.41723, 2.12367, 2.86712, 3.1913099999999996, 0.654289999999
99999, 1.89894, 2.025, 2.89319, 1.95071, 2.4748900000000003, 1.38079, 3.17728, 2.32407, 2
.70201, 1.95335, 2.74255, 2.5332, 2.30919, 2.453729999999997, 1.26462, 1.9521, 2.67782,
2.237409999999997, 2.1156900000000003, 1.879959999999999, 2.84848, 1.86565, 2.44191]

Mean absolute error:- 0.0002187526360305836

Mean squared error:- 6.528004889210945e-08

Root mean squared error:- 0.00025549960644218116

r2 Score:- 0.999997963047592

At random state 415 the model performs very well

At random state 415

Training score is

0.99999716841116

Predicted value is [2.79063188 1.95599162 1.73924882 1.86006387 3.05123281 2.46515719
1.42785868 1.34733229 3.1071599 2.48653973 1.64833337 3.08884989
1.75872489 2.49205354 2.09020301 2.63442636 2.44223027 3.03487337
2.27549806 1.86607563 2.24629652 1.92342221 1.57163586 3.26050384
1.97545052 2.09978761 2.74278959 1.88524644 2.13140718 1.87883905] and Actual value is [
2.79094, 1.9563700000000002, 1.7393299999999998, 1.8604, 3.05137, 2.4653099999999997, 1.4
2766, 1.34759, 3.10712, 2.48676, 1.6488, 3.08854, 1.75873, 2.4920400000000003, 2.09065999
9999997, 2.6343, 2.44191, 3.035, 2.27513, 1.86565, 2.2463900000000003, 1.92313, 1.5714,
3.26001, 1.9757, 2.10017, 2.74255, 1.885009999999999, 2.1309, 1.87877]

Mean absolute error:- 0.0002509656440645639

Mean squared error:- 8.3575670299754e-08

Root mean squared error:- 0.0002890945698205935

r2 Score:- 0.999996983408265

At random state 416 the model performs very well

At random state 416

Training score is

0.999997201702114

Predicted value is [2.75465072 2.48652538 2.32315124 3.08892293 1.61620292 2.89326517
3.10744683 2.86704948 1.84414912 1.46504682 0.98177062 2.08482926
1.7192377 1.85115899 2.51780643 1.87967041 1.8850336 2.12516192
1.24113654 2.13136822 1.69492045 2.43856332 1.99185172 2.79065121
2.27559402 3.0348681 1.86963178 2.44687541 2.26420568 2.2664456] and Actual value is [
2.75414, 2.48676, 2.32323, 3.08854, 1.615829999999999, 2.89319, 3.107090000000004, 2.86
712, 1.84408, 1.46494, 0.98195, 2.08528, 1.719559999999998, 1.851, 2.51767, 1.8799599999
999999, 1.885409999999998, 2.12466, 1.24074, 2.1309, 1.6944, 2.43872, 1.9917200000000002
, 2.79094, 2.27513, 3.035, 1.869840000000002, 2.4464900000000003, 2.26425, 2.26646]

Mean absolute error:- 0.0002628286570358518

Mean squared error:- 9.406488051111709e-08

Root mean squared error:- 0.0003066999845306763

r2 Score:- 0.999996725986013

At random state 417 the model performs very well

At random state 417

Training score is

0.999997406455401

Predicted value is [1.24111423 1.86441486 1.41719509 3.26045564 2.04400418 2.31991041
2.02487514 1.8852902 2.24713481 1.88963002 2.13134811 1.61621355
1.94941074 2.02501434 1.95264696 1.75871837 2.27560842 2.27409434
1.7392938 2.51777547 2.20150215 2.26651411 1.69495136 2.21121346
2.1237631 1.46507366 2.49204301 2.0902393 0.89939106 2.26428452] and Actual value is [
1.24074, 1.86399, 1.41723, 3.26001, 2.043840000000003, 2.31945, 2.025, 1.885009999999999

9, 2.24729, 1.8893099999999998, 2.1309, 1.615829999999999, 1.9493900000000002, 2.0251799
999999998, 1.9521, 1.75873, 2.27513, 2.27394, 1.7393299999999998, 2.51767, 2.20173, 2.266
46, 1.6944, 2.21126, 2.12367, 1.46494, 2.4920400000000003, 2.0906599999999997, 0.89991, 2
.26425]

Mean absolute error:- 0.00024064589038177062
Mean squared error:- 9.183868661198071e-08
Root mean squared error:- 0.00030304898384911425
r2 Score:- 0.9999994999289974

At random state 418 the model performs very well

At random state 418

Training score is

0.9999997150742681

Predicted value is [2.67777312 1.68154039 1.73925285 1.97548608 1.86605902 3.08888003
1.59895984 2.26648348 2.74281412 0.89934728 2.89328366 2.76616834
1.34731318 1.94934839 2.02482568 1.88957062 0.67137511 2.32376805
1.59856116 1.7614288 2.2014923 3.1911004 2.04398572 2.3715807
2.06384885 1.8850239 2.20792052 2.0510772 1.99181696 2.11811562] and Actual value is [
2.67782, 1.68135, 1.7393299999999998, 1.9757, 1.86565, 3.08854, 1.59927, 2.26646, 2.74255
, 0.89991, 2.89319, 2.76579, 1.34759, 1.9493900000000002, 2.025, 1.8893099999999998, 0.67
108, 2.32407, 1.5988799999999999, 1.76145, 2.20173, 3.1913099999999996, 2.0438400000000000
3, 2.3711900000000004, 2.06367, 1.8854099999999998, 2.20857, 2.05125, 1.9917200000000002,
2.11773]

Mean absolute error:- 0.00024846248944981143
Mean squared error:- 8.434545697103613e-08
Root mean squared error:- 0.0002904228933314936
r2 Score:- 0.9999997278520725

At random state 419 the model performs very well

At random state 419

Training score is

0.9999997101081582

Predicted value is [1.95591747 1.41717157 2.50995679 3.08885689 2.10999776 1.5703118
1.59569686 2.32133086 2.00078142 1.76143555 2.45367575 2.79883291
2.51768738 2.47503472 2.82368101 1.78520171 2.74282114 0.98169934
2.46518864 3.0348833 3.10730793 1.88500526 2.48667221 1.80036905
1.46180986 1.84409531 2.08475102 2.86702479 1.87662801 2.76615386] and Actual value is [
1.9563700000000002, 1.41723, 2.51009, 3.08854, 2.11032, 1.57059, 1.59541, 2.3214200000000
003, 2.00073, 1.76145, 2.4537299999999997, 2.79832, 2.51767, 2.4748900000000003, 2.82334,
1.78555, 2.74255, 0.98195, 2.4653099999999997, 3.035, 3.1070900000000004, 1.8854099999999
998, 2.48676, 1.8010099999999998, 1.46181, 1.84408, 2.08528, 2.86712, 1.8763400000000001,
2.76579]

Mean absolute error:- 0.0002274904896111522
Mean squared error:- 8.081775505618256e-08
Root mean squared error:- 0.00028428463739038477
r2 Score:- 0.9999997301661114

At random state 420 the model performs very well

At random state 420

Training score is

0.9999997371793122

Predicted value is [1.86969913 2.113527 2.30867499 2.49205639 2.37159014 1.76139448
2.21125729 3.05116116 0.99845566 1.89854248 1.87873871 1.26498314
3.19109273 2.1156147 2.80732473 1.93108002 2.24629112 2.46560267
3.17759579 1.7383225 1.96974385 2.20790462 1.73925366 2.53341499
2.32377535 2.13138051 3.03481933 2.43855189 2.63438291 1.88499844] and Actual value is [
1.8698400000000002, 2.1139900000000003, 2.30919, 2.4920400000000003, 2.3711900000000004,
1.76145, 2.21126, 3.05137, 0.99895, 1.89894, 1.87877, 1.26462, 3.191309999999996, 2.1156
900000000003, 2.807909999999997, 1.9312900000000002, 2.2463900000000003, 2.4657, 3.17728
, 1.73797, 1.9699400000000002, 2.20857, 1.7393299999999998, 2.5332, 2.32407, 2.1309, 3.03
5, 2.43872, 2.6343, 1.8854099999999998]

Mean absolute error:- 0.00026041206612577766
Mean squared error:- 1.0042137502763473e-07
Root mean squared error:- 0.0003168933180545698
r2 Score:- 0.9999996118482405

At random state 421 the model performs very well

At random state 421

Training score is

0.9999997418161072

Predicted value is [2.12371219 2.4749234 2.75450812 0.99836074 1.69477557 1.46166958
1.38098333 1.85110197 2.26421445 1.85994587 2.53918909 1.88954951
2.46511383 2.4536161 1.42786703 2.05111072 1.99179559 0.89934753
2.08471913 2.79883592 1.93109349 1.95072724 1.76144083 1.75333193
2.41446595 1.95294483 2.50959375 2.04401432 2.43848963 2.44221758] and Actual value is [
2.12367, 2.4748900000000003, 2.75414, 0.99895, 1.6944, 1.46181, 1.38079, 1.851, 2.26425,
1.8604, 2.5394200000000002, 1.889309999999998, 2.465309999999997, 2.453729999999997, 1
.42766, 2.05125, 1.9917200000000002, 0.89991, 2.08528, 2.79832, 1.9312900000000002, 1.950
71, 1.76145, 1.7536, 2.4148400000000003, 1.95335, 2.51011, 2.0438400000000003, 2.43872, 2
.44191]

Mean absolute error:- 0.0002558103124942127

Mean squared error:- 9.628116885368659e-08

Root mean squared error:- 0.0003102920702397768

r2 Score:- 0.9999995579668394

At random state 422 the model performs very well

At random state 422

Training score is

0.9999997192305204

Predicted value is [1.34728719 0.99840434 1.88527316 2.53338256 2.83594726 2.24706432
1.99179838 2.32131839 1.62253475 2.3230623 2.09981525 2.47497146
3.60188408 1.95847832 1.96940676 2.59438683 2.27543592 3.17760192
2.48660257 2.27403028 2.24710248 1.57033565 1.83348002 1.95598081
2.76617176 1.85994954 2.3715739 1.97546901 2.893213 2.00075331] and Actual value is [
1.34759, 0.99895, 1.8850099999999999, 2.5332, 2.8360000000000003, 2.24729, 1.991720000000
002, 2.3214200000000003, 1.62215, 2.32323, 2.10017, 2.4748900000000003, 3.602140000000000
03, 1.95812, 1.9696099999999999, 2.5945, 2.27513, 3.17728, 2.48676, 2.27394, 2.24743, 1.5
7059, 1.83302, 1.9563700000000002, 2.76579, 1.8604, 2.3711900000000004, 1.9757, 2.89319,
2.00073]

Mean absolute error:- 0.00024906576200921883

Mean squared error:- 8.115038682662874e-08

Root mean squared error:- 0.000284869069620815

r2 Score:- 0.9999997023853828

At random state 423 the model performs very well

At random state 423

Training score is

0.999999722236788

Predicted value is [3.10712199 2.20149274 2.12502902 2.67778229 2.2753826 1.44421529
2.70214266 2.79880383 2.80738719 1.59897602 2.04405485 2.48662226
1.42789226 1.38098118 2.86707021 1.46178973 2.23236866 1.88499686
2.44686909 1.8441538 2.85764223 2.26646464 1.62258202 1.73795849
2.24712559 2.61955748 2.23774832 1.95298049 2.00079713 2.53921982] and Actual value is [
3.10712, 2.20173, 2.12466, 2.67782, 2.27513, 1.44395, 2.70201, 2.79832, 2.80790999999999
7, 1.59927, 2.0438400000000003, 2.48676, 1.42766, 1.38079, 2.86712, 1.46181, 2.2327, 1.88
54099999999998, 2.4464900000000003, 1.84408, 2.85737, 2.26646, 1.62215, 1.737990000000000
1, 2.24729, 2.61955, 2.237409999999997, 1.95335, 2.00073, 2.5394200000000002]

Mean absolute error:- 0.00021760115642260509

Mean squared error:- 7.040309859788261e-08

Root mean squared error:- 0.000265335822304269

r2 Score:- 0.9999996984959644

At random state 424 the model performs very well

At random state 424

Training score is

0.9999996967367413

Predicted value is [2.59440451 1.99181051 2.26425422 3.08887589 2.21122612 1.93111502
1.95252309 2.27549043 2.22003979 2.27408721 2.47498713 0.99845289
2.02485571 2.32132538 1.26495272 1.86000594 2.50964427 0.98175341
1.75871381 2.85762845 2.30875305 0.67139744 1.46505367 1.73830342

2.23234449 3.10734682 2.4536722 1.61619179 2.0249827 3.17761706] and Actual value is [2.5945, 1.9917200000000002, 2.26425, 3.08854, 2.21126, 1.9312900000000002, 1.9521, 2.27513, 2.21978, 2.27394, 2.4748900000000003, 0.99895, 2.025, 2.3214200000000003, 1.26462, 1.8604, 2.51011, 0.98195, 1.75873, 2.85737, 2.30919, 0.67108, 1.46494, 1.73797, 2.2327, 3.107090000000004, 2.4537299999999997, 1.6158299999999999, 2.0251799999999998, 3.17728]

Mean absolute error:- 0.00023967236161874425

Mean squared error:- 7.766093167726054e-08

Root mean squared error:- 0.0002786771100705269

r2 Score:- 0.99999785128723

At random state 425 the model performs very well

At random state 425

Training score is

0.999997063874975

Predicted value is [1.5716547 2.67616617 1.94268473 1.88958937 1.75332257 2.4484274 2.48653192 1.73929298 1.46169812 2.51748972 1.95596408 2.67776848 1.58827442 1.46502918 2.63437409 2.7906724 1.57037616 2.24709559 1.87873161 1.75873401 1.87966634 2.04402703 2.02486959 1.71924103 2.43854538 3.05115669 3.60181996 1.79307983 2.10999247 2.22004717] and Actual value is [1.5714, 2.67585, 1.9429599999999998, 1.8893099999999998, 1.7536, 2.44876, 2.48676, 1.739329999999998, 1.46181, 2.5173799999999997, 1.9563700000000002, 2.67782, 1.58782, 1.46494, 2.6343, 2.79094, 1.57059, 2.24729, 1.87877, 1.75873, 1.8799599999999999, 2.0438400000000003, 2.025, 1.7195599999999998, 2.43872, 3.05137, 3.6021400000000003, 1.79293, 2.11032, 2.21978]

Mean absolute error:- 0.0002132730371474286

Mean squared error:- 5.8255718095324974e-08

Root mean squared error:- 0.00024136221347867393

r2 Score:- 0.999997697655016

At random state 426 the model performs very well

At random state 426

Training score is

0.999997054801555

Predicted value is [2.0997698 1.79310076 2.3230931 1.88960094 2.46514352 2.23233438 2.02484456 1.68431071 1.63814138 0.65453443 3.03480137 1.96943107 2.79069189 1.87966437 1.38095852 2.12505758 2.50986252 3.60180005 2.7427809 2.82361686 1.24117994 2.22003326 1.73799527 2.48656201 1.86610538 3.10724501 2.20150485 2.20789651 1.95597829 2.44213586] and Actual value is [2.10017, 1.79293, 2.32323, 1.8893099999999998, 2.4653099999999997, 2.2327, 2.025, 1.68435, 1.63794, 0.6542899999999999, 3.035, 1.9696099999999999, 2.79094, 1.8799599999999999, 1.38079, 2.12466, 2.51009, 3.6021400000000003, 2.74255, 2.82334, 1.24074, 2.21978, 1.737990000000001, 2.48676, 1.86565, 3.1070900000000004, 2.20173, 2.20857, 1.9563700000000002, 2.44191]

Mean absolute error:- 0.0002585697206200795

Mean squared error:- 8.404406454169232e-08

Root mean squared error:- 0.00028990354351351473

r2 Score:- 0.999997534862194

At random state 427 the model performs very well

At random state 427

Training score is

0.999997216723129

Predicted value is [2.46513905 2.45183392 2.02497696 1.75330502 2.75457725 2.67775421 2.83594796 2.11816912 1.38093259 2.80739433 2.6344125 1.73833944 1.64832168 1.9525237 1.87662591 1.73793056 1.46508093 2.8670554 2.09983422 2.27413727 2.45368812 3.10732549 2.18859374 2.26642836 1.75875212 1.59855745 1.24115614 2.84822036 2.4866016 1.97543693] and Actual value is [2.4653099999999997, 2.4517599999999997, 2.0251799999999998, 1.7536, 2.75414, 2.67782, 2.8360000000000003, 2.11773, 1.38079, 2.8079099999999997, 2.6343, 1.73797, 1.6488, 1.9521, 1.8763400000000001, 1.7379900000000001, 1.46494, 2.86712, 2.10017, 2.27394, 2.4537299999999997, 3.1070900000000004, 2.18896, 2.26646, 1.75873, 1.5988799999999999, 1.24074, 2.84848, 2.48676, 1.9757]

Mean absolute error:- 0.00023268152087441892

Mean squared error:- 7.6347616222324e-08

Root mean squared error:- 0.00027631072404509383

r2 Score:- 0.999999688361657

At random state 428 the model performs very well

At random state 428

Training score is

0.9999997471935781

Predicted value is [2.61946444 2.50957831 1.24123315 1.94943708 1.85107519 1.73931129

2.46551846 1.57037297 2.43860056 3.08878552 2.20139443 2.02499058

1.83350304 1.89858186 1.95845459 1.62260944 1.26498508 2.11348098

2.32373685 2.02488628 2.23227953 1.46182723 1.88959461 2.00078422

1.34732524 2.41446258 1.75331024 2.44840026 1.57166127 1.92339068] and Actual value is [

2.61955, 2.51011, 1.24074, 1.9493900000000002, 1.851, 1.7393299999999998, 2.4657, 1.57059

, 2.43872, 3.08854, 2.20173, 2.025179999999998, 1.83302, 1.89894, 1.95812, 1.62215, 1.26

462, 2.1139900000000003, 2.32407, 2.025, 2.2327, 1.46181, 1.8893099999999998, 2.00073, 1.

34759, 2.4148400000000003, 1.7536, 2.44876, 1.5714, 1.92313]

Mean absolute error:- 0.0002695410765799563

Mean squared error:- 9.562074668440918e-08

Root mean squared error:- 0.0003092260446411479

r2 Score:- 0.9999994667210279

At random state 429 the model performs very well

At random state 429

Training score is

0.999999714817817

Predicted value is [1.38094238 2.23231392 1.94267724 2.89314019 2.09028049 1.73927054

3.10703151 2.37158524 2.43852959 3.10715677 2.53919714 1.88528544

1.7614567 1.24117553 1.96972872 2.08473385 1.78522993 2.8073736

3.05117576 2.86693448 2.0997521 2.18864638 2.23772665 2.82361542

2.53340114 2.20149732 1.95290385 1.44417821 1.83336358 0.67145519] and Actual value is [

1.38079, 2.2327, 1.9429599999999998, 2.89319, 2.0906599999999997, 1.7393299999999998, 3.1

0712, 2.3711900000000004, 2.43872, 3.1070900000000004, 2.5394200000000002, 1.8850099999999999

9999, 1.76145, 1.24074, 1.9699400000000002, 2.08528, 1.78555, 2.8079099999999997, 3.05137

, 2.86712, 2.10017, 2.18896, 2.2374099999999997, 2.82334, 2.5332, 2.20173, 1.95335, 1.443

95, 1.83302, 0.67108]

Mean absolute error:- 0.00027118790510857933

Mean squared error:- 9.270645901221146e-08

Root mean squared error:- 0.0003044773538577401

r2 Score:- 0.9999997184401336

At random state 430 the model performs very well

At random state 430

Training score is

0.9999996705793114

Predicted value is [2.67620217 2.89322495 3.05124288 2.11813474 3.08887821 2.00077426

1.79311929 2.7021892 2.27544828 2.86704731 1.59897904 2.45364005

2.44219372 3.60185766 2.53342258 2.51751501 1.88959917 1.5716472

1.7192575 1.46172212 2.83596443 2.24710094 1.73831546 2.11559346

2.02500692 1.8787698 1.75872412 2.27407741 3.19110402 1.41715162] and Actual value is [

2.67585, 2.89319, 3.05137, 2.11773, 3.08854, 2.00073, 1.79293, 2.70201, 2.27513, 2.86712,

1.59927, 2.4537299999999997, 2.44191, 3.602140000000003, 2.5332, 2.5173799999999997, 1.8

8930999999999998, 1.5714, 1.7195599999999998, 1.46181, 2.8360000000000003, 2.24729, 1.7379

7, 2.1156900000000003, 2.0251799999999998, 1.87877, 1.75873, 2.27394, 3.1913099999999996,

1.41723]

Mean absolute error:- 0.00018532738777163142

Mean squared error:- 4.74634807086617e-08

Root mean squared error:- 0.00021786115006733464

r2 Score:- 0.999999848071199

At random state 431 the model performs very well

At random state 431

Training score is

0.9999997267765837

Predicted value is [2.31987931 3.08890806 2.82365239 2.49199603 1.88521276 1.42784293

1.97550338 2.79072876 2.41451859 3.03485106 2.06392429 1.73929957

2.20149139 2.44683837 1.62257749 1.69485451 1.71925898 2.43852498

1.86609913 0.89941513 3.05121854 1.78527335 2.45189789 1.99178358
1.59896986 2.0847602 1.58823986 2.46515964 2.51769196 2.85765529] and Actual value is [
2.31945, 3.08854, 2.82334, 2.492040000000003, 1.8850099999999999, 1.42766, 1.9757, 2.790
94, 2.4148400000000003, 3.035, 2.06367, 1.739329999999998, 2.20173, 2.4464900000000003,
1.62215, 1.6944, 1.7195599999999998, 2.43872, 1.86565, 0.89991, 3.05137, 1.78555, 2.45175
9999999997, 1.991720000000002, 1.59927, 2.08528, 1.58782, 2.465309999999997, 2.51767,
2.85737]

Mean absolute error:- 0.0002646125370817024

Mean squared error:- 8.915631685912014e-08

Root mean squared error:- 0.00029859055051880014

r2 Score:- 0.9999996826478141

At random state 432 the model performs very well

At random state 432

Training score is

0.999999770588124

Predicted value is [2.12378752 0.99844966 1.97550854 2.51758788 1.86002137 1.8853327

2.09023839 2.04406407 1.71926065 2.37164649 1.61618382 1.5703272

1.59897644 2.11813931 1.76134562 1.58830606 2.46562922 1.63318898

2.4865024 2.18864734 2.80732603 1.63809417 2.41455773 2.12504002

2.446686404 2.6196368 2.11357226 1.87660537 1.95298315 2.13143534] and Actual value is [

2.12367, 0.99895, 1.9757, 2.5173799999999997, 1.8604, 1.8850099999999999, 2.0906599999999999

997, 2.0438400000000003, 1.7195599999999998, 2.3711900000000004, 1.6158299999999999, 1.57

059, 1.59927, 2.11773, 1.76145, 1.58782, 2.4657, 1.6332799999999998, 2.48676, 2.18896, 2.

8079099999999997, 1.63794, 2.4148400000000003, 2.12466, 2.4464900000000003, 2.61955, 2.11

39900000000003, 1.8763400000000001, 1.95335, 2.1309]

Mean absolute error:- 0.00030695306844360875

Mean squared error:- 1.1308000401863363e-07

Root mean squared error:- 0.0003362737040249113

r2 Score:- 0.9999992438081988

At random state 433 the model performs very well

At random state 433

Training score is

0.9999997159180477

Predicted value is [2.11000077 1.24116635 1.78523052 2.24629622 0.67141006 2.24179679

2.85762852 1.95294291 0.6545063 2.37158177 2.11809382 2.22000808

2.43856282 1.97550032 1.88525851 0.98173775 0.89941856 2.74278591

2.80737835 2.11352486 1.89854936 1.8642652 1.598949 1.92336639

3.10721649 2.08475436 1.62256545 2.50963073 2.47499646 2.45362843] and Actual value is [

2.11032, 1.24074, 1.78555, 2.246390000000003, 0.67108, 2.24173, 2.85737, 1.95335, 0.6542

899999999999, 2.371190000000004, 2.11773, 2.21978, 2.43872, 1.9757, 1.8850099999999999,

0.98195, 0.89991, 2.74255, 2.80790999999997, 2.1139900000000003, 1.89894, 1.86399, 1.59

927, 1.92313, 3.107090000000004, 2.08528, 1.62215, 2.51011, 2.4748900000000003, 2.453729

9999999997]

Mean absolute error:- 0.00029803826348408317

Mean squared error:- 1.0654055177387126e-07

Root mean squared error:- 0.00032640550205820864

r2 Score:- 0.9999997146168697

At random state 434 the model performs very well

At random state 434

Training score is

0.9999997260591947

Predicted value is [2.51760999 1.46503547 2.32378543 0.98164513 2.50986079 2.53918984

2.06397697 2.59437689 2.45359082 1.57169267 2.7545416 2.30866387

1.46169575 1.68431153 1.96969441 2.26644432 2.13140319 1.95066289

2.44220554 2.44840866 1.94270754 2.5333633 2.50958246 2.45184421

3.05124769 1.86969168 2.46512152 1.85995916 2.26421328 1.4278361] and Actual value is [

2.51767, 1.46494, 2.32407, 0.98195, 2.51009, 2.539420000000002, 2.06367, 2.5945, 2.45372

9999999997, 1.5714, 2.75414, 2.30919, 1.46181, 1.68435, 1.969940000000002, 2.26646, 2.1

309, 1.95071, 2.44191, 2.44876, 1.942959999999998, 2.5332, 2.51011, 2.4517599999999997,

3.05137, 1.8698400000000002, 2.465309999999997, 1.8604, 2.26425, 1.42766]

Mean absolute error:- 0.00022484640454197477

Mean squared error:- 7.203113788018902e-08

Root mean squared error:- 0.00026838617304210925

r2 Score:- 0.9999996553525295

At random state 435 the model performs very well

At random state 435

Training score is

0.9999997374657732

Predicted value is [2.12512174 3.10717586 2.46512817 2.11357827 1.44418971 2.21123059

1.61613501 1.59579917 2.76620916 2.43251811 1.95852653 1.75330931

1.87657208 1.64831224 1.71927663 3.10740345 1.85116115 2.79884208

3.17760212 1.94277909 2.32380134 1.99182615 0.98168488 1.95308024

1.57165433 2.24710023 2.24190759 2.1181875 1.92343387 1.86969883] and Actual value is [

2.12466, 3.10712, 2.4653099999999997, 2.1139900000000003, 1.44395, 2.21126, 1.615829999999

99999, 1.59541, 2.76579, 2.43209, 1.95812, 1.7536, 1.8763400000000001, 1.6488, 1.71955999

99999998, 3.1070900000000004, 1.851, 2.79832, 3.17728, 1.9429599999999998, 2.32407, 1.991

72000000000002, 0.98195, 1.95335, 1.5714, 2.24743, 2.24173, 2.11773, 1.92313, 1.8698400000

000002]

Mean absolute error:- 0.00028985914617299564

Mean squared error:- 9.962837501939304e-08

Root mean squared error:- 0.00031563962840459853

r2 Score:- 0.9999996098402386

At random state 436 the model performs very well

At random state 436

Training score is

0.999999732326587

Predicted value is [2.2111756 2.45365044 2.46561314 1.57027832 0.89930475 1.42785226

1.87882983 2.02488138 1.73801889 1.95255273 2.86713223 2.32302831

1.46182631 1.86424762 2.11818058 2.24708542 1.95076852 1.88497901

2.32377615 2.79884858 1.73830505 1.57156468 1.59851128 1.34729032

2.5333773 1.75332737 3.03484165 1.800312 1.5957395 1.85109841] and Actual value is [

2.21126, 2.4537299999999997, 2.4657, 1.57059, 0.89991, 1.42766, 1.87877, 2.025179999999999

98, 1.7379900000000001, 1.9521, 2.86712, 2.32323, 1.46181, 1.86399, 2.11773, 2.24729, 1.9

5071, 1.8854099999999998, 2.32407, 2.79832, 1.73797, 1.5714, 1.5988799999999999, 1.34759,

2.5332, 1.7536, 3.035, 1.8010099999999998, 1.59541, 1.851]

Mean absolute error:- 0.00025191061212351447

Mean squared error:- 9.428887420966451e-08

Root mean squared error:- 0.00030706493484223256

r2 Score:- 0.9999995801270258

At random state 437 the model performs very well

At random state 437

Training score is

0.9999997332916742

Predicted value is [3.19114171 0.98170621 1.96937539 1.86002584 1.99172473 2.80733799

2.05105657 1.85112395 2.04408759 1.86612668 2.59439615 1.26503904

2.12503884 2.70211865 2.11814508 2.24703742 1.63319198 1.4279222

1.7587807 1.61623337 2.4749059 2.50956545 2.32380806 2.79881115

1.24127117 1.96966661 2.44224232 1.84418438 2.50990764 2.86706907] and Actual value is [

3.191309999999996, 0.98195, 1.969609999999999, 1.8604, 1.991720000000002, 2.8079099999

999997, 2.05125, 1.851, 2.043840000000003, 1.86565, 2.5945, 1.26462, 2.12466, 2.70201, 2

.11773, 2.24743, 1.633279999999998, 1.42766, 1.75873, 1.6158299999999999, 2.474890000000

0003, 2.51011, 2.32407, 2.79832, 1.24074, 1.9699400000000002, 2.44191, 1.84408, 2.51009,

2.86712]

Mean absolute error:- 0.00026832160711672085

Mean squared error:- 9.93962323205239e-08

Root mean squared error:- 0.00031527168017524804

r2 Score:- 0.9999996290994692

At random state 438 the model performs very well

At random state 438

Training score is

0.999999757017306

Predicted value is [2.43242667 3.19109646 3.10721097 1.73832015 1.44414915 2.50984195

1.46182248 2.41453205 1.86610904 2.09975724 1.94269571 2.44846704

2.12511526 2.00083694 1.59582886 2.32308071 1.86010781 2.23766905
1.95289875 2.26416641 2.1098761 1.84411313 1.34728417 2.45374166
2.20783219 2.18858908 1.26504408 2.32374696 1.92343707 1.78516625] and Actual value is [
2.43209, 3.1913099999999996, 3.107090000000004, 1.73797, 1.44395, 2.51009, 1.46181, 2.41
48400000000003, 1.86565, 2.10017, 1.9429599999999998, 2.44876, 2.12466, 2.00073, 1.59541,
2.32323, 1.8604, 2.2374099999999997, 1.95335, 2.26425, 2.11032, 1.84408, 1.34759, 2.45372
99999999997, 2.20857, 2.18896, 1.26462, 2.32407, 1.92313, 1.78555]

Mean absolute error:- 0.00029252076222102317
Mean squared error:- 1.102719404767264e-07
Root mean squared error:- 0.00033207219166429217
r2 Score:- 0.9999994333129937

At random state 439 the model performs very well

At random state 439

Training score is

0.9999996906616726

Predicted value is [2.20783957 3.05114803 2.61949629 2.86698435 2.50960674 0.67147852
1.76145269 2.74280529 1.59895254 3.19102453 1.87881801 2.76609743
1.87964415 3.6018093 1.95251261 1.58824245 2.41449657 1.95285877
2.12374412 3.08880556 2.24178098 2.26644851 2.11560252 2.67775169
1.73925972 2.09971372 2.04397284 1.34736296 2.79067926 2.823644] and Actual value is [
2.20857, 3.05137, 2.61955, 2.86712, 2.51011, 0.67108, 1.76145, 2.74255, 1.59927, 3.191309
9999999996, 1.87877, 2.76579, 1.8799599999999999, 3.6021400000000003, 1.9521, 1.58782, 2.
4148400000000003, 1.95335, 2.12367, 3.08854, 2.24173, 2.26646, 2.1156900000000003, 2.6778
2, 1.7393299999999998, 2.10017, 2.0438400000000003, 1.34759, 2.79094, 2.82334]

Mean absolute error:- 0.0002528416833214327

Mean squared error:- 9.371044119250782e-08

Root mean squared error:- 0.0003061216117697472

r2 Score:- 0.999997481944429

At random state 440 the model performs very well

At random state 440

Training score is

0.99999744430932

Predicted value is [2.09979535 1.88498895 2.32377687 2.5174708 1.59568383 2.51764334
2.11353414 1.87875452 1.84413588 2.48657665 1.34734889 1.86968151
2.32130449 1.87966726 2.00077567 1.86608016 2.82359563 2.49199531
2.89317904 1.44418251 2.2014678 2.05105141 2.32306816 1.9493416
2.06390085 2.5095858 2.80736626 1.9694015 1.57165835 2.31975304] and Actual value is [
2.10017, 1.8854099999999998, 2.32407, 2.5173799999999997, 1.59541, 2.51767, 2.11399000000
00003, 1.87877, 1.84408, 2.48676, 1.34759, 1.869840000000002, 2.321420000000003, 1.8799
599999999999, 2.00073, 1.86565, 2.82334, 2.492040000000003, 2.89319, 1.44395, 2.20173, 2.
.05125, 2.32323, 1.949390000000002, 2.06367, 2.51011, 2.8079099999999997, 1.969609999999
9999, 1.5714, 2.31945]

Mean absolute error:- 0.00022526205156353136

Mean squared error:- 7.285805266823355e-08

Root mean squared error:- 0.0002699223085782899

r2 Score:- 0.999995196885054

At random state 441 the model performs very well

At random state 441

Training score is

0.999997179388845

Predicted value is [1.42788118 2.06394185 2.32383395 2.53338769 3.60183931 2.04403897
1.46171647 3.26044921 3.05133626 2.44222324 1.96973516 2.48664617
2.24706642 1.83348634 2.32305512 1.62255171 1.87654621 1.8003937
1.85993474 2.67619612 1.68426017 2.47495953 2.86709109 1.95849045
0.99841935 1.73831688 1.99178526 2.09981096 2.51766351 2.53919511] and Actual value is [
1.42766, 2.06367, 2.32407, 2.5332, 3.602140000000003, 2.043840000000003, 1.46181, 3.260
01, 3.05137, 2.44191, 1.969940000000002, 2.48676, 2.24729, 1.83302, 2.32323, 1.62215, 1.
876340000000001, 1.801009999999998, 1.8604, 2.67585, 1.68435, 2.474890000000003, 2.867
12, 1.95812, 0.99895, 1.73797, 1.991720000000002, 2.10017, 2.51767, 2.5394200000000002]

Mean absolute error:- 0.0002535724430114035

Mean squared error:- 8.84770972790469e-08

Root mean squared error:- 0.00029745100391140837

r2 Score:- 0.9999997108424049

At random state 442 the model performs very well

At random state 442

Training score is

0.999999742629454

Predicted value is [1.95253248 3.08882863 2.24709805 1.87661133 2.18861855 1.5985536

2.2323034 1.87877018 1.95073334 2.11556491 2.67615126 1.76139956

2.84823254 1.71931333 2.44219827 1.84410014 1.9584737 1.57033238

1.46507339 1.79313595 2.12370995 2.09981708 2.11353281 1.57161634

2.00079622 2.11816664 2.67772712 1.95595307 2.47498196 2.53917527] and Actual value is [

1.9521, 3.08854, 2.24729, 1.8763400000000001, 2.18896, 1.5988799999999999, 2.2327, 1.8787

7, 1.95071, 2.1156900000000003, 2.67585, 1.76145, 2.84848, 1.719559999999998, 2.44191, 1

.84408, 1.95812, 1.57059, 1.46494, 1.79293, 2.12367, 2.10017, 2.1139900000000003, 1.5714,

2.00073, 2.11773, 2.67782, 1.9563700000000002, 2.4748900000000003, 2.5394200000000002]

Mean absolute error:- 0.00023060384526740011

Mean squared error:- 7.186041539997103e-08

Root mean squared error:- 0.00026806793056979237

r2 Score:- 0.9999995239486682

At random state 443 the model performs very well

At random state 443

Training score is

0.9999997086091129

Predicted value is [1.92336221 2.79886803 2.4655569 1.61621228 1.95596987 1.63809295

1.24121058 1.38098848 2.08476272 2.48668313 2.76615197 2.89321141

2.59440308 0.98171673 2.43247111 2.30871238 1.5716763 1.96938274

2.84829061 2.75453592 1.59894357 1.59860343 1.26498801 3.03488656

2.83599488 1.84417297 2.4536061 2.24189041 1.75872622 0.99844532] and Actual value is [

1.92313, 2.79832, 2.4657, 1.6158299999999999, 1.9563700000000002, 1.63794, 1.24074, 1.380

79, 2.08528, 2.48676, 2.76579, 2.89319, 2.5945, 0.98195, 2.43209, 2.30919, 1.5714, 1.9696

0999999999999, 2.84848, 2.75414, 1.59927, 1.5988799999999999, 1.26462, 3.035, 2.8360000000

000003, 1.84408, 2.4537299999999997, 2.24173, 1.75873, 0.99895]

Mean absolute error:- 0.0002586132612485785

Mean squared error:- 9.212639828361822e-08

Root mean squared error:- 0.0003035233076447643

r2 Score:- 0.9999997410453703

At random state 444 the model performs very well

At random state 444

Training score is

0.9999997534022256

Predicted value is [2.3230287 2.04401971 2.20141105 2.51763469 2.32128058 1.99177033

2.32374314 1.83345585 1.63806982 2.24625706 2.11813831 2.50954932

1.8796509 2.18859123 1.80042203 2.83590605 1.34729714 2.00077531

1.75870891 1.97543125 1.88496007 2.86702523 2.432453 1.8697056

1.87658591 2.59434115 2.80738982 2.44843348 3.03481071 2.24709394] and Actual value is [

2.32323, 2.0438400000000003, 2.20173, 2.51767, 2.3214200000000003, 1.9917200000000002, 2.

32407, 1.83302, 1.63794, 2.2463900000000003, 2.11773, 2.51011, 1.8799599999999999, 2.1889

6, 1.8010099999999998, 2.8360000000000003, 1.34759, 2.00073, 1.75873, 1.9757, 1.885409999

9999998, 2.86712, 2.43209, 1.8698400000000002, 1.8763400000000001, 2.5945, 2.807909999999

9997, 2.44876, 3.035, 2.24743]

Mean absolute error:- 0.00025753953619268947

Mean squared error:- 9.098865418947687e-08

Root mean squared error:- 0.00030164325649594236

r2 Score:- 0.9999993994463381

At random state 445 the model performs very well

At random state 445

Training score is

0.999999747322129

Predicted value is [1.95595815 2.02481106 1.59855925 1.64833058 2.22002321 1.95843187

2.50960623 0.89932471 1.71921895 2.43244317 2.75459029 2.20791957

2.51750715 2.82369137 1.68157562 1.73827787 2.0007886 3.17764793

2.53340517 2.08475604 1.75870218 2.61955514 2.2462502 1.87879416

2.4145133 3.60195731 1.95251567 2.67617434 2.24712369 2.76616628] and Actual value is [1.9563700000000002, 2.025, 1.5988799999999999, 1.6488, 2.21978, 1.95812, 2.51011, 0.89991, 1.7195599999999998, 2.43209, 2.75414, 2.20857, 2.5173799999999997, 2.82334, 1.68135, 1.73797, 2.00073, 3.17728, 2.5332, 2.08528, 1.75873, 2.61955, 2.2463900000000003, 1.87877, 2.4148400000000003, 3.6021400000000003, 1.9521, 2.67585, 2.24729, 2.76579]

Mean absolute error:- 0.00029955318322819985
Mean squared error:- 1.1657269929619077e-07
Root mean squared error:- 0.00034142744367755617
r2 Score:- 0.999995820480463

At random state 446 the model performs very well

At random state 446

Training score is

0.999997195549241

Predicted value is [1.87656366 2.12507274 2.32129428 1.88496251 1.73926359 2.83596362 2.43854275 1.59855838 3.17758366 2.24710781 2.44847227 1.96961082 1.64829729 1.34726924 2.32376717 2.06388646 1.38090872 1.26495889 1.41715628 2.11810408 1.87966339 2.0847659 2.26638686 2.67776936 1.78520015 1.97538231 2.32305066 0.65440928 2.26413548 1.96936669] and Actual value is [1.8763400000000001, 2.12466, 2.3214200000000003, 1.8854099999999998, 1.7393299999999998, 2.8360000000000003, 2.43872, 1.5988799999999999, 3.17728, 2.24729, 2.44876, 1.9699400000000002, 1.6488, 1.34759, 2.32407, 2.06367, 1.38079, 1.26462, 1.41723, 2.11773, 1.879959999999999, 2.08528, 2.26646, 2.67782, 1.78555, 1.9757, 2.32323, 0.6542899999999999, 2.26425, 1.9696099999999999]

Mean absolute error:- 0.0002473563675180035

Mean squared error:- 7.880931520045164e-08

Root mean squared error:- 0.0002807299684758498

r2 Score:- 0.999996820974814

At random state 447 the model performs very well

At random state 447

Training score is

0.999997105348951

Predicted value is [3.26049092 1.80040597 1.59857595 2.63450058 1.58825023 2.12505469 2.37158323 1.63812976 1.92341673 2.06390238 2.266484 1.87880816 1.75871554 3.10735461 2.75456324 2.21122111 2.02485823 1.89856967 2.70216236 2.61955753 0.67137832 2.24629856 2.67777211 2.44683693 3.0513299 3.19114392 2.79886058 1.8334652 2.49205352 2.41451821] and Actual value is [3.26001, 1.8010099999999998, 1.5988799999999999, 2.6343, 1.58782, 2.12466, 2.3711900000000004, 1.63794, 1.92313, 2.06367, 2.26646, 1.87877, 1.75873, 3.1070900000000004, 2.75414, 2.21126, 2.025, 1.89894, 2.70201, 2.61955, 0.67108, 2.2463900000000003, 2.67782, 2.4464900000000003, 3.05137, 3.1913099999999996, 2.79832, 1.83302, 2.4920400000000003, 2.414840000000003]

Mean absolute error:- 0.0002434603926422289

Mean squared error:- 8.911096660146508e-08

Root mean squared error:- 0.00029851460031540345

r2 Score:- 0.999997172891146

At random state 448 the model performs very well

At random state 448

Training score is

0.999996896267618

Predicted value is [2.11003936 3.60185804 1.80043308 1.59578359 2.84824124 2.61958312 2.09022105 1.63326549 2.89316437 2.24710493 0.67140826 2.23773455 2.5333909 1.87881461 3.08882189 1.79311938 1.71925342 2.8073772 2.48649138 1.78522952 1.5716511 2.754536 2.59438694 2.21126655 2.18863951 2.06385613 3.17758906 0.98173407 1.9584744 1.92339302] and Actual value is [2.11032, 3.6021400000000003, 1.8010099999999998, 1.59541, 2.84848, 2.61955, 2.0906599999999997, 1.6332799999999998, 2.89319, 2.24729, 0.67108, 2.2374099999999997, 2.5332, 1.87877, 3.08854, 1.79293, 1.7195599999999998, 2.8079099999999997, 2.48676, 1.78555, 1.5714, 2.75414, 2.5945, 2.21126, 2.18896, 2.06367, 3.17728, 0.98195, 1.95812, 1.92313]

Mean absolute error:- 0.00025509920242394366

Mean squared error:- 8.47709045430491e-08

Root mean squared error:- 0.0002911544341806408

r2 Score:- 0.999997830827706

At random state 449 the model performs very well

At random state 449

Training score is

0.9999997454707431

Predicted value is [2.45359575 2.41447709 2.20143185 2.51761425 2.50957518 2.74275861
1.73834051 1.62258331 2.80739025 1.88499043 1.21362764 1.99173591
2.49199044 2.21120403 1.96967239 1.7614587 2.02486732 2.06394727
2.24629279 1.69478547 1.73799722 0.98174101 2.11552136 1.84415613
2.22000822 1.4617624 1.9694002 1.94935933 2.32130463 1.80045391] and Actual value is [
2.4537299999999997, 2.4148400000000003, 2.20173, 2.51767, 2.51011, 2.74255, 1.73797, 1.62
215, 2.8079099999999997, 1.8854099999999998, 1.21305, 1.9917200000000002, 2.49204000000000
003, 2.21126, 1.9699400000000002, 1.76145, 2.025, 2.06367, 2.2463900000000003, 1.6944, 1.
7379900000000001, 0.98195, 2.1156900000000003, 1.84408, 2.21978, 1.46181, 1.96960999999999
999, 1.9493900000000002, 2.3214200000000003, 1.8010099999999998]

Mean absolute error:- 0.00022847911008123297

Mean squared error:- 8.353398511480114e-08

Root mean squared error:- 0.000289022464723421

r2 Score:- 0.9999995080662282

At random state 450 the model performs very well

At random state 450

Training score is

0.9999997321644922

Predicted value is [2.84826924 2.6761898 1.87661941 2.49204058 1.75864285 2.80743807
2.82362425 1.69486096 1.94270653 3.19105984 2.1155928 1.75333444
2.2471025 0.65451647 1.85101686 2.09975821 2.27403737 2.18865405
1.5985887 1.95594344 2.27545902 2.11349926 1.26494179 2.85760635
2.3198694 1.80033617 1.63816242 0.99844846 1.85994537 1.44411957] and Actual value is [
2.84848, 2.67585, 1.8763400000000001, 2.4920400000000003, 1.75873, 2.8079099999999997, 2.
82334, 1.6944, 1.9429599999999998, 3.1913099999999996, 2.1156900000000003, 1.7536, 2.2472
9, 0.6542899999999999, 1.851, 2.10017, 2.27394, 2.18896, 1.5988799999999999, 1.9563700000
00002, 2.27513, 2.1139900000000003, 1.26462, 2.85737, 2.31945, 1.8010099999999998, 1.637
94, 0.99895, 1.8604, 1.44395]

Mean absolute error:- 0.0002928106986580303

Mean squared error:- 1.0898089967340521e-07

Root mean squared error:- 0.0003301225525064975

r2 Score:- 0.999999655530109

At random state 451 the model performs very well

At random state 451

Training score is

0.9999997152087119

Predicted value is [1.59574252 2.32378357 2.37158059 1.34724685 2.44848229 2.20794298
0.89934031 0.65446126 3.10713593 2.13134373 2.79879309 3.08889168
1.96970665 2.0980948 1.86964648 2.7661966 1.84412165 1.87872102
2.41452528 1.85998317 3.17764974 2.47503547 1.88961398 2.24711787
2.2200581 2.75460642 2.48662307 1.96944351 3.0348964 1.41712686] and Actual value is [
1.59541, 2.32407, 2.371190000000004, 1.34759, 2.44876, 2.20857, 0.89991, 0.654289999999
999, 3.10712, 2.1309, 2.79832, 3.08854, 1.969940000000002, 2.10017, 1.869840000000002,
2.76579, 1.84408, 1.87877, 2.414840000000003, 1.8604, 3.17728, 2.474890000000003, 1.889
30999999999998, 2.24729, 2.21978, 2.75414, 2.48676, 1.9696099999999999, 3.035, 1.41723]

Mean absolute error:- 0.0002848323970220131

Mean squared error:- 1.046158366980497e-07

Root mean squared error:- 0.00032344371488413515

r2 Score:- 0.9999997148080376

At random state 452 the model performs very well

At random state 452

Training score is

0.999999745346229

Predicted value is [1.88963161 2.79884136 1.94931511 1.21367892 1.83346179 1.71927058
2.59441434 1.61626551 1.69481737 1.86612343 2.05115227 1.58827533
1.73932428 2.31980963 1.75872957 2.83598151 2.44845039 3.05127197
2.24709475 1.95075363 1.64844325 1.88521759 1.59894215 1.85105434

2.53921533 2.18869179 2.49198329 2.61949907 3.26043756 1.95294636] and Actual value is [1.8893099999999998, 2.79832, 1.9493900000000002, 1.21305, 1.83302, 1.7195999999999998, 2.5945, 1.6158299999999999, 1.6944, 1.86565, 2.05125, 1.58782, 1.7393299999999998, 2.31945, 1.75873, 2.8360000000000003, 2.44876, 3.05137, 2.24743, 1.95071, 1.6488, 1.885009999999999999, 1.59927, 1.851, 2.5394200000000002, 2.18896, 2.4920400000000003, 2.61955, 3.26001, 1.95335]

Mean absolute error:- 0.0002590691631436807

Mean squared error:- 9.87734763120156e-08

Root mean squared error:- 0.00031428247853038446

r2 Score:- 0.999995755094142

At random state 453 the model performs very well

At random state 453

Training score is

0.99999701295634

Predicted value is [2.21124047 1.57169789 2.308715 2.4655756 2.13139288 2.00075681

3.17763168 0.6714358 1.69478708 1.21366162 2.05110854 1.61625294

2.11810876 2.11006594 3.10722357 1.99172322 1.76150573 2.84830232

2.06398902 2.59441068 2.85766762 2.79885168 2.51748471 2.44843069

0.99846335 2.67622373 1.84419767 1.64844861 1.59895518 3.60182171] and Actual value is [

2.21126, 1.5714, 2.30919, 2.4657, 2.1309, 2.00073, 3.17728, 0.67108, 1.6944, 1.21305, 2.05125, 1.6158299999999999, 2.11773, 2.11032, 3.1070900000000004, 1.991720000000002, 1.76145, 2.84848, 2.06367, 2.5945, 2.85737, 2.79832, 2.5173799999999997, 2.44876, 0.99895, 2.67585, 1.84408, 1.6488, 1.59927, 3.6021400000000003]

Mean absolute error:- 0.0002781442306245774

Mean squared error:- 1.0407134237673733e-07

Root mean squared error:- 0.0003226009026285223

r2 Score:- 0.999997481869807

At random state 454 the model performs very well

At random state 454

Training score is

0.999997132919953

Predicted value is [3.10714305 1.950747 2.23235759 1.38095813 2.27547233 3.17762505

2.04404768 2.02486348 1.57036181 2.50992191 1.84414986 2.46517725

3.26048486 2.11814893 2.21124913 2.46560781 1.96944283 2.51752437

1.83342605 2.86706673 1.44419297 2.37158775 1.87880323 2.11357889

1.86608274 3.03488149 2.53341682 2.22003936 1.68430753 1.99181172] and Actual value is [

3.10712, 1.95071, 2.2327, 1.38079, 2.27513, 3.17728, 2.0438400000000003, 2.025, 1.57059, 2.51009, 1.84408, 2.4653099999999997, 3.26001, 2.11773, 2.21126, 2.4657, 1.9696099999999999, 2.5173799999999997, 1.83302, 2.86712, 1.44395, 2.371190000000004, 1.87877, 2.11399000000003, 1.86565, 3.035, 2.5332, 2.21978, 1.68435, 1.991720000000002]

Mean absolute error:- 0.00020718261093547092

Mean squared error:- 6.291809012129034e-08

Root mean squared error:- 0.00025083478650556095

r2 Score:- 0.999997344219949

At random state 455 the model performs very well

At random state 455

Training score is

0.9999972507856

Predicted value is [1.59900411 2.76615036 2.51754325 1.46505019 1.89853366 2.32130278

1.99179059 2.44215926 1.88536587 1.24113434 1.88500649 1.85991533

2.74272528 3.03479649 2.2013915 2.09026585 1.95592946 2.32372967

2.0249709 3.19105247 2.49210084 2.37162615 1.69485414 3.05122007

1.59575774 1.95069085 2.45361117 0.9816826 1.62257519 2.67769806] and Actual value is [

1.59927, 2.76579, 2.5173799999999997, 1.46494, 1.89894, 2.3214200000000003, 1.99172000000002, 2.44191, 1.8850099999999999, 1.24074, 1.8854099999999998, 1.8604, 2.74255, 3.035, 2.20173, 2.0906599999999997, 1.9563700000000002, 2.32407, 2.0251799999999998, 3.19130999999996, 2.4920400000000003, 2.371190000000004, 1.6944, 3.05137, 1.59541, 1.95071, 2.4537299999999997, 0.98195, 1.62215, 2.67782]

Mean absolute error:- 0.0002713913667577006

Mean squared error:- 9.174774466352889e-08

Root mean squared error:- 0.00030289890172057225

r2 Score:- 0.99999672120279

At random state 456 the model performs very well

At random state 456

Training score is

0.999999734359743

Predicted value is [1.89855665 2.43245998 2.70212079 1.92341415 2.49204997 2.27411419
2.45367762 2.75455776 2.23232254 2.59438457 2.02485672 2.44220221
2.4651726 1.24112968 1.95256725 1.86430383 1.46508609 2.06386973
2.41451113 0.98172031 1.80042134 1.87879002 1.88528521 2.74276485
2.05107567 2.86708267 2.51750924 1.59573869 2.32374223 2.79064613] and Actual value is [
1.89894, 2.43209, 2.70201, 1.92313, 2.4920400000000003, 2.27394, 2.4537299999999997, 2.75
414, 2.2327, 2.5945, 2.025, 2.44191, 2.4653099999999997, 1.24074, 1.9521, 1.86399, 1.4649
4, 2.06367, 2.4148400000000003, 0.98195, 1.80109999999998, 1.87877, 1.8850099999999999,
2.74255, 2.05125, 2.86712, 2.517379999999997, 1.59541, 2.32407, 2.79094]

Mean absolute error:- 0.0002444491163333784

Mean squared error:- 7.91703097468312e-08

Root mean squared error:- 0.0002813721907844327

r2 Score:- 0.9999996267511375

At random state 457 the model performs very well

At random state 457

Training score is

0.9999997284126988

Predicted value is [1.59573567 2.46554449 1.26504168 2.51764607 1.86611843 2.74279148
1.89858862 1.68161821 2.1237575 2.86699645 2.80741217 1.71932727
2.61952334 2.04402529 3.60179723 2.09978727 1.96943393 1.59862388
2.24182532 1.92341617 2.27539889 2.79882055 2.45184015 1.21366852
2.11811228 2.53338833 1.63811151 2.46514882 1.95595975 2.84825603] and Actual value is [
1.59541, 2.4657, 1.26462, 2.51767, 1.86565, 2.74255, 1.89894, 1.68135, 2.12367, 2.86712,
2.8079099999999997, 1.719559999999998, 2.61955, 2.0438400000000003, 3.6021400000000003,
2.10017, 1.969609999999999, 1.598879999999999, 2.24173, 1.92313, 2.27513, 2.79832, 2.45
17599999999997, 1.21305, 2.11773, 2.5332, 1.63794, 2.465309999999997, 1.9563700000000002
, 2.84848]

Mean absolute error:- 0.00026515563877937964

Mean squared error:- 9.202002144884375e-08

Root mean squared error:- 0.000303348020347659

r2 Score:- 0.9999996667217207

At random state 458 the model performs very well

At random state 458

Training score is

0.9999997438242075

Predicted value is [1.75332341 1.6949178 2.2471252 2.61946743 1.97543729 2.45369067
2.09979577 2.2014335 1.96968035 2.89331556 3.60185436 1.73829779
2.83591158 2.5943856 1.99184502 2.45183886 2.63446274 1.92342301
2.21116408 1.83345169 2.2322505 2.76618165 2.10996327 1.95592934
2.27554774 1.86964614 1.57037541 1.87873261 1.8004024 2.12508271] and Actual value is [
1.7536, 1.6944, 2.24729, 2.61955, 1.9757, 2.453729999999997, 2.10017, 2.20173, 1.9699400
000000002, 2.89319, 3.6021400000000003, 1.73797, 2.8360000000000003, 2.5945, 1.9917200000
000002, 2.451759999999997, 2.6343, 1.92313, 2.21126, 1.83302, 2.2327, 2.76579, 2.11032,
1.956370000000002, 2.27513, 1.869840000000002, 1.57059, 1.87877, 1.80109999999998, 2.
12466]

Mean absolute error:- 0.0002645214176366132

Mean squared error:- 9.280820432126312e-08

Root mean squared error:- 0.0003046443899389305

r2 Score:- 0.999995117015811

At random state 459 the model performs very well

At random state 459

Training score is

0.9999997060763193

Predicted value is [2.8576204 2.27559572 2.61950593 0.89942995 2.46517908 2.09978725
2.04398985 1.73805444 1.42787416 2.53917467 1.86442225 1.94279911
1.6382233 1.7382897 1.34740698 1.99189294 2.22005308 2.8933221
2.6344416 0.67151532 1.57161991 2.86704325 2.11563326 1.69495298

2.451918 1.6162509 1.46184307 1.95263429 2.32313581 1.58824641] and Actual value is [2.85737, 2.27513, 2.61955, 0.89991, 2.4653099999999997, 2.10017, 2.0438400000000003, 1.7379900000000001, 1.42766, 2.5394200000000002, 1.86399, 1.9429599999999998, 1.63794, 1.73797, 1.34759, 1.9917200000000002, 2.21978, 2.89319, 2.6343, 0.67108, 1.5714, 2.86712, 2.1156900000000003, 1.6944, 2.4517599999999997, 1.6158299999999999, 1.46181, 1.9521, 2.32323, 1.58782]

Mean absolute error:- 0.0002511712013982555

Mean squared error:- 8.703638977731962e-08

Root mean squared error:- 0.0002950193040757157

r2 Score:- 0.999999707790928

At random state 460 the model performs very well

At random state 460

Training score is

0.9999997255787652

Predicted value is [1.96968475 2.30871941 1.46163108 1.83348319 2.18866169 2.44684132

1.58825682 1.71920898 2.51746778 2.26644884 1.73799614 1.44418696

2.24707966 2.6762019 1.96937705 2.22005702 3.05125825 2.24705583

2.44220142 1.86965281 1.86424483 2.49198776 3.03488947 2.43853268

2.37152811 2.86702751 1.34732378 1.68152456 2.85763165 1.84419551] and Actual value is [1.9699400000000002, 2.30919, 1.46181, 1.83302, 2.18896, 2.4464900000000003, 1.58782, 1.719559999999998, 2.5173799999999997, 2.26646, 1.7379900000000001, 1.44395, 2.24729, 2.67585, 1.9696099999999999, 2.21978, 3.05137, 2.24743, 2.44191, 1.8698400000000002, 1.86399, 2.4920400000000003, 3.035, 2.43872, 2.3711900000000004, 2.86712, 1.34759, 1.68135, 2.85737, 1.84408]

Mean absolute error:- 0.000234588039932816

Mean squared error:- 7.053891476580683e-08

Root mean squared error:- 0.00026559163158090435

r2 Score:- 0.999999670685936

At random state 461 the model performs very well

At random state 461

Training score is

0.999999724464666

Predicted value is [2.11351087 2.45365456 3.19119171 2.43250239 1.73799337 1.92338331

0.99845944 0.98166318 3.17760399 1.85994318 1.88528924 2.11552857

2.18861471 2.22003628 2.3213303 2.79888424 1.78519786 1.73928064

1.69479258 2.24710826 1.63320905 1.21356899 2.27540326 1.59859022

2.85763418 1.42777229 1.64833431 2.13138427 1.34725247 1.2649291] and Actual value is [2.1139900000000003, 2.4537299999999997, 3.1913099999999996, 2.43209, 1.7379900000000001, 1.92313, 0.99895, 0.98195, 3.17728, 1.8604, 1.8850099999999999, 2.1156900000000003, 2.18896, 2.21978, 2.3214200000000003, 2.79832, 1.78555, 1.7393299999999998, 1.6944, 2.24729, 1.6332799999999998, 1.21305, 2.27513, 1.5988799999999999, 2.85737, 1.42766, 1.6488, 2.1309, 1.34759, 1.26462]

Mean absolute error:- 0.00028993858416918037

Mean squared error:- 1.0750915002308892e-07

Root mean squared error:- 0.00032788587957258684

r2 Score:- 0.9999996642063276

At random state 462 the model performs very well

At random state 462

Training score is

0.9999997048451792

Predicted value is [2.05109593 2.45364317 1.87882139 2.79869402 1.79313442 2.89315889

2.32304422 1.62254171 0.67149221 2.4384775 2.30872768 2.59436338

3.60178315 1.87966503 2.09024597 2.74279141 1.7614587 1.26502285

1.8003405 2.266477 1.88524687 2.20787347 3.05117154 1.59573064

3.10705038 1.88955776 3.17758889 2.86696766 2.50959174 1.93109554] and Actual value is [2.05125, 2.4537299999999997, 1.87877, 2.79832, 1.79293, 2.89319, 2.32323, 1.62215, 0.67108, 2.43872, 2.30919, 2.5945, 3.6021400000000003, 1.8799599999999999, 2.0906599999999997, 2.74255, 1.76145, 1.26462, 1.8010999999999998, 2.26646, 1.8850099999999999, 2.20857, 3.05137, 1.59541, 3.10712, 1.8893099999999998, 3.17728, 2.86712, 2.51011, 1.9312900000000002]

Mean absolute error:- 0.0002694040084837942

Mean squared error:- 1.0317626487006194e-07

Root mean squared error:- 0.00032121062384370466

r2 Score:- 0.9999997265013651

At random state 463 the model performs very well

At random state 463

Training score is

0.9999997322227744

Predicted value is [2.46557296 1.57167538 2.67617683 2.43248582 2.84825905 1.89858826

1.58830219 1.86971652 1.2412174 3.10709311 1.88528419 1.38094854

2.125048 2.45362655 1.34733739 1.95594301 2.7427625 2.44217865

2.02488406 2.24711691 2.13141092 2.53339341 1.63319106 1.71929056

2.44841988 2.32308748 2.23232747 1.94270461 2.05109501 3.19114127] and Actual value is [

2.4657, 1.5714, 2.67585, 2.43209, 2.84848, 1.89894, 1.58782, 1.8698400000000002, 1.24074,

3.10712, 1.8850099999999999, 1.38079, 2.12466, 2.4537299999999997, 1.34759, 1.95637000000

00002, 2.74255, 2.44191, 2.025, 2.24743, 2.1309, 2.5332, 1.6332799999999998, 1.7195599999

999998, 2.44876, 2.32323, 2.2327, 1.9429599999999998, 2.05125, 3.1913099999999996]

Mean absolute error:- 0.0002606221294808216

Mean squared error:- 8.374398258871829e-08

Root mean squared error:- 0.0002893855258797825

r2 Score:- 0.9999996529436797

At random state 464 the model performs very well

At random state 464

Training score is

0.9999997025485975

Predicted value is [1.34730421 2.53919132 3.05128273 3.19109981 1.898572 1.931122

1.57035101 2.32131276 1.75332218 2.85759989 1.24114 1.4616823

1.87964151 1.94932997 1.76146459 1.73928671 0.99841529 1.85993695

2.46560041 1.59571938 2.45188884 2.02485935 1.75871261 1.83348835

3.08884374 1.21356993 1.95250152 2.5333861 1.57161221 1.86966324] and Actual value is [

1.34759, 2.5394200000000002, 3.05137, 3.1913099999999996, 1.89894, 1.9312900000000002, 1.

57059, 2.321420000000003, 1.7536, 2.85737, 1.24074, 1.46181, 1.8799599999999999, 1.94939

00000000002, 1.76145, 1.7393299999999998, 0.99895, 1.8604, 2.4657, 1.59541, 2.45175999999

99997, 2.025, 1.75873, 1.83302, 3.08854, 1.21305, 1.9521, 2.5332, 1.5714, 1.8698400000000

002]

Mean absolute error:- 0.0002376063129423141

Mean squared error:- 7.760725167456691e-08

Root mean squared error:- 0.00027858078123690964

r2 Score:- 0.9999997504390458

At random state 465 the model performs very well

At random state 465

Training score is

0.999999743947467

Predicted value is [1.71933902 2.20145042 1.89852702 2.04400784 1.6814926 3.17761976

3.26050068 1.93108382 2.51762351 2.232358 2.10996983 2.80736409

1.59854966 2.53343766 1.86970556 1.57032148 2.24714243 1.86610172

1.87873438 1.8643198 2.4920412 1.63317682 2.31983964 1.94941105

1.753311 2.3213151 2.11813623 2.44690754 1.79312128 2.11562379] and Actual value is [

1.7195599999999998, 2.20173, 1.89894, 2.043840000000003, 1.68135, 3.17728, 3.26001, 1.93

12900000000002, 2.51767, 2.2327, 2.11032, 2.807909999999997, 1.5988799999999999, 2.5332,

1.8698400000000002, 1.57059, 2.24729, 1.86565, 1.87877, 1.86399, 2.492040000000003, 1.63

327999999999998, 2.31945, 1.9493900000000002, 1.7536, 2.321420000000003, 2.11773, 2.44649

00000000003, 1.79293, 2.1156900000000003]

Mean absolute error:- 0.00024903524111579144

Mean squared error:- 8.379820636208992e-08

Root mean squared error:- 0.00028947919849635123

r2 Score:- 0.9999995302061389

At random state 466 the model performs very well

At random state 466

Training score is

0.9999997289672685

Predicted value is [2.26646794 2.27541161 2.26422625 2.47498154 2.24175327 1.95292802

2.44842025 1.86969816 3.26046457 1.62255738 2.80735853 1.88953792

2.13137623 2.51763304 1.80038766 2.50988784 2.21124703 1.78521425

2.09975681 1.57032274 2.63441408 2.113523 2.0439849 3.19111131
1.92336411 0.98170076 1.63321925 2.24712802 3.10709565 3.05119363] and Actual value is [
2.26646, 2.27513, 2.26425, 2.4748900000000003, 2.24173, 1.95335, 2.44876, 1.869840000000000
002, 3.26001, 1.62215, 2.8079099999999997, 1.8893099999999998, 2.1309, 2.51767, 1.8010099
999999998, 2.51009, 2.21126, 1.78555, 2.10017, 1.57059, 2.6343, 2.1139900000000003, 2.043
8400000000003, 3.1913099999999996, 1.92313, 0.98195, 1.6332799999999998, 2.24743, 3.10712
, 3.05137]

Mean absolute error:- 0.0002437111849098265

Mean squared error:- 8.925304914029958e-08

Root mean squared error:- 0.00029875248809055897

r2 Score:- 0.9999996563513622

At random state 467 the model performs very well

At random state 467

Training score is

0.999997355116608

Predicted value is [1.62257771 1.59864051 1.68432428 1.6381315 1.94927738 1.57167775

1.8850123 1.83345115 1.86428112 2.37159182 1.68150079 3.05128836

2.5334229 1.88526901 1.71922032 2.70222454 1.86609143 1.94266946

2.67623437 2.24709093 2.67777263 0.99839803 1.46505077 2.46561813

2.59439997 2.80741715 2.44220188 3.17764699 1.85997819 1.21363548] and Actual value is [

1.62215, 1.5988799999999999, 1.68435, 1.63794, 1.9493900000000002, 1.5714, 1.885409999999
9998, 1.83302, 1.86399, 2.3711900000000004, 1.68135, 3.05137, 2.5332, 1.8850099999999999,
1.7195599999999998, 2.70201, 1.86565, 1.9429599999999998, 2.67585, 2.24743, 2.67782, 0.99
895, 1.46494, 2.4657, 2.5945, 2.8079099999999997, 2.44191, 3.17728, 1.8604, 1.21305]

Mean absolute error:- 0.00028571981447701825

Mean squared error:- 1.042226750906809e-07

Root mean squared error:- 0.0003228353684011108

r2 Score:- 0.9999996359001514

At random state 468 the model performs very well

At random state 468

Training score is

0.999997377897638

Predicted value is [3.17759664 1.68164609 2.23231194 2.02482456 3.05125608 2.63449802

1.8766278 1.80038243 2.04400583 2.18862709 1.24112103 2.2755661

1.59859042 1.68425873 1.99189033 1.38094628 1.97545491 2.09978799

2.02492139 1.95845564 1.83347392 2.12509744 1.61618993 2.76616725

0.65449888 2.85761938 2.74282276 2.30881647 1.95259114 2.11557102] and Actual value is [

3.17728, 1.68135, 2.2327, 2.025, 3.05137, 2.6343, 1.8763400000000001, 1.801009999999998,
2.0438400000000003, 2.18896, 1.24074, 2.27513, 1.598879999999999, 1.68435, 1.99172000000
0002, 1.38079, 1.9757, 2.10017, 2.025179999999998, 1.95812, 1.83302, 2.12466, 1.6158299
999999999, 2.76579, 0.654289999999999, 2.85737, 2.74255, 2.30919, 1.9521, 2.1156900000000
003]

Mean absolute error:- 0.00029971465175025286

Mean squared error:- 1.0491335677466856e-07

Root mean squared error:- 0.0003239033139297413

r2 Score:- 0.9999996215164602

At random state 469 the model performs very well

At random state 469

Training score is

0.999997488589418

Predicted value is [1.57033041 1.79315415 1.87966765 1.83346428 2.24627363 2.74277389

1.86606555 2.11008466 2.11351971 0.99848204 2.11553326 1.73928457

1.59571502 1.6842897 1.24119194 1.8985603 2.41449104 1.68157642

2.80740699 2.5943636 1.71928194 1.8599509 1.80041067 2.43856378

0.65453578 1.92336691 1.7383519 1.96968566 2.13136877 1.57163496] and Actual value is [

1.57059, 1.79293, 1.8799599999999999, 1.83302, 2.2463900000000003, 2.74255, 1.86565, 2.11
032, 2.1139900000000003, 0.99895, 2.1156900000000003, 1.7393299999999998, 1.59541, 1.6843
5, 1.24074, 1.89894, 2.4148400000000003, 1.68135, 2.8079099999999997, 2.5945, 1.719559999
999998, 1.8604, 1.8010099999999998, 2.43872, 0.654289999999999, 1.92313, 1.73797, 1.969
94000000000002, 2.1309, 1.5714]

Mean absolute error:- 0.00030230244610361207

Mean squared error:- 1.1044683939280988e-07

Root mean squared error:- 0.00033233543204541085

r2 Score:- 0.9999994655921605

At random state 470 the model performs very well

At random state 470

Training score is

0.999999755302683

Predicted value is [1.75875762 2.47501144 2.83599778 1.62259075 2.11561684 1.58830592
2.00085608 2.13141462 2.02498838 2.05111 2.11815988 1.87970509
2.43249484 1.92344982 2.24716873 1.68159347 2.76615892 2.24632119
1.87664945 3.26049658 2.12511712 1.95597375 1.38093439 2.414542
2.27551227 2.12377739 1.95301315 2.21127211 1.96945957 2.48662034] and Actual value is [
1.75873, 2.4748900000000003, 2.8360000000000003, 1.62215, 2.1156900000000003, 1.58782, 2.
00073, 2.1309, 2.0251799999999998, 2.05125, 2.11773, 1.8799599999999999, 2.43209, 1.92313
, 2.24729, 1.68135, 2.76579, 2.2463900000000003, 1.8763400000000001, 3.26001, 2.12466, 1.
9563700000000002, 1.38079, 2.4148400000000003, 2.27513, 2.12367, 1.95335, 2.21126, 1.9696
099999999999, 2.48676]

Mean absolute error:- 0.00025186183585979016

Mean squared error:- 8.802078856220981e-08

Root mean squared error:- 0.000296682976529173

r2 Score:- 0.9999993993834068

At random state 471 the model performs very well

At random state 471

Training score is

0.9999997045263361

Predicted value is [2.22000029 2.32375582 0.89943045 1.76144747 2.02482886 2.27547217
2.20147584 2.84823822 2.44845786 2.23767966 1.38097372 2.26423464
3.60179088 1.58826319 3.05119331 2.1237383 1.24115729 2.00078606
2.05107747 2.32307527 1.87878568 1.84411913 1.80037743 2.02495654
2.41450034 2.12502858 1.73800311 0.67146447 1.99181346 2.67613619] and Actual value is [
2.21978, 2.32407, 0.89991, 1.76145, 2.025, 2.27513, 2.20173, 2.84848, 2.44876, 2.23740999
99999997, 1.38079, 2.26425, 3.6021400000000003, 1.58782, 3.05137, 2.12367, 1.24074, 2.000
73, 2.05125, 2.32323, 1.87877, 1.84408, 1.8010099999999998, 2.0251799999999998, 2.4148400
000000003, 2.12466, 1.7379900000000001, 0.67108, 1.9917200000000002, 2.67585]

Mean absolute error:- 0.00023436348547222947

Mean squared error:- 7.905011066041129e-08

Root mean squared error:- 0.00028115851518389283

r2 Score:- 0.9999997611778183

At random state 472 the model performs very well

At random state 472

Training score is

0.9999997574659746

Predicted value is [1.76147525 2.00080998 1.8854275 2.24708272 2.67620577 1.59587683
1.95065374 1.95593788 2.23226041 1.83348256 1.61616828 2.12511314
1.93117065 1.88966107 1.94936256 2.83591984 2.0639706 2.11351661
2.50982109 1.78519066 2.79075738 1.57042727 2.32311944 1.79304884
2.45191301 1.63809446 2.48656292 1.6949272 2.37162268 2.4484526] and Actual value is [
1.76145, 2.00073, 1.8850099999999999, 2.24729, 2.67585, 1.59541, 1.95071, 1.9563700000000
002, 2.2327, 1.83302, 1.6158299999999999, 2.12466, 1.9312900000000002, 1.8893099999999998
, 1.9493900000000002, 2.8360000000000003, 2.06367, 2.1139900000000003, 2.51009, 1.78555,
2.79094, 1.57059, 2.32323, 1.79293, 2.4517599999999997, 1.63794, 2.48676, 1.6944, 2.37119
0000000004, 2.44876]

Mean absolute error:- 0.00026871366749423584

Mean squared error:- 9.593938606243747e-08

Root mean squared error:- 0.00030974083693054985

r2 Score:- 0.9999992410007554

At random state 473 the model performs very well

At random state 473

Training score is

0.999999721421123

Predicted value is [2.44681533 2.23233578 3.05115042 3.26046422 2.50964588 1.89854003

1.34735029 2.2078665 2.46563759 1.8895414 2.6761375 1.59855547

2.12376649 1.68429706 2.41453787 2.45367396 1.85105403 2.48652308
3.0888635 0.65446117 2.51752869 2.00079489 1.8003531 2.05100797
3.10711343 2.80739842 2.27549817 3.0348164 1.86431305 2.23769355] and Actual value is [
2.446490000000003, 2.2327, 3.05137, 3.26001, 2.51011, 1.89894, 1.34759, 2.20857, 2.4657,
1.8893099999999998, 2.67585, 1.5988799999999999, 2.12367, 1.68435, 2.4148400000000003, 2.
4537299999999997, 1.851, 2.48676, 3.08854, 0.6542899999999999, 2.5173799999999997, 2.0007
3, 1.8010099999999998, 2.05125, 3.10712, 2.8079099999999997, 2.27513, 3.035, 1.86399, 2.2
37409999999997]

Mean absolute error:- 0.0002719577352142677

Mean squared error:- 1.0326411634131843e-07

Root mean squared error:- 0.0003213473453154988

r2 Score:- 0.999996751460029

At random state 474 the model performs very well

At random state 474

Training score is

0.999997363073739

Predicted value is [2.2111631 2.41447617 1.4171987 1.63323422 2.26648163 2.08473511
1.88500615 3.26044415 1.94938002 1.34731851 1.80035325 1.86427656
2.76617001 2.32305379 2.4518873 2.1155215 3.10711129 2.18866569
1.83349418 1.79316157 1.73804968 1.76147878 2.31981658 2.79890245
1.88522638 2.20142591 1.94274702 2.11813906 3.60184085 2.11013597] and Actual value is [
2.21126, 2.4148400000000003, 1.41723, 1.6332799999999998, 2.26646, 2.08528, 1.88540999999
99998, 3.26001, 1.9493900000000002, 1.34759, 1.8010099999999998, 1.86399, 2.76579, 2.3232
3, 2.4517599999999997, 2.1156900000000003, 3.10712, 2.18896, 1.83302, 1.79293, 1.7379900
00000001, 1.76145, 2.31945, 2.79832, 1.8850099999999999, 2.20173, 1.9429599999999998, 2.1
1773, 3.6021400000000003, 2.11032]

Mean absolute error:- 0.0002563679835342336

Mean squared error:- 9.73199491668057e-08

Root mean squared error:- 0.00031196145461708197

r2 Score:- 0.999996214877735

At random state 475 the model performs very well

At random state 475

Training score is

0.999997461026139

Predicted value is [2.89318077 1.9529604 1.21355787 1.95243997 2.11809387 1.75333789
1.41715428 2.44845036 1.93111696 1.78518661 2.20791326 1.59577642
2.04401652 2.113542 0.9817272 2.10997433 1.38088729 2.23230006
2.37159895 1.73834255 2.47501673 1.96972607 1.63807645 0.99848721
1.79307996 2.48654551 2.44683416 1.57161029 2.50984525 2.53341576] and Actual value is [
2.89319, 1.95335, 1.21305, 1.9521, 2.11773, 1.7536, 1.41723, 2.44876, 1.931290000000002,
1.78555, 2.20857, 1.59541, 2.0438400000000003, 2.1139900000000003, 0.98195, 2.11032, 1.38
079, 2.2327, 2.371190000000004, 1.73797, 2.4748900000000003, 1.9699400000000002, 1.63794
, 0.99895, 1.79293, 2.48676, 2.446490000000003, 1.5714, 2.51009, 2.5332]

Mean absolute error:- 0.00028695432959989405

Mean squared error:- 1.0214439023933927e-07

Root mean squared error:- 0.00031960036019901364

r2 Score:- 0.99999529298382

At random state 476 the model performs very well

At random state 476

Training score is

0.999997231598993

Predicted value is [1.58826378 2.44684362 1.68430332 2.61953767 2.84826366 1.83345792
1.63324627 2.45185203 1.71925515 2.20148181 2.02487118 2.47497708
2.53922597 2.08479498 1.86968846 1.97544991 2.67777003 1.95846961
2.7545714 1.94272088 3.26045921 3.03487949 2.22004057 2.51769856
3.05125969 1.88498722 1.87877013 1.87658164 1.46505347 2.24710188] and Actual value is [
1.58782, 2.446490000000003, 1.68435, 2.61955, 2.84848, 1.83302, 1.6332799999999998, 2.45
17599999999997, 1.7195599999999998, 2.20173, 2.025, 2.4748900000000003, 2.5394200000000000
2, 2.08528, 1.869840000000002, 1.9757, 2.67782, 1.95812, 2.75414, 1.9429599999999998, 3.
26001, 3.035, 2.21978, 2.51767, 3.05137, 1.8854099999999998, 1.87877, 1.8763400000000001,
1.46494, 2.24729]

Mean absolute error:- 0.00021638205017904255

Mean squared error:- 6.867404033052487e-08
Root mean squared error:- 0.00026205732260428227
r2 Score:- 0.9999996868367989

At random state 477 the model performs very well
At random state 477
Training score is
0.9999996597003473

Predicted value is [3.0512275 2.61956766 2.24708335 2.47493636 1.61621148 2.1156042
0.99834709 1.73826764 2.67621037 2.26427744 2.51752873 0.6544661
2.67779462 1.46158116 1.87651242 1.94267136 1.79308885 1.24112792
2.04405538 1.4170658 1.86965372 2.48648702 2.43851406 3.10717957
0.89939388 2.09024291 3.26048922 2.7906784 1.42785589 3.08891009] and Actual value is [
3.05137, 2.61955, 2.24743, 2.474890000000003, 1.6158299999999999, 2.1156900000000003, 0.
99895, 1.73797, 2.67585, 2.26425, 2.5173799999999997, 0.6542899999999999, 2.67782, 1.4618
1, 1.8763400000000001, 1.9429599999999998, 1.79293, 1.24074, 2.0438400000000003, 1.41723,
1.8698400000000002, 2.48676, 2.43872, 3.10712, 0.89991, 2.090659999999997, 3.26001, 2.79
094, 1.42766, 3.08854]

Mean absolute error:- 0.0002413339514151606
Mean squared error:- 8.052382607445818e-08
Root mean squared error:- 0.00028376720401494283
r2 Score:- 0.9999998234094626

At random state 478 the model performs very well
At random state 478
Training score is
0.999999710766048

Predicted value is [2.09025757 1.41713157 2.24711497 2.67616727 2.10994993 2.32131201
2.12378401 1.73789844 1.59898494 2.51764142 2.43246021 1.94938982
2.83598917 0.67136502 1.87661476 1.34735717 1.87965832 0.98165316
2.13139047 2.80736198 2.20145754 2.02501092 1.59856057 2.70216752
2.2754301 1.46179714 2.31980405 1.38092069 1.78522112 2.8576407] and Actual value is [
2.0906599999999997, 1.41723, 2.24743, 2.67585, 2.11032, 2.3214200000000003, 2.12367, 1.73
79900000000001, 1.59927, 2.51767, 2.43209, 1.9493900000000002, 2.8360000000000003, 0.6710
8, 1.8763400000000001, 1.34759, 1.8799599999999999, 0.98195, 2.1309, 2.8079099999999997,
2.20173, 2.0251799999999998, 1.5988799999999999, 2.70201, 2.27513, 1.46181, 2.31945, 1.38
079, 1.78555, 2.85737]

Mean absolute error:- 0.00024190118083294114
Mean squared error:- 7.785006555638574e-08
Root mean squared error:- 0.00027901624604382045
r2 Score:- 0.9999997294424262

At random state 479 the model performs very well
At random state 479
Training score is
0.9999997435709204

Predicted value is [2.44679213 2.05113789 2.74282899 1.61623502 2.67776448 1.87967724
2.4145095 1.96969184 2.43243114 1.46510432 1.94929455 2.53339784
1.95845279 1.88954146 3.6018208 3.03486572 1.80035722 2.24708952
1.7383081 2.50958251 1.21365105 1.62254192 1.68430203 2.08471516
2.23777908 3.17763495 1.97547346 0.89942596 2.46514827 2.37155217] and Actual value is [
2.446490000000003, 2.05125, 2.74255, 1.6158299999999999, 2.67782, 1.8799599999999999, 2.
414840000000003, 1.9699400000000002, 2.43209, 1.46494, 1.9493900000000002, 2.5332, 1.958
12, 1.8893099999999998, 3.602140000000003, 3.035, 1.8010099999999998, 2.24743, 1.73797,
2.51011, 1.21305, 1.62215, 1.68435, 2.08528, 2.237409999999997, 3.17728, 1.9757, 0.89991
, 2.4653099999999997, 2.3711900000000004]

Mean absolute error:- 0.0003084935774393468
Mean squared error:- 1.183801716002564e-07
Root mean squared error:- 0.0003440641969171689
r2 Score:- 0.9999996274347244

At random state 480 the model performs very well
At random state 480
Training score is
0.9999997288208138

Predicted value is [0.67145789 2.11561609 1.8796499 2.59436386 3.1776006 1.86608778
1.71927003 1.46508598 2.09973136 1.68152008 1.80033003 2.09022521
1.95598797 1.57032849 1.63327452 1.9310642 1.86002128 2.0248052
2.21997921 2.48655304 2.45189504 1.2649768 2.7906144 2.45362881
2.12499456 1.89853571 2.86703322 1.24112753 2.06380975 1.44420224] and Actual value is [0.67108, 2.1156900000000003, 1.8799599999999999, 2.5945, 3.17728, 1.86565, 1.7195599999999998, 1.46494, 2.10017, 1.68135, 1.8010099999999998, 2.0906599999999997, 1.9563700000000002, 1.57059, 1.6332799999999998, 1.9312900000000002, 1.8604, 2.025, 2.21978, 2.48676, 2.4517599999999997, 1.26462, 2.79094, 2.4537299999999997, 2.12466, 1.89894, 2.86712, 1.24074, 2.06367, 1.44395]

Mean absolute error:- 0.00027157040681547264
Mean squared error:- 9.381313354678804e-08
Root mean squared error:- 0.00030628929714697516
r2 Score:- 0.999999645538558

At random state 481 the model performs very well

At random state 481

Training score is

0.999997613176655

Predicted value is [1.95840423 1.95592828 1.86610317 2.27538962 2.50962774 2.44215173
1.94270856 2.02500696 1.24119885 2.44839207 2.807316 3.05117074
2.26647466 1.58830044 2.11350692 2.32131976 0.99851294 2.05102951
1.62259631 2.53918242 1.63810418 2.37157178 1.95299247 2.18864259
0.89945766 2.44686804 2.45361933 2.02485849 1.69478245 2.83596439] and Actual value is [1.95812, 1.9563700000000002, 1.86565, 2.27513, 2.51011, 2.44191, 1.9429599999999998, 2.0251799999999998, 1.24074, 2.44876, 2.8079099999999997, 3.05137, 2.26646, 1.58782, 2.113990000000003, 2.3214200000000003, 0.99895, 2.05125, 1.62215, 2.5394200000000002, 1.63794, 2.3711900000000004, 1.95335, 2.18896, 0.89991, 2.4464900000000003, 2.4537299999999997, 2.025, 1.6944, 2.8360000000000003]

Mean absolute error:- 0.00031162056210956026

Mean squared error:- 1.1898801396523093e-07

Root mean squared error:- 0.0003449463928862439

r2 Score:- 0.9999995169434249

At random state 482 the model performs very well

At random state 482

Training score is

0.999997327963328

Predicted value is [1.38093284 2.26653087 1.9528542 1.68153546 1.73923171 2.37163492
2.02490053 2.44849959 1.86428132 1.87660378 1.99179841 0.89933174
1.63327567 1.75862842 1.41719049 0.99840704 2.31982245 2.23777567
1.9310603 1.85103398 1.61621101 2.02477193 2.41454351 2.23235147
1.68427598 1.59888522 1.96946227 2.51756731 1.5882365 1.59569292] and Actual value is [1.38079, 2.26646, 1.95335, 1.68135, 1.7393299999999998, 2.3711900000000004, 2.0251799999999998, 2.44876, 1.86399, 1.8763400000000001, 1.9917200000000002, 0.89991, 1.6332799999999998, 1.75873, 1.41723, 0.99895, 2.31945, 2.2374099999999997, 1.9312900000000002, 1.851, 1.6158299999999999, 2.025, 2.4148400000000003, 2.2327, 1.68435, 1.59927, 1.9696099999999999, 2.5173799999999997, 1.58782, 1.59541]

Mean absolute error:- 0.0002542441842769268

Mean squared error:- 8.859007334381074e-08

Root mean squared error:- 0.0002976408462288245

r2 Score:- 0.9999994226048803

At random state 483 the model performs very well

At random state 483

Training score is

0.99999736017872

Predicted value is [2.61949684 1.34736243 2.05107218 1.57166029 2.41448673 2.24706294
1.59857926 1.88499465 2.86704779 1.94934482 2.08476039 3.1775813
1.95845444 2.09026253 1.9696947 2.2323628 2.23769549 2.67775734
2.49197989 1.26498649 2.12375561 1.44420615 2.44846648 1.69477884
2.51745495 2.45363822 2.32130471 1.63811092 1.6225681 2.3230603] and Actual value is [2.61955, 1.34759, 2.05125, 1.5714, 2.4148400000000003, 2.24743, 1.5988799999999999, 1.8854099999999998, 2.86712, 1.9493900000000002, 2.08528, 3.17728, 1.95812, 2.0906599999999997, 1.9699400000000002, 2.2327, 2.2374099999999997, 2.67782, 2.4920400000000003, 1.26462, 2.12367, 1.44395, 2.44876, 1.6944, 2.5173799999999997, 2.4537299999999997, 2.3214200000000000]

003, 1.63794, 1.62215, 2.32323]

Mean absolute error:- 0.0002412532735330523

Mean squared error:- 7.581174642499221e-08

Root mean squared error:- 0.0002753393296007532

r2 Score:- 0.999999628400817

At random state 484 the model performs very well

At random state 484

Training score is

0.9999997305009073

Predicted value is [1.7392908 1.96944776 1.34733939 2.6344789 1.88959632 2.45363832

1.94931597 1.21363763 2.00076346 2.37158743 2.26426317 1.97550803

2.48663805 1.80037794 1.69481209 2.43243127 1.99178794 2.86699768

1.68429438 1.46507413 2.70218555 1.73806491 2.31980268 3.17761873

2.50962847 2.44847505 2.84828172 1.63327444 1.73833543 1.79314237] and Actual value is [

1.7393299999999998, 1.9696099999999999, 1.34759, 2.6343, 1.8893099999999998, 2.4537299999

999997, 1.9493900000000002, 1.21305, 2.00073, 2.3711900000000004, 2.26425, 1.9757, 2.4867

6, 1.8010099999999998, 1.6944, 2.43209, 1.9917200000000002, 2.86712, 1.68435, 1.46494, 2.

70201, 1.7379900000000001, 2.31945, 3.17728, 2.51011, 2.44876, 2.84848, 1.6332799999999999

8, 1.73797, 1.79293]

Mean absolute error:- 0.0002228012782669264

Mean squared error:- 7.692905170288557e-08

Root mean squared error:- 0.00027736086909094725

r2 Score:- 0.9999996600157289

At random state 485 the model performs very well

At random state 485

Training score is

0.9999996901618387

Predicted value is [2.67615357 3.08883203 1.26498289 2.27410523 2.50960962 1.86608492

1.89857294 2.44219389 1.59858262 1.76143228 2.24629739 1.95075428

1.73928559 1.24116485 1.7852643 1.94275906 0.89943293 2.83595345

0.67142569 2.67776446 2.26421187 1.95250143 1.84414004 1.92340291

2.4145013 2.89324339 3.0348369 2.4536599 1.41719294 2.84825717] and Actual value is [

2.67585, 3.08854, 1.26462, 2.27394, 2.51011, 1.86565, 1.89894, 2.44191, 1.5988799999999999

9, 1.76145, 2.2463900000000003, 1.95071, 1.7393299999999998, 1.24074, 1.78555, 1.94295999

99999998, 0.89991, 2.8360000000000003, 0.67108, 2.67782, 2.26425, 1.9521, 1.84408, 1.9231

3, 2.4148400000000003, 2.89319, 3.035, 2.4537299999999997, 1.41723, 2.84848]

Mean absolute error:- 0.0002233469368966623

Mean squared error:- 7.293988102463398e-08

Root mean squared error:- 0.00027007384365138726

r2 Score:- 0.9999998022357786

At random state 486 the model performs very well

At random state 486

Training score is

0.9999996982222585

Predicted value is [2.11555144 1.69482149 2.02487181 1.75331893 1.380966 2.4484299

2.46561674 2.20142412 1.75871064 1.95068222 2.82360795 1.73929837

1.83345614 2.89319296 1.86605181 0.65454775 1.73834563 1.84414748

2.51751529 2.24192601 2.59437398 1.94269138 2.80741296 1.93113121

2.6195372 1.68428072 0.89941425 2.7021861 0.99844238 1.57163544] and Actual value is [

2.1156900000000003, 1.6944, 2.025, 1.7536, 1.38079, 2.44876, 2.4657, 2.20173, 1.75873, 1.

95071, 2.82334, 1.7393299999999998, 1.83302, 2.89319, 1.86565, 0.6542899999999999, 1.7379

7, 1.84408, 2.5173799999999997, 2.24173, 2.5945, 1.9429599999999998, 2.8079099999999997,

1.9312900000000002, 2.61955, 1.68435, 0.89991, 2.70201, 0.99895, 1.5714]

Mean absolute error:- 0.00022106025088274305

Mean squared error:- 7.274397539571171e-08

Root mean squared error:- 0.0002697109107835864

r2 Score:- 0.9999997646863258

At random state 487 the model performs very well

At random state 487

Training score is

0.9999997065369907
Predicted value is [2.11556563 3.10700603 1.88531068 2.89313509 1.94935234 1.84413731
3.60178643 1.21367266 1.75335978 1.93115521 1.7851998 2.09980589
2.1237507 1.2412413 2.00079976 2.23770707 1.59897141 1.87969655
3.10714117 2.26422233 1.68160403 1.95589903 0.65460273 1.96968194
2.23227262 2.12502499 2.02496152 1.75872656 2.44682143 2.80732699] and Actual value is [
2.1156900000000003, 3.10712, 1.885009999999999, 2.89319, 1.9493900000000002, 1.84408, 3.
6021400000000003, 1.21305, 1.7536, 1.9312900000000002, 1.78555, 2.10017, 2.12367, 1.24074
, 2.00073, 2.237409999999997, 1.59927, 1.879959999999999, 3.1070900000000004, 2.26425,
1.68135, 1.9563700000000002, 0.654289999999999, 1.9699400000000002, 2.2327, 2.12466, 2.0
25179999999998, 1.75873, 2.4464900000000003, 2.807909999999997]

Mean absolute error:- 0.0002522898092793528

Mean squared error:- 9.15794240696151e-08

Root mean squared error:- 0.0003026209247055053

r2 Score:- 0.999997312840416

At random state 488 the model performs very well

At random state 488

Training score is

0.999997237219375

Predicted value is [2.26418384 2.49198799 1.59575367 1.75336549 3.05126145 2.12373717
2.63448101 1.71920993 1.87881774 1.88499272 2.59442721 1.92341597
1.68427235 2.46555287 2.46512933 2.1100154 1.59894444 2.76615239
2.53924576 2.43850697 0.899359 2.23770149 2.50958705 1.95249411
2.74284115 2.86703499 2.82369626 1.87965961 1.86606624 3.17765987] and Actual value is [
2.26425, 2.4920400000000003, 1.59541, 1.7536, 3.05137, 2.12367, 2.6343, 1.719559999999999
8, 1.87877, 1.885409999999998, 2.5945, 1.92313, 1.68435, 2.4657, 2.465309999999997, 2.1
1032, 1.59927, 2.76579, 2.5394200000000002, 2.43872, 0.89991, 2.237409999999997, 2.51011
, 1.9521, 2.74255, 2.86712, 2.82334, 1.879959999999999, 1.86565, 3.17728]

Mean absolute error:- 0.00025335685557128135

Mean squared error:- 8.418417791922612e-08

Root mean squared error:- 0.0002901450980444545

r2 Score:- 0.999996687359765

At random state 489 the model performs very well

At random state 489

Training score is

0.9999974087869

Predicted value is [1.86607684 2.23229371 1.42781259 1.58827869 1.88956889 2.08479412
0.65447962 2.46555619 2.83596872 2.2014403 2.13138591 3.10708961
2.32375677 1.89857103 2.3213142 2.18862226 0.98169356 1.95592263
2.61952858 1.80045904 2.8576202 2.12505105 1.83343559 2.49201519
2.44686061 1.64835518 2.26419832 1.38093024 2.06390726 2.67616386] and Actual value is [
1.86565, 2.2327, 1.42766, 1.58782, 1.889309999999998, 2.08528, 0.654289999999999, 2.465
7, 2.8360000000000003, 2.20173, 2.1309, 3.10712, 2.32407, 1.89894, 2.3214200000000003, 2.
18896, 0.98195, 1.9563700000000002, 2.61955, 1.801009999999998, 2.85737, 2.12466, 1.8330
2, 2.4920400000000003, 2.4464900000000003, 1.6488, 2.26425, 1.38079, 2.06367, 2.67585]

Mean absolute error:- 0.00028006443766847764

Mean squared error:- 1.0310870267751389e-07

Root mean squared error:- 0.0003211054385673246

r2 Score:- 0.999996311688021

At random state 490 the model performs very well

At random state 490

Training score is

0.999997256170686

Predicted value is [3.17764781 2.27408793 1.83333894 0.67138807 1.42778231 2.10994814
2.09975218 2.11356074 1.92339848 1.78521382 2.63443044 2.43851785
1.87876593 2.23765075 1.86962858 1.94269957 1.95290248 1.88524121
2.18863188 3.26046094 2.50986157 2.53921817 1.955967 0.99843036
2.27554042 1.69484644 3.10732388 2.32310268 3.05116025 2.09024293] and Actual value is [
3.17728, 2.27394, 1.83302, 0.67108, 1.42766, 2.11032, 2.10017, 2.1139900000000003, 1.9231
3, 1.78555, 2.6343, 2.43872, 1.87877, 2.237409999999997, 1.8698400000000002, 1.94295999
999998, 1.95335, 1.885009999999999, 2.18896, 3.26001, 2.51009, 2.5394200000000002, 1.95
63700000000002, 0.99895, 2.27513, 1.6944, 3.107090000000004, 2.32323, 3.05137, 2.0906599
99999997]

Mean absolute error:- 0.0002931160230968584
Mean squared error:- 1.0086815263595822e-07
Root mean squared error:- 0.00031759746950496667
r2 Score:- 0.9999996834578571

At random state 491 the model performs very well
At random state 491
Training score is
0.999997206553193
Predicted value is [1.8985892 3.03483227 2.09023767 1.7614396 2.2418076 2.02492824
2.46557571 1.41721457 2.22000226 2.11559866 1.21359507 2.86700905
3.17760753 1.92342102 2.48652916 2.63444177 1.87885296 1.42789182
2.47497102 1.99183978 1.8642771 1.59578006 1.87967665 2.20789099
1.57161443 2.4651452 1.6333575 2.32305356 1.46510937 2.24712127] and Actual value is [
1.89894, 3.035, 2.0906599999999997, 1.76145, 2.24173, 2.0251799999999998, 2.4657, 1.41723
, 2.21978, 2.1156900000000003, 1.21305, 2.86712, 3.17728, 1.92313, 2.48676, 2.6343, 1.878
77, 1.42766, 2.474890000000003, 1.991720000000002, 1.86399, 1.59541, 1.8799599999999999
, 2.20857, 1.5714, 2.4653099999999997, 1.6332799999999998, 2.32323, 1.46494, 2.24729]
Mean absolute error:- 0.00021624947431463
Mean squared error:- 6.85650884970965e-08
Root mean squared error:- 0.0002618493622239636
r2 Score:- 0.9999996973073203

At random state 492 the model performs very well
At random state 492
Training score is
0.999997349062001
Predicted value is [2.70216393 2.05109969 1.59890191 2.67776415 1.86606469 2.11556372
1.59855031 1.94929649 2.32304614 2.12499736 2.18866874 1.80033062
2.2199754 2.76612298 2.09973816 2.63447506 0.67136153 1.76142607
2.50960178 1.57029856 1.75335786 2.45364579 2.02480234 2.4920192
2.43241908 2.4655806 2.20150366 2.85765229 0.99839842 1.68153074] and Actual value is [
2.70201, 2.05125, 1.59927, 2.67782, 1.86565, 2.1156900000000003, 1.5988799999999999, 1.94
93900000000002, 2.32323, 2.12466, 2.18896, 1.8010099999999998, 2.21978, 2.76579, 2.10017,
2.6343, 0.67108, 1.76145, 2.51011, 1.57059, 1.7536, 2.4537299999999997, 2.025, 2.49204000
00000003, 2.43209, 2.4657, 2.20173, 2.85737, 0.99895, 1.68135]
Mean absolute error:- 0.0002552949868790325
Mean squared error:- 8.896981413404553e-08
Root mean squared error:- 0.0002982780818867614
r2 Score:- 0.9999996387539164

At random state 493 the model performs very well
At random state 493
Training score is
0.999997573098744
Predicted value is [1.7614269 2.46515608 2.61954602 2.23232002 1.64835858 1.80046512
1.21359863 2.32133857 2.82364771 1.9917213 2.21127372 2.85765841
0.99850416 1.61623175 2.51750032 2.30871661 2.50989856 2.27416077
2.53922946 1.57165006 2.24632559 2.51764457 2.12505924 2.80736662
1.8766362 2.75457807 2.11352545 1.96966293 2.44688398 1.92339483] and Actual value is [
1.76145, 2.4653099999999997, 2.61955, 2.2327, 1.6488, 1.8010099999999998, 1.21305, 2.3214
200000000003, 2.82334, 1.9917200000000002, 2.21126, 2.85737, 0.99895, 1.6158299999999999,
2.5173799999999997, 2.30919, 2.51009, 2.27394, 2.5394200000000002, 1.5714, 2.246390000000
003, 2.51767, 2.12466, 2.8079099999999997, 1.8763400000000001, 2.75414, 2.11399000000000
03, 1.9699400000000002, 2.4464900000000003, 1.92313]
Mean absolute error:- 0.00027499230138253725
Mean squared error:- 1.0620216392580425e-07
Root mean squared error:- 0.0003258867348110448
r2 Score:- 0.9999994961050576

At random state 494 the model performs very well
At random state 494
Training score is
0.999997019212903

Predicted value is [1.969712 1.73928788 1.85110509 2.37157358 2.45362741 2.59438899
1.95597576 1.75334673 2.61955252 2.51751075 3.60184837 2.83597231
3.08882753 2.24190266 1.79318257 1.89856183 1.57165968 1.95849663
3.17759478 2.84826494 1.76143035 3.05133397 2.63447964 2.44684258
2.79886608 2.26647592 1.83347027 2.2080444 2.48667151 1.44420431] and Actual value is [
1.9699400000000002, 1.7393299999999998, 1.851, 2.3711900000000004, 2.4537299999999997, 2.
5945, 1.9563700000000002, 1.7536, 2.61955, 2.5173799999999997, 3.6021400000000003, 2.8360
000000000003, 3.08854, 2.24173, 1.79293, 1.89894, 1.5714, 1.95812, 3.17728, 2.84848, 1.76
145, 3.05137, 2.6343, 2.4464900000000003, 2.79832, 2.26646, 1.83302, 2.20857, 2.48676, 1.
44395]

Mean absolute error:- 0.00022660439805069672
Mean squared error:- 7.464697917800776e-08
Root mean squared error:- 0.00027321599363508675
r2 Score:- 0.9999997289512201

At random state 495 the model performs very well

At random state 495

Training score is

0.9999997544208685

Predicted value is [2.32378906 2.44846085 1.86971029 2.20149046 1.59862623 1.73835241
2.59441213 3.08883979 2.46557388 1.61622665 2.00082022 1.95248313
1.95846415 1.78524943 1.83344239 1.21360514 1.24122261 2.1250887
3.17758457 1.38097255 2.53340056 2.13140372 2.11813823 2.20799906
2.2741339 2.5099012 1.84416422 1.57039955 1.75335385 2.46515265] and Actual value is [
2.32407, 2.44876, 1.8698400000000002, 2.20173, 1.5988799999999999, 1.73797, 2.5945, 3.088
54, 2.4657, 1.6158299999999999, 2.00073, 1.9521, 1.95812, 1.78555, 1.83302, 1.21305, 1.24
074, 2.12466, 3.17728, 1.38079, 2.5332, 2.1309, 2.11773, 2.20857, 2.27394, 2.51009, 1.844
08, 1.57059, 1.7536, 2.4653099999999997]

Mean absolute error:- 0.0002911430234959692
Mean squared error:- 1.035235603571287e-07
Root mean squared error:- 0.0003217507736698215
r2 Score:- 0.9999995293682555

At random state 496 the model performs very well

At random state 496

Training score is

0.9999997038583242

Predicted value is [1.61620178 2.85766342 3.10729343 1.86609351 1.44416222 1.93112453
3.191156 2.27413831 1.63326579 0.89939414 2.24631034 1.46505354
2.20149562 1.69478508 1.99178565 0.98171301 1.3473257 1.41717688
2.0008008 2.1313784 1.95075781 2.46516112 2.10997895 1.95296244
1.88501252 1.87877436 2.86705973 2.79880752 2.32309224 2.22002445] and Actual value is [
1.6158299999999999, 2.85737, 3.107090000000004, 1.86565, 1.44395, 1.931290000000002, 3.
1913099999999996, 2.27394, 1.6332799999999998, 0.89991, 2.2463900000000003, 1.46494, 2.20
173, 1.6944, 1.991720000000002, 0.98195, 1.34759, 1.41723, 2.00073, 2.1309, 1.95071, 2.4
653099999999997, 2.11032, 1.95335, 1.885409999999998, 1.87877, 2.86712, 2.79832, 2.32323
, 2.21978]

Mean absolute error:- 0.00022704251812480185
Mean squared error:- 7.408924480058462e-08
Root mean squared error:- 0.0002721933959532902
r2 Score:- 0.9999997626253118

At random state 497 the model performs very well

At random state 497

Training score is

0.9999997322162728

Predicted value is [2.20796724 1.99179196 1.97544166 1.59578228 3.10705467 2.67614512
2.44846663 2.41447815 2.11552736 2.49201293 2.46514072 2.21999701
1.63328146 1.73802699 0.89939676 2.84822751 2.11811041 2.86698121
1.622542 1.96942379 2.24186367 1.21358791 1.89857054 2.50956983
2.32304305 2.2322836 3.19108819 3.26040985 1.85996688 2.4749938] and Actual value is [
2.20857, 1.991720000000002, 1.9757, 1.59541, 3.10712, 2.67585, 2.44876, 2.41484000000000
03, 2.1156900000000003, 2.4920400000000003, 2.4653099999999997, 2.21978, 1.63327999999999
98, 1.7379900000000001, 0.89991, 2.84848, 2.11773, 2.86712, 1.62215, 1.9696099999999999,
2.24173, 1.21305, 1.89894, 2.51011, 2.32323, 2.2327, 3.191309999999996, 3.26001, 1.8604,
2.4748900000000003]

```
Mean absolute error:- 0.0002713909512954471
Mean squared error:- 1.0057533411845437e-07
Root mean squared error:- 0.0003171361444529059
r2 Score:- 0.9999996542828089
*****
```

```
At random state 498 the model performs very well
At random state 498
Training score is
0.999997188129656
```

```
Predicted value is [1.38095327 1.8334818 1.68156057 1.5986026 2.70221188 1.85988837
2.51754189 1.88959316 0.98170419 1.71926763 2.20140729 2.26653497
2.86704422 1.84413314 1.73835761 1.63317733 1.97552471 1.95303012
2.11014917 2.31981196 1.41716224 1.88530666 2.06395119 2.79890213
1.61615692 2.49208904 0.89935874 1.57032054 2.37161138 3.19115573] and Actual value is [
1.38079, 1.83302, 1.68135, 1.5988799999999999, 2.70201, 1.8604, 2.5173799999999997, 1.889
3099999999998, 0.98195, 1.7195599999999998, 2.20173, 2.26646, 2.86712, 1.84408, 1.73797,
1.6332799999999998, 1.9757, 1.95335, 2.11032, 2.31945, 1.41723, 1.8850099999999999, 2.063
67, 2.79832, 1.6158299999999999, 2.4920400000000003, 0.89991, 1.57059, 2.37119000000000004
, 3.1913099999999996]
```

```
Mean absolute error:- 0.00026182372905361555
Mean squared error:- 8.953575736476319e-08
Root mean squared error:- 0.0002992252619094237
r2 Score:- 0.999999668657345
*****
```

```
At random state 499 the model performs very well
At random state 499
Training score is
0.999997224323929
```

```
Predicted value is [1.62254084 2.06385986 1.26498489 2.53346212 1.9917931 2.59443421
2.45191862 1.87881085 1.84416 1.95289636 2.12378469 2.74287289
2.26426546 1.83337198 2.26650963 0.99841178 2.47501381 2.75455102
2.86706832 2.70222769 2.3716003 0.67139396 2.44682569 1.89857456
2.82371622 1.64842754 1.42787357 3.26052326 2.32385425 1.80035986] and Actual value is [
1.62215, 2.06367, 1.26462, 2.5332, 1.9917200000000002, 2.5945, 2.4517599999999997, 1.8787
7, 1.84408, 1.95335, 2.12367, 2.74255, 2.26425, 1.83302, 2.26646, 0.99895, 2.4748900000000
003, 2.75414, 2.86712, 2.70201, 2.3711900000000004, 0.67108, 2.4464900000000003, 1.89894
, 2.82334, 1.6488, 1.42766, 3.26001, 2.32407, 1.8010099999999998]
```

```
Mean absolute error:- 0.000268118594755488
Mean squared error:- 9.93016656935515e-08
Root mean squared error:- 0.0003151216680800473
r2 Score:- 0.9999996964864244
*****
```

```
At random state 500 the model performs very well
At random state 500
Training score is
0.999997365664014
```

```
Predicted value is [2.37157148 2.05113183 1.95846776 1.79314299 2.09979588 2.32308394
1.96940498 1.26500692 1.21362183 2.11811902 2.02487 1.38101052
1.94927096 1.83346214 1.94270643 1.42790257 0.99841093 2.20796515
1.63328618 2.44220209 3.08885934 1.4616635 3.03487894 2.266498
2.67621145 2.61953394 2.70219978 1.6948203 1.9918094 2.12504705] and Actual value is [
2.3711900000000004, 2.05125, 1.95812, 1.79293, 2.10017, 2.32323, 1.9696099999999999, 1.26
462, 1.21305, 2.11773, 2.025, 1.38079, 1.9493900000000002, 1.83302, 1.9429599999999998, 1
.42766, 0.99895, 2.20857, 1.6332799999999998, 2.44191, 3.08854, 1.46181, 3.035, 2.26646,
2.67585, 2.61955, 2.70201, 1.6944, 1.9917200000000002, 2.12466]
```

```
Mean absolute error:- 0.0002690779749217128
Mean squared error:- 9.793960177818055e-08
Root mean squared error:- 0.0003129530344607327
r2 Score:- 0.9999996154029411
*****
```

```
At random state 501 the model performs very well
At random state 501
Training score is
0.9999971105615
```

Predicted value is [3.10709902 2.50985326 1.86960054 1.59859698 2.24623666 1.41712582
2.45364898 1.26502067 2.18868579 2.0846583 2.21998591 3.17766868
1.87963645 0.99836529 2.89313357 1.24112229 1.88957331 1.95835985
2.11556254 1.73802634 1.95278517 1.57158113 2.20782381 3.19108413
2.43838926 3.60182839 2.02491632 1.97544831 1.59887203 2.32304083] and Actual value is [
3.10712, 2.51009, 1.8698400000000002, 1.5988799999999999, 2.2463900000000003, 1.41723, 2.
4537299999999997, 1.26462, 2.18896, 2.08528, 2.21978, 3.17728, 1.8799599999999999, 0.9989
5, 2.89319, 1.24074, 1.889309999999998, 1.95812, 2.1156900000000003, 1.7379900000000001,
1.95335, 1.5714, 2.20857, 3.191309999999996, 2.43872, 3.6021400000000003, 2.025179999999
998, 1.9757, 1.59927, 2.32323]

Mean absolute error:- 0.00028289112406943616
Mean squared error:- 1.0946978886808105e-07
Root mean squared error:- 0.00033086219014580835
r2 Score:- 0.99999700963928

At random state 502 the model performs very well

At random state 502

Training score is

0.999997385431262

Predicted value is [1.83346713 2.099819 2.486599 1.88496246 3.19115605 2.05115518
1.96968216 2.67776109 2.30870586 1.21359763 2.43858176 2.27409709
2.67615841 2.45185104 1.85111657 2.49205846 2.85762812 2.76611843
1.64833544 1.42787185 2.5333708 2.37157758 0.98171194 1.92339531
1.76139518 1.88526936 2.50955596 2.74278846 1.89858269 2.43249198] and Actual value is [
1.83302, 2.10017, 2.48676, 1.8854099999999998, 3.1913099999999996, 2.05125, 1.96994000000
00002, 2.67782, 2.30919, 1.21305, 2.43872, 2.27394, 2.67585, 2.4517599999999997, 1.851, 2
.4920400000000003, 2.85737, 2.76579, 1.6488, 1.42766, 2.5332, 2.371190000000004, 0.98195
, 1.92313, 1.76145, 1.8850099999999999, 2.51011, 2.74255, 1.89894, 2.43209]

Mean absolute error:- 0.0002674823156056605
Mean squared error:- 9.374664836658561e-08
Root mean squared error:- 0.0003061807446045319
r2 Score:- 0.9999996164596825

At random state 503 the model performs very well

At random state 503

Training score is

0.999997056895841

Predicted value is [2.4656046 1.73806056 2.8932229 2.31985827 2.50992954 2.32311514
1.93118951 2.51763982 1.4172069 1.21366628 1.69489746 1.46509045
2.7988115 1.8852649 2.84826733 1.58828355 2.12377353 3.03481838
1.34741571 1.62263442 2.24193353 1.57168968 2.53917155 3.60176957
2.27542122 1.616261 1.94939392 1.86968966 2.06399428 2.70219583] and Actual value is [
2.4657, 1.7379900000000001, 2.89319, 2.31945, 2.51009, 2.32323, 1.9312900000000002, 2.517
67, 1.41723, 1.21305, 1.6944, 1.46494, 2.79832, 1.8850099999999999, 2.84848, 1.58782, 2.1
2367, 3.035, 1.34759, 1.62215, 2.24173, 1.5714, 2.5394200000000002, 3.6021400000000003, 2
.27513, 1.6158299999999999, 1.9493900000000002, 1.8698400000000002, 2.06367, 2.70201]

Mean absolute error:- 0.00023885207738316705
Mean squared error:- 8.382599641722932e-08
Root mean squared error:- 0.00028952719460739664
r2 Score:- 0.999997385196167

At random state 504 the model performs very well

At random state 504

Training score is

0.99999718079354

Predicted value is [2.43253177 1.85999421 1.5985922 2.51769289 1.24118844 2.41453996
1.68432461 2.70215599 2.12511379 2.13143674 2.11353823 2.44694428
2.45190119 3.05124639 2.23765714 2.75463594 1.85113312 1.4650387
2.06399039 1.75878311 2.37159473 2.79067709 3.10740982 2.2201003
1.75327731 2.32376318 2.89327257 3.26050312 2.26426081 0.65447209] and Actual value is [
2.43209, 1.8604, 1.5988799999999999, 2.51767, 1.24074, 2.4148400000000003, 1.68435, 2.702
01, 2.12466, 2.1309, 2.1139900000000003, 2.4464900000000003, 2.4517599999999997, 3.05137,
2.2374099999999997, 2.75414, 1.851, 1.46494, 2.06367, 1.75873, 2.371190000000004, 2.7909
4, 3.1070900000000004, 2.21978, 1.7536, 2.32407, 2.89319, 3.26001, 2.26425, 0.65428999999
9999]

Mean absolute error:- 0.0002764584770436322
Mean squared error:- 1.018416871002376e-07
Root mean squared error:- 0.00031912644374955455
r2 Score:- 0.9999996807674414

At random state 505 the model performs very well
At random state 505
Training score is
0.9999997018696928
Predicted value is [3.03486377 1.8787861 3.19111232 2.24707395 2.06396118 2.26422436
1.73799151 2.70214228 0.98175019 1.95071589 2.21121936 3.08884358
1.59571968 2.04406559 1.42787148 2.43246243 1.57167271 2.67775894
1.24118354 2.12376014 2.74278528 2.45364064 1.96939482 2.24708629
1.88958365 3.10730635 2.5095948 1.8004632 2.18866263 2.53337855] and Actual value is [
3.035, 1.87877, 3.1913099999999996, 2.24743, 2.06367, 2.26425, 1.7379900000000001, 2.7020
1, 0.98195, 1.95071, 2.21126, 3.08854, 1.59541, 2.0438400000000003, 1.42766, 2.43209, 1.5
714, 2.67782, 1.24074, 2.12367, 2.74255, 2.453729999999997, 1.969609999999999, 2.24729,
1.889309999999998, 3.1070900000000004, 2.51011, 1.801009999999998, 2.18896, 2.5332]

Mean absolute error:- 0.00021548922598646863
Mean squared error:- 6.640404396419543e-08
Root mean squared error:- 0.00025768982122737296
r2 Score:- 0.9999997761241021

At random state 506 the model performs very well
At random state 506
Training score is
0.9999997243795774
Predicted value is [1.57169471 2.123803 1.46507278 1.86968815 1.34739864 1.9694003
2.24707628 3.08885738 2.02489474 2.32131532 2.21124396 1.2650422
2.10994752 1.21360412 2.27541729 1.9524438 1.86004461 2.79879303
1.87875949 0.67143116 2.27416517 0.98174495 2.44220064 2.24635412
1.5883046 2.08478714 2.80739197 2.05105055 2.75457267 2.47495061] and Actual value is [
1.5714, 2.12367, 1.46494, 1.8698400000000002, 1.34759, 1.969609999999999, 2.24743, 3.088
54, 2.025, 2.3214200000000003, 2.21126, 1.26462, 2.11032, 1.21305, 2.27513, 1.9521, 1.860
4, 2.79832, 1.87877, 0.67108, 2.27394, 0.98195, 2.44191, 2.2463900000000003, 1.58782, 2.0
8528, 2.807909999999997, 2.05125, 2.75414, 2.4748900000000003]

Mean absolute error:- 0.0002708473208514084
Mean squared error:- 9.758295882602238e-08
Root mean squared error:- 0.00031238271211131766
r2 Score:- 0.9999996749201676

At random state 507 the model performs very well
At random state 507
Training score is
0.9999997675014964
Predicted value is [2.20791526 2.24713722 1.62259179 2.24180259 1.57161598 1.87875606
2.23227748 1.73835231 1.86423637 2.32375502 1.59581949 2.10996665
1.79309275 2.46555936 2.09031441 2.1886046 2.51770247 1.80046046
2.86690179 2.06388656 2.83593144 2.50986863 2.2664579 2.76611971
1.2136252 2.22005417 1.83342942 1.87666121 1.26504366 1.88503825] and Actual value is [
2.20857, 2.24729, 1.62215, 2.24173, 1.5714, 1.87877, 2.2327, 1.73797, 1.86399, 2.32407, 1
.59541, 2.11032, 1.79293, 2.4657, 2.090659999999997, 2.18896, 2.51767, 1.801009999999999
8, 2.86712, 2.06367, 2.8360000000000003, 2.51009, 2.26646, 2.76579, 1.21305, 2.21978, 1.8
3302, 1.8763400000000001, 1.26462, 1.885409999999998]

Mean absolute error:- 0.0002899717079015781
Mean squared error:- 1.1076509816330047e-07
Root mean squared error:- 0.0003328139092094867
r2 Score:- 0.9999993392270257

At random state 508 the model performs very well
At random state 508
Training score is
0.9999997179112238
Predicted value is [1.86614425 2.6195372 2.85768263 2.00078803 2.49201623 2.70222379
1.41713006 2.50989095 2.44689441 1.61627334 1.84415214 2.13139483

2.84831886 2.0997911 1.63321548 1.88504919 2.53345685 2.5392085
1.88959874 1.46177204 2.59442465 2.12382917 3.10716083 1.68150817
1.75336087 2.47496004 1.75872045 2.0510018 2.89324805 2.3198704] and Actual value is [
1.86565, 2.61955, 2.85737, 2.00073, 2.4920400000000003, 2.70201, 1.41723, 2.51009, 2.4464
900000000003, 1.6158299999999999, 1.84408, 2.1309, 2.84848, 2.10017, 1.6332799999999998,
1.8854099999999998, 2.5332, 2.5394200000000002, 1.8893099999999998, 1.46181, 2.5945, 2.12
367, 3.10712, 1.68135, 1.7536, 2.4748900000000003, 1.75873, 2.05125, 2.89319, 2.31945]

Mean absolute error:- 0.00020227567211289116
Mean squared error:- 6.375244445335872e-08
Root mean squared error:- 0.0002524924641516232
r2 Score:- 0.9999996962552453

At random state 509 the model performs very well

At random state 509

Training score is

0.9999997525259412

Predicted value is [2.02484878 2.10994086 2.23766192 2.45365238 1.95074583 2.53337202
1.9696602 2.23228091 1.8766533 2.46553087 1.5716462 1.9494237
2.04401071 1.95591418 1.24120673 2.0903035 1.64834851 2.24177914
1.8334007 2.44841054 2.32372933 2.11811438 1.6380716 2.32130119
2.12374519 2.86699262 1.89856713 2.84823435 1.61620091 2.4385939] and Actual value is [
2.025, 2.11032, 2.2374099999999997, 2.4537299999999997, 1.95071, 2.5332, 1.969940000000000
02, 2.2327, 1.8763400000000001, 2.4657, 1.5714, 1.9493900000000002, 2.0438400000000003, 1
.9563700000000002, 1.24074, 2.0906599999999997, 1.6488, 2.24173, 1.83302, 2.44876, 2.3240
7, 2.11773, 1.63794, 2.3214200000000003, 2.12367, 2.86712, 1.89894, 2.84848, 1.6158299999
99999, 2.43872]

Mean absolute error:- 0.00025010241444508213
Mean squared error:- 8.11512856482726e-08
Root mean squared error:- 0.00028487064722128286
r2 Score:- 0.9999993774439172

At random state 510 the model performs very well

At random state 510

Training score is

0.9999997343202575

Predicted value is [3.10735746 1.95300134 1.73801755 2.20149823 2.26434845 1.88537299
1.9525412 2.11816592 2.20796443 2.37168125 2.24628561 2.24186461
2.51773236 2.83596234 3.05123984 2.49215257 1.95073481 2.13139622
1.41719776 2.51760436 1.57034677 2.67618427 2.46525465 2.70217993
1.7533447 1.63816236 1.87664933 2.43246547 2.89326855 2.2377396] and Actual value is [
3.107090000000004, 1.95335, 1.737990000000001, 2.20173, 2.26425, 1.8850099999999999, 1.
9521, 2.11773, 2.20857, 2.371190000000004, 2.2463900000000003, 2.24173, 2.51767, 2.83600
0000000003, 3.05137, 2.492040000000003, 1.95071, 2.1309, 1.41723, 2.517379999999997, 1
.57059, 2.67585, 2.465309999999997, 2.70201, 1.7536, 1.63794, 1.876340000000001, 2.4320
9, 2.89319, 2.23740999999997]

Mean absolute error:- 0.00023478674593818322
Mean squared error:- 8.042846731486174e-08
Root mean squared error:- 0.00028359913137183924
r2 Score:- 0.9999995555610449

At random state 511 the model performs very well

At random state 511

Training score is

0.999999760553071

Predicted value is [2.20789802 2.08475511 1.34733556 2.83595816 1.76150446 2.51770508
2.82366562 2.20149009 2.31983949 2.27551652 1.59897552 2.06387486
2.70219358 2.18864904 2.27409337 2.32312356 2.3237523 2.67619363
2.23230957 1.86002524 2.67779188 2.4421212 2.50991544 1.63813425
1.58824513 2.12506667 1.95075464 1.62257227 1.68159204 1.6162411] and Actual value is [
2.20857, 2.08528, 1.34759, 2.83600000000003, 1.76145, 2.51767, 2.82334, 2.20173, 2.3194
5, 2.27513, 1.59927, 2.06367, 2.70201, 2.18896, 2.27394, 2.32323, 2.32407, 2.67585, 2.232
7, 1.8604, 2.67782, 2.44191, 2.51009, 1.63794, 1.58782, 2.12466, 1.95071, 1.62215, 1.6813
5, 1.615829999999999]

Mean absolute error:- 0.0002721469916638168
Mean squared error:- 9.786229731454087e-08

Root mean squared error:- 0.0003128295019887684

r2 Score:- 0.9999993964328215

At random state 512 the model performs very well

At random state 512

Training score is

0.9999997443540274

Predicted value is [2.74285283 2.11811334 2.75457509 2.27546651 2.79881978 1.96970731

1.88517123 1.87878889 2.53343866 1.87967515 1.58826921 1.61626233

2.08475683 2.46558709 1.76149334 2.31985888 0.98179758 2.47497452

1.86613405 2.32380828 2.24709001 3.05127704 2.61950364 2.00078439

2.21123553 1.42788504 2.0639104 1.95294801 2.76617732 1.44418933] and Actual value is [

2.74255, 2.11773, 2.75414, 2.27513, 2.79832, 1.9699400000000002, 1.8850099999999999, 1.87

877, 2.5332, 1.8799599999999999, 1.58782, 1.6158299999999999, 2.08528, 2.4657, 1.76145, 2

.31945, 0.98195, 2.4748900000000003, 1.86565, 2.32407, 2.24743, 3.05137, 2.61955, 2.00073

, 2.21126, 1.42766, 2.06367, 1.95335, 2.76579, 1.44395]

Mean absolute error:- 0.000263289776155747

Mean squared error:- 9.31413560454335e-08

Root mean squared error:- 0.00030519068800576715

r2 Score:- 0.9999995716881728

At random state 513 the model performs very well

At random state 513

Training score is

0.999999726010997

Predicted value is [1.34730949 2.063859 2.37155169 1.79310133 2.30869679 2.3237591

2.43857482 2.02496262 2.10996762 1.64835206 1.8660766 2.11557291

1.78519431 2.43245271 2.1237511 1.68430571 1.73926047 1.57032972

2.67777066 3.08881507 3.60184378 1.99172858 2.09978482 2.32306683

2.50988021 2.26644604 2.24711925 2.44841949 1.95070472 2.86698902] and Actual value is [

1.34759, 2.06367, 2.3711900000000004, 1.79293, 2.30919, 2.32407, 2.43872, 2.02517999999999

998, 2.11032, 1.6488, 1.86565, 2.1156900000000003, 1.78555, 2.43209, 2.12367, 1.68435, 1.

7393299999999998, 1.57059, 2.67782, 3.08854, 3.6021400000000003, 1.9917200000000002, 2.10

017, 2.32323, 2.51009, 2.26646, 2.24729, 2.44876, 1.95071, 2.86712]

Mean absolute error:- 0.00022452078571191987

Mean squared error:- 6.966455126866409e-08

Root mean squared error:- 0.00026394043128831945

r2 Score:- 0.999999669038282

At random state 514 the model performs very well

At random state 514

Training score is

0.9999996744606825

Predicted value is [2.45367966 3.2605072 1.38093589 2.84828719 2.18864823 2.85765446

0.98169302 2.24712677 2.49205626 1.34729982 1.41716191 1.61617941

1.79314682 1.58828601 3.05130313 1.88526922 2.79883154 2.12506838

2.83600909 1.71927666 2.82365946 2.86706158 1.57164862 2.50992191

2.76614979 1.76140632 1.64833919 1.87969821 3.60191687 2.23774106] and Actual value is [

2.4537299999999997, 3.26001, 1.38079, 2.84848, 2.18896, 2.85737, 0.98195, 2.24729, 2.4920

400000000003, 1.34759, 1.41723, 1.6158299999999999, 1.79293, 1.58782, 3.05137, 1.88500999

99999999, 2.79832, 2.12466, 2.836000000000003, 1.7195599999999998, 2.82334, 2.86712, 1.5

714, 2.51009, 2.76579, 1.76145, 1.6488, 1.8799599999999999, 3.602140000000003, 2.2374099

99999997]

Mean absolute error:- 0.00024409110801380343

Mean squared error:- 8.00666301031417e-08

Root mean squared error:- 0.000282960474453839

r2 Score:- 0.9999998082677619

At random state 515 the model performs very well

At random state 515

Training score is

0.9999997134533043

Predicted value is [1.44424881 2.32136797 2.1314533 2.85764334 1.68155951 2.1136036

1.59579315 3.26048936 2.1886714 1.73795846 2.32309264 2.3716051

2.26425314 1.58835159 2.7661171 1.95075072 1.4278992 1.7193245

1.86612957 1.26503341 3.05123066 2.61960361 3.1071278 1.86976638
2.21130768 1.57170511 2.79068634 1.79317147 3.19114162 2.43250449] and Actual value is [1.44395, 2.3214200000000003, 2.1309, 2.85737, 1.68135, 2.1139900000000003, 1.59541, 3.2601, 2.18896, 1.7379900000000001, 2.32323, 2.3711900000000004, 2.26425, 1.58782, 2.76579, 1.95071, 1.42766, 1.7195599999999998, 1.86565, 1.26462, 3.05137, 2.61955, 3.10712, 1.869840000000002, 2.21126, 1.5714, 2.79094, 1.79293, 3.191309999999996, 2.43209]

Mean absolute error:- 0.000249462347127416

Mean squared error:- 8.89617877760881e-08

Root mean squared error:- 0.0002982646270949475

r2 Score:- 0.999997158842406

At random state 516 the model performs very well

At random state 516

Training score is

0.999997280986281

Predicted value is [0.89943812 1.9524941 2.31988031 2.51746983 1.93115615 1.68156439 1.61629677 2.47496957 2.63445161 2.20785649 2.44213836 2.1156085 2.46515144 2.61949504 2.00075495 1.88963158 1.26505507 1.87657896 1.95286342 2.43844459 2.7907689 0.67150514 1.73930165 1.24116449 3.17766335 1.71922641 2.30878225 2.59441605 1.83336994 1.8696296] and Actual value is [0.89991, 1.9521, 2.31945, 2.5173799999999997, 1.9312900000000002, 1.68135, 1.6158299999999999, 2.4748900000000003, 2.6343, 2.20857, 2.44191, 2.1156900000000003, 2.46530999999999997, 2.61955, 2.00073, 1.8893099999999998, 1.26462, 1.8763400000000001, 1.95335, 2.43872, 2.79094, 0.67108, 1.7393299999999998, 1.24074, 3.17728, 1.7195599999999998, 2.30919, 2.5945, 1.83302, 1.8698400000000002]

Mean absolute error:- 0.00027566142698716895

Mean squared error:- 1.0435582329289505e-07

Root mean squared error:- 0.0003230415194567024

r2 Score:- 0.999996530031832

At random state 517 the model performs very well

At random state 517

Training score is

0.999997369436731

Predicted value is [2.32374028 1.8642483 2.0847437 2.50955642 2.32302442 2.0249471 2.84819876 2.51755216 1.9696581 2.45180015 2.2013979 1.46510666 2.24705319 2.63444274 3.60169875 2.23230934 2.21994968 1.427907 2.79885068 1.26498584 2.11812694 2.80735843 2.26416055 2.46550867 1.95076213 1.89852312 3.19106613 2.11349209 2.27409199 1.38101304] and Actual value is [2.32407, 1.86399, 2.08528, 2.51011, 2.32323, 2.025179999999998, 2.84848, 2.51767, 1.969940000000002, 2.451759999999997, 2.20173, 1.46494, 2.24743, 2.6343, 3.602140000000003, 2.2327, 2.21978, 1.42766, 2.79832, 1.26462, 2.11773, 2.807909999999997, 2.26425, 2.4657, 1.95071, 1.89894, 3.191309999999996, 2.113990000000003, 2.27394, 1.38079]

Mean absolute error:- 0.00029386835824591896

Mean squared error:- 1.0854092883963946e-07

Root mean squared error:- 0.00032945550358074073

r2 Score:- 0.99999574172018

At random state 518 the model performs very well

At random state 518

Training score is

0.999997299050442

Predicted value is [1.83354124 1.96935037 2.27407456 2.86717251 2.27541007 1.78527998 1.34731309 1.59897713 0.89938497 2.11819964 3.60186241 1.89855767 1.9310959 1.68424152 2.7989031 2.13138415 2.50998881 1.96966058 2.44684352 3.10716072 1.71929082 1.38100808 2.44228176 1.95854666 1.92340531 1.85116036 2.24705228 2.59438969 2.41446177 2.53920815] and Actual value is [1.83302, 1.969609999999999, 2.27394, 2.86712, 2.27513, 1.78555, 1.34759, 1.59927, 0.89991, 2.11773, 3.602140000000003, 1.89894, 1.931290000000002, 1.68435, 2.79832, 2.1309, 2.51009, 1.969940000000002, 2.446490000000003, 3.10712, 1.719559999999998, 1.38079, 2.44191, 1.95812, 1.92313, 1.851, 2.24743, 2.5945, 2.414840000000003, 2.539420000000002]

Mean absolute error:- 0.0002895513421576013

Mean squared error:- 1.0388546373269912e-07

Root mean squared error:- 0.0003223126800681275

r2 Score:- 0.999996462109398

At random state 519 the model performs very well

At random state 519

Training score is

0.999999736610735

Predicted value is [1.63804523 2.20791749 2.09028266 2.41451469 1.44414193 1.7587512
2.79873169 2.43246373 2.32372708 0.65448946 2.10991416 1.73927231
2.1885739 2.4750228 2.70208253 2.46514864 2.06385451 2.61953554
1.68431368 2.22005514 2.3230947 1.75333298 1.59859253 1.58828427
1.34727072 2.02483935 2.23225988 1.59582575 2.75461383 1.26499619] and Actual value is [
1.63794, 2.20857, 2.0906599999999997, 2.4148400000000003, 1.44395, 1.75873, 2.79832, 2.43
209, 2.32407, 0.6542899999999999, 2.11032, 1.7393299999999998, 2.18896, 2.4748900000000000
3, 2.70201, 2.4653099999999997, 2.06367, 2.61955, 1.68435, 2.21978, 2.32323, 1.7536, 1.59
88799999999999, 1.58782, 1.34759, 2.025, 2.2327, 1.59541, 2.75414, 1.26462]

Mean absolute error:- 0.00026893222609916114

Mean squared error:- 9.714422413374442e-08

Root mean squared error:- 0.00031167968193923775

r2 Score:- 0.9999996002052578

At random state 520 the model performs very well

At random state 520

Training score is

0.9999997427243127

Predicted value is [2.23229779 0.6544994 2.24710716 2.4484806 1.7931381 1.85110512
1.99179159 1.87660583 1.86606694 1.68432384 1.75876792 2.3213148
2.20797187 1.59858985 2.89316591 1.64830038 2.2418017 1.97539961
3.10707268 2.2200215 1.76139969 1.75334407 2.50953054 1.59583662
1.73928053 1.83346587 2.41448941 1.59901071 2.44683263 1.58829417] and Actual value is [
2.2327, 0.6542899999999999, 2.24743, 2.44876, 1.79293, 1.851, 1.9917200000000002, 1.87634
00000000001, 1.86565, 1.68435, 1.75873, 2.3214200000000003, 2.20857, 1.5988799999999999,
2.89319, 1.6488, 2.24173, 1.9757, 3.10712, 2.21978, 1.76145, 1.7536, 2.51011, 1.59541, 1.
7393299999999998, 1.83302, 2.4148400000000003, 1.59927, 2.4464900000000003, 1.58782]

Mean absolute error:- 0.00025859833454337696

Mean squared error:- 9.575348933335948e-08

Root mean squared error:- 0.0003094406071176818

r2 Score:- 0.9999995429090995

At random state 521 the model performs very well

At random state 521

Training score is

0.9999997226366004

Predicted value is [2.32310979 1.570371 2.13136002 1.96942078 2.20153414 1.88961052
1.87659374 1.86966123 1.71925163 2.89324911 1.79311704 2.27547262
1.6815595 1.76148983 2.51750391 3.08888909 2.70221491 1.4650515
2.61953801 3.19115145 2.2200458 2.08475045 2.82369779 3.17767886
1.96972579 2.00077519 1.84416486 1.61624727 2.24711709 2.37156298] and Actual value is [
2.32323, 1.57059, 2.1309, 1.9696099999999999, 2.20173, 1.8893099999999998, 1.876340000000
0001, 1.8698400000000002, 1.7195599999999998, 2.89319, 1.79293, 2.27513, 1.68135, 1.76145
, 2.5173799999999997, 3.08854, 2.70201, 1.46494, 2.61955, 3.1913099999999996, 2.21978, 2.
08528, 2.82334, 3.17728, 1.9699400000000002, 2.00073, 1.84408, 1.6158299999999999, 2.2474
3, 2.3711900000000004]

Mean absolute error:- 0.00023410509580121068

Mean squared error:- 7.175439177380681e-08

Root mean squared error:- 0.00026787010242617

r2 Score:- 0.9999996886429238

At random state 522 the model performs very well

At random state 522

Training score is

0.999999671397513

Predicted value is [1.75329819 1.59572165 2.11813069 2.50987739 0.67134554 2.24711142
1.38090477 3.10713297 2.09024941 1.94274565 1.97544234 1.96970303
2.86703951 2.85761413 2.44846246 2.10995789 0.89939841 1.86424947
3.26046802 2.44687081 2.432465 3.03485634 2.53339197 3.60188869
0.98167541 1.34730642 2.02486326 1.69481591 2.18861125 2.32309955] and Actual value is [

1.7536, 1.59541, 2.11773, 2.51009, 0.67108, 2.24743, 1.38079, 3.10712, 2.0906599999999997
, 1.9429599999999998, 1.9757, 1.9699400000000002, 2.86712, 2.85737, 2.44876, 2.11032, 0.8991, 1.86399, 3.26001, 2.4464900000000003, 2.43209, 3.035, 2.5332, 3.6021400000000003, 0.98195, 1.34759, 2.025, 1.6944, 2.18896, 2.32323]

Mean absolute error:- 0.00027347797409602953
Mean squared error:- 8.777989662766468e-08
Root mean squared error:- 0.0002962767230608316
r2 Score:- 0.9999998099830015

At random state 523 the model performs very well

At random state 523

Training score is

0.9999997096542577

Predicted value is [2.10998491 1.78522222 1.46172188 1.73791882 1.92341487 2.82359962
2.0902404 2.51747267 2.86705943 2.27413667 1.97542905 3.08884861
2.24710987 3.10734106 2.11357109 1.64833534 1.24115979 1.83341494
2.48654614 2.79064012 1.38094226 2.44221032 1.62258488 2.45182821
1.8511447 3.03486312 2.50985221 1.3473259 1.444198 1.73928815] and Actual value is [
2.11032, 1.78555, 1.46181, 1.7379900000000001, 1.92313, 2.82334, 2.090659999999997, 2.5173799999999997, 2.86712, 2.27394, 1.9757, 3.08854, 2.24729, 3.1070900000000004, 2.11399000000003, 1.6488, 1.24074, 1.83302, 2.48676, 2.79094, 1.38079, 2.44191, 1.62215, 2.451759999999997, 1.851, 3.035, 2.51009, 1.34759, 1.44395, 1.7393299999999998]

Mean absolute error:- 0.00024626522584417405
Mean squared error:- 7.559618048775941e-08
Root mean squared error:- 0.00027494759589376196
r2 Score:- 0.9999997434840572

At random state 524 the model performs very well

At random state 524

Training score is

0.9999997179345801

Predicted value is [2.44841797 2.59435275 2.61953124 2.24708936 3.03480229 1.57034669
1.41714721 1.24119085 2.23769596 2.20143727 2.2664731 1.38099249
2.32307051 3.19106235 2.45358491 1.58828225 2.67614483 1.87657685
1.87875411 2.79061303 2.1135342 2.12376563 2.48656756 2.83593542
2.09025216 1.44420889 2.06391593 2.30867061 2.12500966 0.89946146] and Actual value is [
2.44876, 2.5945, 2.61955, 2.24743, 3.035, 1.57059, 1.41723, 1.24074, 2.237409999999997,
2.20173, 2.26646, 1.38079, 2.32323, 3.191309999999996, 2.453729999999997, 1.58782, 2.67585,
1.8763400000000001, 1.87877, 2.79094, 2.1139900000000003, 2.12367, 2.48676, 2.83600000000003,
2.090659999999997, 1.44395, 2.06367, 2.30919, 2.12466, 0.89991]

Mean absolute error:- 0.000251510997062665
Mean squared error:- 8.296427067681481e-08
Root mean squared error:- 0.00028803518999735917
r2 Score:- 0.999999712514573

At random state 525 the model performs very well

At random state 525

Training score is

0.9999997463667077

Predicted value is [1.21364193 2.0903043 0.98187414 2.37154116 2.84829093 2.08473061
1.34735547 1.57038918 1.87879195 2.23770236 2.44678917 2.20154522
1.86965926 1.26505377 1.88961518 2.63445659 1.95289322 3.10721426
2.3230853 1.69482288 2.20788912 2.06387199 1.68158397 1.61627454
1.38095856 2.18867757 1.85106096 2.24710913 2.04399961 2.22003135] and Actual value is [
1.21305, 2.090659999999997, 0.98195, 2.371190000000004, 2.84848, 2.08528, 1.34759, 1.57059,
1.87877, 2.23740999999997, 2.446490000000003, 2.20173, 1.869840000000002, 1.26462,
1.889309999999998, 2.6343, 1.95335, 3.107090000000004, 2.32323, 1.6944, 2.20857, 2.06367,
1.68135, 1.615829999999999, 1.38079, 2.18896, 1.851, 2.24743, 2.0438400000000003,
2.21978]

Mean absolute error:- 0.0002792263218738637
Mean squared error:- 1.0236944463407641e-07
Root mean squared error:- 0.00031995225367869565
r2 Score:- 0.9999995409116197

At random state 526 the model performs very well
At random state 526
Training score is
0.999999729868619
Predicted value is [2.63442862 2.02483731 2.24709604 2.82360133 2.232325 1.73796125
2.24184706 3.10709741 3.03483232 2.04402659 3.08881593 2.32377204
1.85997021 1.86604841 1.80040138 2.30871054 2.11815272 2.46516037
1.57163138 2.86707186 2.51750944 2.50959383 2.79067182 1.7613824
1.73832697 1.93107215 2.75451295 2.83594157 1.97547375 2.6195527] and Actual value is [
2.6343, 2.025, 2.24729, 2.82334, 2.2327, 1.7379900000000001, 2.24173, 3.10712, 3.035, 2.0
4384000000000003, 3.08854, 2.32407, 1.8604, 1.86565, 1.8010099999999998, 2.30919, 2.11773,
2.4653099999999997, 1.5714, 2.86712, 2.5173799999999997, 2.51011, 2.79094, 1.76145, 1.737
97, 1.9312900000000002, 2.75414, 2.8360000000000003, 1.9757, 2.61955]
Mean absolute error:- 0.00024009535849304578
Mean squared error:- 8.204601614205037e-08
Root mean squared error:- 0.0002864367576657199
r2 Score:- 0.9999995872564637

At random state 527 the model performs very well
At random state 527
Training score is
0.9999997376481772
Predicted value is [1.94272117 2.24181269 1.88500092 1.75330652 1.94938808 2.02489019
2.53918865 1.87872825 2.44690275 2.89319118 2.11001801 2.13142965
2.11813928 1.87968619 1.73836661 1.95068354 2.31977591 1.46177287
3.17756723 2.63437701 1.63811654 1.24121348 2.51759222 1.73790637
1.93109838 2.30866097 1.88528236 3.19111494 2.80728903 2.43861485] and Actual value is [
1.9429599999999998, 2.24173, 1.8854099999999998, 1.7536, 1.9493900000000002, 2.025, 2.539
42000000000002, 1.87877, 2.4464900000000003, 2.89319, 2.11032, 2.1309, 2.11773, 1.87995999
9999999, 1.73797, 1.95071, 2.31945, 1.46181, 3.17728, 2.6343, 1.63794, 1.24074, 2.51767,
1.7379900000000001, 1.9312900000000002, 2.30919, 1.8850099999999999, 3.1913099999999996,
2.8079099999999997, 2.43872]
Mean absolute error:- 0.0002404511158776712
Mean squared error:- 8.723845708346629e-08
Root mean squared error:- 0.00029536157008566005
r2 Score:- 0.9999995918740088

At random state 528 the model performs very well
At random state 528
Training score is
0.9999997471964989
Predicted value is [1.8441187 2.70216997 2.2322812 2.24195756 2.08471718 2.11349271
3.19104534 2.26426536 1.71926501 1.85988652 1.95252658 1.63326083
2.50963705 1.58819009 2.79884681 2.02481142 1.69487601 1.88960133
1.94271982 2.63447304 1.87960939 2.84823421 1.8852805 1.26492502
2.45190258 1.80032872 1.38097358 1.57033694 3.60178477 1.68420195] and Actual value is [
1.84408, 2.70201, 2.2327, 2.24173, 2.08528, 2.1139900000000003, 3.1913099999999996, 2.264
25, 1.7195599999999998, 1.8604, 1.9521, 1.6332799999999998, 2.51011, 1.58782, 2.79832, 2.
025, 1.6944, 1.8893099999999998, 1.9429599999999998, 2.6343, 1.8799599999999999, 2.84848,
1.8850099999999999, 1.26462, 2.4517599999999997, 1.8010099999999998, 1.38079, 1.57059, 3.
6021400000000003, 1.68435]
Mean absolute error:- 0.0003038020622802007
Mean squared error:- 1.1914444201613375e-07
Root mean squared error:- 0.00034517306096526967
r2 Score:- 0.9999995723651925

At random state 529 the model performs very well
At random state 529
Training score is
0.999999737894939
Predicted value is [0.67137945 2.24712 1.57031075 2.00076956 1.93108808 1.68428745
1.58826545 2.32306511 1.63317082 2.41451334 2.11352538 2.43247368
2.2377293 2.06390859 2.26649625 2.30869084 0.98167219 1.87659847
2.7661323 1.76141532 1.73835211 1.80041126 2.82360833 1.9584674
1.41716764 1.87966337 2.20142781 2.43860025 2.45189982 2.21999519] and Actual value is [
0.67108, 2.24743, 1.57059, 2.00073, 1.9312900000000002, 1.68435, 1.58782, 2.32323, 1.6332

799999999998, 2.4148400000000003, 2.1139900000000003, 2.43209, 2.2374099999999997, 2.06367, 2.26646, 2.30919, 0.98195, 1.8763400000000001, 2.76579, 1.76145, 1.73797, 1.8010099999999998, 2.82334, 1.95812, 1.41723, 1.8799599999999999, 2.20173, 2.43872, 2.4517599999999997, 2.21978]

Mean absolute error:- 0.00026087635605436996
Mean squared error:- 8.832035283237883e-08
Root mean squared error:- 0.0002971874035560371
r2 Score:- 0.99999588830431

At random state 530 the model performs very well

At random state 530

Training score is

0.999997310643397

Predicted value is [1.8696917 2.237724 2.7907159 2.02498932 2.43246075 2.44223489 2.11357388 1.57033175 3.17765196 2.50993834 1.80040016 1.75870474 2.32309278 1.4650675 2.22002209 1.69477948 1.85110236 2.11559617 1.92338234 3.26050351 2.46561627 1.57164447 1.24113436 1.93109972 1.59856341 3.08889481 1.34735793 2.06389751 2.31983198 1.96974196] and Actual value is [1.8698400000000002, 2.2374099999999997, 2.79094, 2.0251799999999998, 2.43209, 2.44191, 2.1139900000000003, 1.57059, 3.17728, 2.51009, 1.8010099999999998, 1.75873, 2.32323, 1.46494, 2.21978, 1.6944, 1.851, 2.1156900000000003, 1.92313, 3.26001, 2.4657, 1.5714, 1.24074, 1.9312900000000002, 1.5988799999999999, 3.08854, 1.34759, 2.06367, 2.31945, 1.9699400000000002]

Mean absolute error:- 0.0002619330024701124

Mean squared error:- 8.545021846923928e-08

Root mean squared error:- 0.00029231869332842756

r2 Score:- 0.99999674204598

At random state 531 the model performs very well

At random state 531

Training score is

0.999997234234291

Predicted value is [2.20147242 2.11813162 2.79061166 2.49202525 1.62260846 2.10992701 1.86438788 2.47495264 1.95076645 1.57035704 1.63818484 2.82361202 1.73830735 2.85764412 2.44841962 0.89944731 2.32130979 3.08890088 2.26647769 1.75334299 2.8073534 1.79312221 2.27547151 1.46188676 0.67145163 2.05094946 1.86613344 1.94942685 1.9529771 2.11566521] and Actual value is [2.20173, 2.11773, 2.79094, 2.4920400000000003, 1.62215, 2.11032, 1.86399, 2.4748900000000003, 1.95071, 1.57059, 1.63794, 2.82334, 1.73797, 2.85737, 2.44876, 0.89991, 2.3214200000000003, 3.08854, 2.26646, 1.7536, 2.8079099999999997, 1.79293, 2.27513, 1.46181, 0.67108, 2.05125, 1.86565, 1.9493900000000002, 1.95335, 2.1156900000000003]

Mean absolute error:- 0.00026793650529233215

Mean squared error:- 9.513370954736336e-08

Root mean squared error:- 0.0003084375294080851

r2 Score:- 0.999996715024853

At random state 532 the model performs very well

At random state 532

Training score is

0.999997415272969

Predicted value is [1.79314938 1.8003313 2.21997978 2.79873605 2.1237635 3.10712614 1.86433618 2.20790938 2.45188467 1.8788166 1.4279079 1.96940967 1.63816633 2.75449151 1.38097837 1.87965102 0.98177745 2.80742859 2.09022292 2.02494963 2.04398893 1.76141692 1.88502499 1.62254339 2.44220097 3.05123142 2.8670806 1.88952604 2.53918325 1.95288837] and Actual value is [1.79293, 1.8010099999999998, 2.21978, 2.79832, 2.12367, 3.10712, 1.86399, 2.20857, 2.4517599999999997, 1.87877, 1.42766, 1.9696099999999999, 1.63794, 2.75414, 1.38079, 1.8799599999999999, 0.98195, 2.8079099999999997, 2.0906599999999997, 2.0251799999999998, 2.043840000000003, 1.76145, 1.8854099999999998, 1.62215, 2.44191, 3.05137, 2.86712, 1.8893099999999998, 2.5394200000000002, 1.95335]

Mean absolute error:- 0.00026600721753491

Mean squared error:- 9.883261641121247e-08

Root mean squared error:- 0.0003143765519424317

r2 Score:- 0.999996115632708

At random state 533 the model performs very well
At random state 533
Training score is
0.9999997430908639
Predicted value is [2.11358461 2.53345638 1.8852481 1.95840789 2.80742388 2.24715526
1.86610978 1.95289323 2.23774341 2.02496093 1.59568011 1.76140611
1.86431131 2.53922301 2.43854124 2.00080004 3.26050227 3.10725979
1.63327994 2.04399809 1.93107476 2.7545372 0.98175409 2.74282583
1.73925019 2.20788829 1.59856575 2.02481444 1.63814571 2.31982796] and Actual value is [
2.1139900000000003, 2.5332, 1.8850099999999999, 1.95812, 2.8079099999999997, 2.24729, 1.8
6565, 1.95335, 2.2374099999999997, 2.0251799999999998, 1.59541, 1.76145, 1.86399, 2.53942
00000000002, 2.43872, 2.00073, 3.26001, 3.1070900000000004, 1.6332799999999998, 2.0438400
000000003, 1.9312900000000002, 2.75414, 0.98195, 2.74255, 1.7393299999999998, 2.20857, 1.
5988799999999999, 2.025, 1.63794, 2.31945]

Mean absolute error:- 0.00027027191413544853
Mean squared error:- 9.53754973426578e-08
Root mean squared error:- 0.0003088292365412605
r2 Score:- 0.999999588425071

At random state 534 the model performs very well
At random state 534
Training score is
0.9999997336018491
Predicted value is [2.43248338 2.8932149 2.51763298 2.53340859 1.87663853 2.1181178
2.5944043 2.06394238 1.92338998 1.24123108 2.24185372 1.26501757
1.94272416 2.12504607 2.85764094 2.20801214 1.46505955 1.41718247
2.02500644 1.73931523 2.00079827 2.26647435 3.10709664 2.24713673
2.30872302 1.85106471 1.63322216 2.44842593 2.20146047 2.79883521] and Actual value is [
2.43209, 2.89319, 2.51767, 2.5332, 1.8763400000000001, 2.11773, 2.5945, 2.06367, 1.92313,
1.24074, 2.24173, 1.26462, 1.942959999999998, 2.12466, 2.85737, 2.20857, 1.46494, 1.4172
3, 2.0251799999999998, 1.7393299999999998, 2.00073, 2.26646, 3.10712, 2.24729, 2.30919, 1
.851, 1.6332799999999998, 2.44876, 2.20173, 2.79832]

Mean absolute error:- 0.00022547884661655953
Mean squared error:- 7.818667271959921e-08
Root mean squared error:- 0.00027961879893812435
r2 Score:- 0.9999996367796002

At random state 535 the model performs very well
At random state 535
Training score is
0.9999997572203495
Predicted value is [1.86435959 2.12514699 2.51779252 2.82367037 3.17761203 2.41450527
1.8852788 2.06395799 2.21118384 3.08894581 2.20796285 2.32128722
2.75466965 1.85109657 1.62258746 3.03486524 2.11352285 2.02501552
2.63446331 1.95267093 1.85999246 1.84410982 2.27563795 1.95597635
2.79877944 3.10754002 2.32371029 1.57042735 1.88967733 2.04398813] and Actual value is [
1.86399, 2.12466, 2.51767, 2.82334, 3.17728, 2.4148400000000003, 1.8850099999999999, 2.06
367, 2.21126, 3.08854, 2.20857, 2.3214200000000003, 2.75414, 1.851, 1.62215, 3.035, 2.113
9900000000003, 2.0251799999999998, 2.6343, 1.9521, 1.8604, 1.84408, 2.27513, 1.9563700000
00002, 2.79832, 3.1070900000000004, 2.32407, 1.57059, 1.8893099999999998, 2.0438400000000
0003]

Mean absolute error:- 0.0003201827222830689
Mean squared error:- 1.2785723164703668e-07
Root mean squared error:- 0.00035757129589361153
r2 Score:- 0.9999993726962002

At random state 536 the model performs very well
At random state 536
Training score is
0.9999997362705951
Predicted value is [1.88962454 2.43248445 1.21368085 1.95599365 2.2015027 1.8788017
0.67143525 2.79081769 1.24125024 2.76614658 2.21123973 1.85114364
0.99849991 2.85761184 2.50989597 1.46509703 1.5716892 1.719245
2.00078804 1.8660828 2.118132 2.41448807 2.82363465 2.50954874
1.59583158 2.23235427 1.83357536 1.75881173 1.96964759 1.68434171] and Actual value is [

1.8893099999999998, 2.43209, 1.21305, 1.9563700000000002, 2.20173, 1.87877, 0.67108, 2.79094, 1.24074, 2.76579, 2.21126, 1.851, 0.99895, 2.85737, 2.51009, 1.46494, 1.5714, 1.719559999999998, 2.00073, 1.86565, 2.11773, 2.4148400000000003, 2.82334, 2.51011, 1.59541, 2.2327, 1.83302, 1.75873, 1.9699400000000002, 1.68435]

Mean absolute error:- 0.00029788194716782177
Mean squared error:- 1.159553816557531e-07
Root mean squared error:- 0.0003405222190338732
r2 Score:- 0.999995935281312

At random state 537 the model performs very well

At random state 537

Training score is

0.999997487830821

Predicted value is [1.46173698 3.08881295 2.11547305 1.86604455 1.21365881 1.85992891 1.75334051 1.92340973 2.76619958 2.4484902 1.83364318 2.02497935 2.05127414 2.06404142 1.87877652 1.59579442 2.79897987 1.95853703 1.85112757 1.97543769 1.63323534 2.82366643 2.26421298 1.79318815 1.84420558 1.34727535 2.59441548 2.43252388 1.8641677 1.7852593] and Actual value is [1.46181, 3.08854, 2.1156900000000003, 1.86565, 1.21305, 1.8604, 1.7536, 1.92313, 2.76579, 2.44876, 1.83302, 2.025179999999998, 2.05125, 2.06367, 1.87877, 1.59541, 2.79832, 1.95812, 1.851, 1.9757, 1.633279999999998, 2.82334, 2.26425, 1.79293, 1.84408, 1.34759, 2.5945, 2.43209, 1.86399, 1.78555]

Mean absolute error:- 0.0002808785713167783
Mean squared error:- 1.0911603401915924e-07
Root mean squared error:- 0.0003303271620971537
r2 Score:- 0.999994382032648

At random state 538 the model performs very well

At random state 538

Training score is

0.999997487363863

Predicted value is [2.67773491 0.98175635 2.08474529 2.45185138 3.0348397 1.95842363 2.46513112 2.61948971 1.88499838 3.10709953 2.02494229 2.53917781 1.95595447 2.11552811 1.86603244 1.78523407 1.83344747 1.71923684 1.73926531 2.79879327 2.48662909 2.3197759 2.0902784 2.21117656 2.20795875 2.1135236 3.08882891 2.50960498 3.10732885 1.6948343] and Actual value is [2.67782, 0.98195, 2.08528, 2.451759999999997, 3.035, 1.95812, 2.465309999999997, 2.61955, 1.885409999999998, 3.10712, 2.025179999999998, 2.5394200000000002, 1.95637000000000002, 2.1156900000000003, 1.86565, 1.78555, 1.83302, 1.719559999999998, 1.739329999999998, 2.79832, 2.48676, 2.31945, 2.090659999999997, 2.21126, 2.20857, 2.1139900000000003, 3.08854, 2.51011, 3.107090000000004, 1.6944]

Mean absolute error:- 0.00028502907215921893
Mean squared error:- 1.0630224375193644e-07
Root mean squared error:- 0.0003260402486686827
r2 Score:- 0.999995540697648

At random state 539 the model performs very well

At random state 539

Training score is

0.999997266369571

Predicted value is [2.11348958 2.46515516 3.26045215 2.20137747 2.24196624 2.86708774 1.21363469 2.51000317 1.9233383 2.04403375 2.45354337 2.51755717 3.19117456 2.89323373 1.79319197 1.95848463 1.85106373 2.08476808 1.75870064 2.41448305 3.08882658 2.85763019 1.99171285 2.30868779 0.98165968 2.79896628 2.24707894 2.49203607 1.73836737 1.85987442] and Actual value is [2.1139900000000003, 2.465309999999997, 3.26001, 2.20173, 2.24173, 2.86712, 1.21305, 2.51009, 1.92313, 2.0438400000000003, 2.453729999999997, 2.51767, 3.191309999999996, 2.89319, 1.79293, 1.95812, 1.851, 2.08528, 1.75873, 2.4148400000000003, 3.08854, 2.85737, 1.991720000000002, 2.30919, 0.98195, 2.79832, 2.24743, 2.4920400000000003, 1.73797, 1.8604]

Mean absolute error:- 0.00027099542037012
Mean squared error:- 1.0688670485316788e-07
Root mean squared error:- 0.00032693532212529116
r2 Score:- 0.999996197499095

At random state 540 the model performs very well
At random state 540
Training score is
0.9999997142857433
Predicted value is [1.94271028 3.05121546 2.53341658 2.47500375 2.61955192 2.85762839
2.59438975 2.76613175 2.188629 1.7930908 1.57033201 1.61619087
2.11351033 2.04398856 2.51751454 1.78520054 1.87872637 2.67778067
2.05107031 2.32132095 1.80040757 1.96971373 0.98169019 2.4468405
1.96944874 1.92337082 0.6544618 1.93110982 2.23229735 2.50990144] and Actual value is [
1.942959999999998, 3.05137, 2.5332, 2.4748900000000003, 2.61955, 2.85737, 2.5945, 2.7657
9, 2.18896, 1.79293, 1.57059, 1.6158299999999999, 2.1139900000000003, 2.0438400000000003,
2.517379999999997, 1.78555, 1.87877, 2.67782, 2.05125, 2.3214200000000003, 1.80100999999
9998, 1.9699400000000002, 0.98195, 2.4464900000000003, 1.9696099999999999, 1.92313, 0.65
42899999999999, 1.9312900000000002, 2.2327, 2.51009]

Mean absolute error:- 0.0002271922617438582
Mean squared error:- 6.866899886234125e-08
Root mean squared error:- 0.00026204770340978236
r2 Score:- 0.9999997400069525

At random state 541 the model performs very well
At random state 541
Training score is
0.9999997475426649
Predicted value is [0.89935416 2.51751496 1.8849946 2.7988152 2.11001099 2.08476941
2.23227996 0.6544493 1.68426371 1.88527194 1.4618417 1.8334085
1.87663766 1.57031955 2.32375597 2.24715877 2.47502865 1.6483283
1.88953663 2.23769119 2.11812555 1.42779446 2.09027348 2.20795157
2.75455776 2.2642176 1.62253358 3.10709522 1.93110186 2.45185977] and Actual value is [
0.89991, 2.517379999999997, 1.885409999999998, 2.79832, 2.11032, 2.08528, 2.2327, 0.654
2899999999999, 1.68435, 1.885009999999999, 1.46181, 1.83302, 1.8763400000000001, 1.57059
, 2.32407, 2.24743, 2.4748900000000003, 1.6488, 1.889309999999998, 2.237409999999997, 2
.11773, 1.42766, 2.090659999999997, 2.20857, 2.75414, 2.26425, 1.62215, 3.10712, 1.93129
00000000002, 2.451759999999997]

Mean absolute error:- 0.0002907239223152206
Mean squared error:- 1.1040327288665723e-07
Root mean squared error:- 0.0003322698795958749
r2 Score:- 0.9999995771506374

At random state 542 the model performs very well
At random state 542
Training score is
0.9999997381828261
Predicted value is [3.03486353 1.75869305 3.1776329 2.84831169 2.20144129 2.00076528
2.31987091 3.08890759 1.63319532 2.75455417 2.79884777 1.57034598
2.32311894 1.95596269 1.75334002 2.08476678 2.43856946 1.73831593
2.06393505 1.86433138 2.45190183 2.11001174 1.58825205 2.24187685
2.44219965 2.24634581 2.09980236 1.62259282 2.49201264 2.67780292] and Actual value is [
3.035, 1.75873, 3.17728, 2.84848, 2.20173, 2.00073, 2.31945, 3.08854, 1.633279999999998,
2.75414, 2.79832, 1.57059, 2.32323, 1.9563700000000002, 1.7536, 2.08528, 2.43872, 1.73797
, 2.06367, 1.86399, 2.451759999999997, 2.11032, 1.58782, 2.24173, 2.44191, 2.246390000000
00003, 2.10017, 1.62215, 2.4920400000000003, 2.67782]

Mean absolute error:- 0.00025633292573727927
Mean squared error:- 8.888016381985952e-08
Root mean squared error:- 0.0002981277642552929
r2 Score:- 0.9999995757393413

At random state 543 the model performs very well
At random state 543
Training score is
0.9999997221564167
Predicted value is [2.47495386 2.06398179 1.38097714 2.12380385 2.61952668 2.02490721
2.24188431 2.24710761 3.17764734 1.71923593 1.96940978 1.86002314
1.44417927 2.48658492 1.85110969 2.32311977 2.89319489 2.70220734
1.92336692 1.75334328 2.27409916 2.75457791 1.62259345 1.78526732
1.6162336 2.83599818 2.31983493 1.58826697 1.41710708 1.94270151] and Actual value is [
2.4748900000000003, 2.06367, 1.38079, 2.12367, 2.61955, 2.025, 2.24173, 2.24729, 3.17728,

1.7195599999999998, 1.969609999999999, 1.8604, 1.44395, 2.48676, 1.851, 2.32323, 2.89319 , 2.70201, 1.92313, 1.7536, 2.27394, 2.75414, 1.62215, 1.78555, 1.6158299999999999, 2.836 000000000003, 2.31945, 1.58782, 1.41723, 1.942959999999998]

Mean absolute error:- 0.00022266828131358717
Mean squared error:- 6.65795416163855e-08
Root mean squared error:- 0.00025803011765370624
r2 Score:- 0.999996949556786

At random state 544 the model performs very well

At random state 544

Training score is

0.999997183424054

Predicted value is [1.59888278 2.48662122 1.62251762 1.2135669 2.32308788 2.517522 0.89933133 0.99831988 2.11354225 1.34726554 2.23770947 2.26426049 1.78523768 2.82369664 3.26050775 1.8696309 1.71916471 2.24709701 1.63318512 2.63448862 1.86605227 2.76619469 2.12375119 2.24708272 3.10732806 3.1911989 2.44848643 2.24192541 2.21122272 2.67625886] and Actual value is [1.59927, 2.48676, 1.62215, 1.21305, 2.32323, 2.5173799999999997, 0.89991, 0.99895, 2.1139 900000000003, 1.34759, 2.2374099999999997, 2.26425, 1.78555, 2.82334, 3.26001, 1.86984000 00000002, 1.7195599999999998, 2.24743, 1.6332799999999998, 2.6343, 1.86565, 2.76579, 2.12 367, 2.24729, 3.1070900000000004, 3.1913099999999996, 2.44876, 2.24173, 2.21126, 2.67585]

Mean absolute error:- 0.000291096240052439

Mean squared error:- 1.0976733985320806e-07

Root mean squared error:- 0.0003313115450044083

r2 Score:- 0.999996931960123

At random state 545 the model performs very well

At random state 545

Training score is

0.999997248186138

Predicted value is [1.88498417 2.47500997 1.63327955 1.89859655 3.08878227 2.02484731 2.44847339 2.50987162 3.05121494 2.24183053 1.97545546 1.87662938 1.85109844 2.63442669 1.86605513 1.64833878 2.32306285 1.46507123 2.70208419 2.49205894 1.88533582 2.83594439 2.11355351 2.48657242 1.83345113 1.58829203 2.00082128 1.59585025 2.11556784 3.19110366] and Actual value is [1.885409999999998, 2.4748900000000003, 1.633279999999998, 1.89894, 3.08854, 2.025, 2.44 876, 2.51009, 3.05137, 2.24173, 1.9757, 1.8763400000000001, 1.851, 2.6343, 1.86565, 1.648 8, 2.32323, 1.46494, 2.70201, 2.4920400000000003, 1.8850099999999999, 2.836000000000000003, 2.1139900000000003, 2.48676, 1.83302, 1.58782, 2.00073, 1.59541, 2.1156900000000003, 3.19 1309999999996]

Mean absolute error:- 0.00022769410144628152

Mean squared error:- 7.200393574625375e-08

Root mean squared error:- 0.00026833549102989293

r2 Score:- 0.999996707390426

At random state 546 the model performs very well

At random state 546

Training score is

0.999997450433028

Predicted value is [1.63316275 0.89935844 1.93109734 1.88956485 1.57033039 1.94268824 1.73926042 3.05123146 1.78518973 1.86966413 1.75870768 1.75326516 2.44843576 1.79305798 1.87963918 2.44685113 1.71922776 2.11350884 1.63806325 2.1313718 3.26047553 2.24185415 2.50985278 2.45362873 2.75457243 1.88497459 2.41450987 1.95245445 2.30869051 2.67776584] and Actual value is [1.633279999999998, 0.89991, 1.931290000000002, 1.889309999999998, 1.57059, 1.942959999 999998, 1.739329999999998, 3.05137, 1.78555, 1.869840000000002, 1.75873, 1.7536, 2.448 76, 1.79293, 1.879959999999999, 2.4464900000000003, 1.719559999999998, 2.11399000000000 03, 1.63794, 2.1309, 3.26001, 2.24173, 2.51009, 2.453729999999997, 2.75414, 1.885409999 999998, 2.4148400000000003, 1.9521, 2.30919, 2.67782]

Mean absolute error:- 0.00027753149477437086

Mean squared error:- 9.851533143425345e-08

Root mean squared error:- 0.000313871520584862

r2 Score:- 0.999995669540916

At random state 547 the model performs very well
At random state 547
Training score is
0.9999997397897761
Predicted value is [1.85993008 1.83344272 2.18859945 2.79077367 2.02492566 2.67617577
3.10734858 1.78520339 2.11005538 2.86701079 1.73924577 2.12368687
2.41448375 1.88498532 1.95070088 2.45364485 2.21118283 1.68156012
2.50991944 2.7427823 1.86966189 2.08475598 1.79308442 0.89932909
1.75868078 2.3715637 1.95592581 2.05114353 2.51769243 1.85105095] and Actual value is [
1.8604, 1.83302, 2.18896, 2.79094, 2.025179999999998, 2.67585, 3.107090000000004, 1.785
55, 2.11032, 2.86712, 1.739329999999998, 2.12367, 2.4148400000000003, 1.885409999999998
, 1.95071, 2.453729999999997, 2.21126, 1.68135, 2.51009, 2.74255, 1.869840000000002, 2.
08528, 1.79293, 0.89991, 1.75873, 2.371190000000004, 1.956370000000002, 2.05125, 2.5176
7, 1.851]

Mean absolute error:- 0.00023765118034531075
Mean squared error:- 8.245093806264767e-08
Root mean squared error:- 0.00028714271375510764
r2 Score:- 0.9999995765077141

At random state 548 the model performs very well
At random state 548
Training score is
0.9999997288444815
Predicted value is [2.44844028 2.11351768 2.00077413 2.44215023 2.12499168 2.5391784
1.44414198 2.02492188 3.26045736 2.67615529 2.37160274 2.08474007
1.80033633 2.32376297 1.62253625 2.82363897 1.57030423 3.19110151
0.65448998 2.51753627 2.59436567 1.78522612 1.34731825 1.99177387
1.88501711 2.02479564 3.03482587 1.86606317 2.20145098 2.83594348] and Actual value is [
2.44876, 2.1139900000000003, 2.00073, 2.44191, 2.12466, 2.539420000000002, 1.44395, 2.02
51799999999998, 3.26001, 2.67585, 2.371190000000004, 2.08528, 1.801009999999998, 2.3240
7, 1.62215, 2.82334, 1.57059, 3.191309999999996, 0.654289999999999, 2.517379999999997,
2.5945, 1.78555, 1.34759, 1.991720000000002, 1.885409999999998, 2.025, 3.035, 1.86565,
2.20173, 2.836000000000003]

Mean absolute error:- 0.00028751462586531866
Mean squared error:- 1.022050130239914e-07
Root mean squared error:- 0.0003196951876772489
r2 Score:- 0.9999996767088648

At random state 549 the model performs very well
At random state 549
Training score is
0.9999997119953337
Predicted value is [2.5175219 2.89319978 1.87881167 1.58830531 1.62258069 2.46560116
2.23778079 1.8661542 1.57169749 2.70222594 1.44422041 0.99841852
2.86707825 1.46171185 3.17770859 1.61627983 2.67784701 3.26051837
1.75339538 2.46516766 2.24708518 2.12384012 2.82368872 1.88502479
2.43850856 1.73830043 3.19118648 2.23244416 2.31984252 2.00077914] and Actual value is [
2.517379999999997, 2.89319, 1.87877, 1.58782, 1.62215, 2.4657, 2.237409999999997, 1.865
65, 1.5714, 2.70201, 1.44395, 0.99895, 2.86712, 1.46181, 3.17728, 1.615829999999999, 2.6
7782, 3.26001, 1.7536, 2.465309999999997, 2.24743, 2.12367, 2.82334, 1.885409999999998,
2.43872, 1.73797, 3.191309999999996, 2.2327, 2.31945, 2.00073]

Mean absolute error:- 0.0002636985764254344
Mean squared error:- 9.542798392612379e-08
Root mean squared error:- 0.00030891420156108686
r2 Score:- 0.9999997122698201

At random state 550 the model performs very well
At random state 550
Training score is
0.9999997280151193
Predicted value is [2.7988484 1.86424703 2.44841781 1.75872503 2.85763757 3.10717803
3.10708932 1.79318147 2.04404062 2.08476841 2.76611057 1.75336381
2.53339169 1.88500745 1.78527093 2.05110825 1.73798622 2.5943811
2.48667491 1.57169383 2.20145675 1.21365551 2.37154869 1.58830353
2.50994008 1.86611183 2.11556149 2.51759253 3.60178831 2.50959676] and Actual value is [
2.79832, 1.86399, 2.44876, 1.75873, 2.85737, 3.107090000000004, 3.10712, 1.79293, 2.0438

400000000003, 2.08528, 2.76579, 1.7536, 2.5332, 1.8854099999999998, 1.78555, 2.05125, 1.7
3799000000000001, 2.5945, 2.48676, 1.5714, 2.20173, 1.21305, 2.3711900000000004, 1.58782,
2.51009, 1.86565, 2.1156900000000003, 2.51767, 3.6021400000000003, 2.51011]

Mean absolute error:- 0.0002653198440441651

Mean squared error:- 9.73355243030745e-08

Root mean squared error:- 0.00031198641685668707

r2 Score:- 0.9999996547218838

At random state 551 the model performs very well

At random state 551

Training score is

0.9999997307766527

Predicted value is [2.31975262 2.76615777 1.71929152 1.88533961 2.24711897 3.19114139
2.79881901 1.34731347 1.68431292 2.30873135 3.10710984 2.67776437
1.59898807 1.59578423 2.02486076 1.62257577 2.51756215 2.53341762
2.11009734 2.11815555 2.12374912 2.37162717 2.24629924 1.79313827
1.92339634 1.38094586 1.87663907 2.61960038 1.96975157 2.44683811] and Actual value is [
2.31945, 2.76579, 1.7195599999999998, 1.8850099999999999, 2.24729, 3.1913099999999996, 2.
79832, 1.34759, 1.68435, 2.30919, 3.10712, 2.67782, 1.59927, 1.59541, 2.025, 1.62215, 2.5
1737999999999997, 2.5332, 2.11032, 2.11773, 2.12367, 2.3711900000000004, 2.2463900000000000
3, 1.79293, 1.92313, 1.38079, 1.8763400000000001, 2.61955, 1.9699400000000002, 2.44649000
00000003]

Mean absolute error:- 0.00024459381573057974

Mean squared error:- 7.766438296527975e-08

Root mean squared error:- 0.0002786833022720948

r2 Score:- 0.999999651575562

At random state 552 the model performs very well

At random state 552

Training score is

0.9999997305456411

Predicted value is [2.11555474 1.68160654 1.69477371 2.24711886 1.64835053 1.75876437
2.21124877 2.50956254 2.30874041 2.27541906 2.1314114 2.45184242
2.85762355 1.9427606 0.98176441 2.63448471 1.26499147 1.87883666
2.79884692 1.42788932 1.88955807 1.59899918 2.11816461 0.67140291
1.95852117 1.57035982 2.53924328 1.59580913 2.89319911 1.86608094] and Actual value is [
2.1156900000000003, 1.68135, 1.6944, 2.24729, 1.6488, 1.75873, 2.21126, 2.51011, 2.30919,
2.27513, 2.1309, 2.4517599999999997, 2.85737, 1.9429599999999998, 0.98195, 2.6343, 1.2646
2, 1.87877, 2.79832, 1.42766, 1.8893099999999998, 1.59927, 2.11773, 0.67108, 1.95812, 1.5
7059, 2.539420000000002, 1.59541, 2.89319, 1.86565]

Mean absolute error:- 0.0002750974145068197

Mean squared error:- 9.912208849739192e-08

Root mean squared error:- 0.00031483660603143324

r2 Score:- 0.9999996394491454

At random state 553 the model performs very well

At random state 553

Training score is

0.9999997548078206

Predicted value is [1.46176437 2.20787327 1.8510653 2.79871888 2.53924468 1.86611244
0.9818268 1.96967863 2.12510679 2.2417701 1.95075428 1.61624631
1.80042344 2.04400934 1.88960822 2.53342028 2.10993788 2.32310068
1.62255612 1.694831 2.51775391 3.26046245 2.7021507 2.50961418
3.05117657 1.9492982 1.59576915 1.71924005 1.88503162 2.26644396] and Actual value is [
1.46181, 2.20857, 1.851, 2.79832, 2.539420000000002, 1.86565, 0.98195, 1.969940000000000
2, 2.12466, 2.24173, 1.95071, 1.615829999999999, 1.801009999999998, 2.043840000000003,
1.8893099999999998, 2.5332, 2.11032, 2.32323, 1.62215, 1.6944, 2.51767, 3.26001, 2.70201,
2.51011, 3.05137, 1.949390000000002, 1.59541, 1.719559999999998, 1.8854099999999998, 2.
26646]

Mean absolute error:- 0.0002776981473532114

Mean squared error:- 1.0923703959152703e-07

Root mean squared error:- 0.0003305102715370992

r2 Score:- 0.99999953048731

At random state 554 the model performs very well
At random state 554
Training score is
0.9999997606051065
Predicted value is [2.67616656 1.8985636 2.11354185 2.41445922 1.46506883 1.69483771
2.70213098 2.5095978 2.27545497 0.98175872 2.44847801 2.08475799
2.31980282 2.51743004 1.97544688 2.09026458 2.11552793 2.67773191
2.24707584 2.46556115 2.24705278 1.88957392 1.88499868 2.32306793
2.74277986 2.11813574 2.02497095 1.44417824 2.0639309 1.92338186] and Actual value is [
2.67585, 1.89894, 2.1139900000000003, 2.4148400000000003, 1.46494, 1.6944, 2.70201, 2.510
11, 2.27513, 0.98195, 2.44876, 2.08528, 2.31945, 2.51737999999997, 1.9757, 2.0906599999
999997, 2.1156900000000003, 2.67782, 2.24729, 2.4657, 2.24743, 1.889309999999998, 1.8854
09999999998, 2.32323, 2.74255, 2.11773, 2.025179999999998, 1.44395, 2.06367, 1.92313]

Mean absolute error:- 0.00028322155807983804
Mean squared error:- 9.55287921699236e-08
Root mean squared error:- 0.0003090773239335484
r2 Score:- 0.9999993881515752

At random state 555 the model performs very well
At random state 555
Training score is
0.9999997346481307
Predicted value is [1.94272187 2.67618615 2.48662922 0.89934196 2.13137928 2.85765003
2.11813188 1.61618136 1.42784784 2.49211417 2.23775774 2.11355525
2.50994422 1.7379972 2.53921062 1.63813579 3.08887063 2.20147919
1.9584398 1.80033756 2.83597799 2.45363083 2.23234795 1.71927808
1.68152276 1.57029471 1.87660966 3.2605047 1.75865173 2.8482933] and Actual value is [
1.942959999999998, 2.67585, 2.48676, 0.89991, 2.1309, 2.85737, 2.11773, 1.61582999999999
99, 1.42766, 2.4920400000000003, 2.237409999999997, 2.1139900000000003, 2.51009, 1.73799
0000000001, 2.539420000000002, 1.63794, 3.08854, 2.20173, 1.95812, 1.801009999999998,
2.836000000000003, 2.453729999999997, 2.2327, 1.719559999999998, 1.68135, 1.57059, 1.8
763400000000001, 3.26001, 1.75873, 2.84848]

Mean absolute error:- 0.00027381679922133063
Mean squared error:- 9.908805868497088e-08
Root mean squared error:- 0.0003147825577838945
r2 Score:- 0.999999647898236

At random state 556 the model performs very well
At random state 556
Training score is
0.9999997240913603
Predicted value is [2.32376898 3.60180695 2.79885246 1.64835619 2.8482381 2.00080458
2.02488312 1.63322602 3.17753994 1.73796568 2.12504724 2.70210138
2.67775954 2.23231294 1.41720442 1.93115152 2.44842425 2.06394093
1.68159602 1.444194 1.86608342 2.24711876 1.46508276 2.80738327
1.83347551 1.8642109 1.76143222 2.1314019 1.9696618 2.32130742] and Actual value is [
2.32407, 3.6021400000000003, 2.79832, 1.6488, 2.84848, 2.00073, 2.025, 1.633279999999998
, 3.17728, 1.737990000000001, 2.12466, 2.70201, 2.67782, 2.2327, 1.41723, 1.931290000000
002, 2.44876, 2.06367, 1.68135, 1.44395, 1.86565, 2.24729, 1.46494, 2.807909999999997,
1.83302, 1.86399, 1.76145, 2.1309, 1.9699400000000002, 2.3214200000000003]

Mean absolute error:- 0.0002476613184054936
Mean squared error:- 8.607313092686431e-08
Root mean squared error:- 0.0002933822266717333
r2 Score:- 0.9999996852503151

At random state 557 the model performs very well
At random state 557
Training score is
0.9999997194012177
Predicted value is [1.94933439 1.93114573 2.08476833 2.274066 2.83592838 2.84823938
2.51770649 2.26646658 2.22002239 2.53920832 1.86608645 3.19106611
1.76147593 1.21363774 1.59578999 2.89317078 1.86969849 3.10724654
1.62257947 1.88959761 1.83346878 1.63332187 3.03482684 2.09029303
1.8788174 2.12374581 2.43853274 2.23770797 2.23234552 1.44421915] and Actual value is [
1.9493900000000002, 1.9312900000000002, 2.08528, 2.27394, 2.836000000000003, 2.84848, 2.
51767, 2.26646, 2.21978, 2.5394200000000002, 1.86565, 3.191309999999996, 1.76145, 1.2130

5, 1.59541, 2.89319, 1.8698400000000002, 3.1070900000000004, 1.62215, 1.8893099999999998, 1.83302, 1.6332799999999998, 3.035, 2.0906599999999997, 1.87877, 2.12367, 2.43872, 2.2374 099999999997, 2.2327, 1.44395]

Mean absolute error:- 0.0002206048008522421

Mean squared error:- 7.399479359457054e-08

Root mean squared error:- 0.00027201984044288117

r2 Score:- 0.9999997064783125

At random state 558 the model performs very well

At random state 558

Training score is

0.9999997325004341

Predicted value is [1.5882979 3.0511918 2.44690767 2.18865101 3.60179277 2.05099831

2.10993565 1.570372 2.32373532 1.95074865 2.26640558 2.30872742

1.8643071 2.83596438 2.86707697 1.9311134 1.84412495 2.46555116

1.79314202 2.08480647 2.75456045 2.00081788 2.44221785 2.24706439

1.95249003 1.88500916 1.24120188 3.10712642 2.11815014 1.99178204] and Actual value is [

1.58782, 3.05137, 2.4464900000000003, 2.18896, 3.6021400000000003, 2.05125, 2.11032, 1.57059, 2.32407, 1.95071, 2.26646, 2.30919, 1.86399, 2.8360000000000003, 2.86712, 1.93129000 00000002, 1.84408, 2.4657, 1.79293, 2.08528, 2.75414, 2.00073, 2.44191, 2.24743, 1.9521, 1.885409999999998, 1.24074, 3.10712, 2.11773, 1.9917200000000002]

Mean absolute error:- 0.0002616390397032283

Mean squared error:- 9.291220641477275e-08

Root mean squared error:- 0.0003048150363987524

r2 Score:- 0.9999996229488664

At random state 559 the model performs very well

At random state 559

Training score is

0.9999997271076658

Predicted value is [2.13140101 0.98167521 1.84415005 1.7613433 2.4422463 2.32128993

1.92340936 2.53921309 2.49198794 2.84820927 1.83349597 1.4171688

1.62256369 2.4517888 1.95853499 2.21120911 2.4865875 2.50989918

2.46550171 2.41446264 1.88493368 1.96964445 3.19111001 2.26417127

1.57033537 2.43857207 2.6195088 1.64828859 1.73793408 1.8796854] and Actual value is [

2.1309, 0.98195, 1.84408, 1.76145, 2.44191, 2.3214200000000003, 1.92313, 2.5394200000000002, 2.4920400000000003, 2.84848, 1.83302, 1.41723, 1.62215, 2.4517599999999997, 1.95812, 2.21126, 2.48676, 2.51009, 2.4657, 2.4148400000000003, 1.885409999999998, 1.9699400000000002, 3.191309999999996, 2.26425, 1.57059, 2.43872, 2.61955, 1.6488, 1.7379900000000001, 1.87995999999999]

Mean absolute error:- 0.00023162599629732438

Mean squared error:- 7.611852209765219e-08

Root mean squared error:- 0.00027589585371594875

r2 Score:- 0.9999996382247927

At random state 560 the model performs very well

At random state 560

Training score is

0.999999716877031

Predicted value is [3.05122479 1.59580491 2.74282256 3.03490738 2.20154887 2.02496199

2.0440415 2.75462614 1.57160589 1.73797941 3.10731693 1.97541943

2.43246953 1.95596248 2.89322753 2.43857173 2.70212359 2.30877575

1.78520286 2.12512691 2.08479111 3.10714259 1.95249068 1.26499581

3.2604935 1.63333233 1.95295883 2.85765669 1.96965842 1.99181108] and Actual value is [

3.05137, 1.59541, 2.74255, 3.035, 2.20173, 2.025179999999998, 2.043840000000003, 2.75414, 1.5714, 1.737990000000001, 3.107090000000004, 1.9757, 2.43209, 1.956370000000002, 2.89319, 2.43872, 2.70201, 2.30919, 1.78555, 2.12466, 2.08528, 3.10712, 1.9521, 1.26462, 3.26001, 1.633279999999998, 1.95335, 2.85737, 1.9699400000000002, 1.9917200000000002]

Mean absolute error:- 0.0002631709013130849

Mean squared error:- 9.130385180598955e-08

Root mean squared error:- 0.00030216527233616633

r2 Score:- 0.999999681726418

At random state 561 the model performs very well

At random state 561
Training score is
0.99999969447513
Predicted value is [3.26045103 1.87670503 2.53918905 2.18867879 2.10993696 0.67146363
2.47503259 1.58831812 0.65453277 1.4619448 2.44214706 1.9234115
2.00081739 1.88961875 2.79881113 2.09978981 1.21364659 2.27416191
2.26421543 2.67781706 2.05109233 2.49201327 3.08884892 2.53345227
1.8441335 2.86697865 2.1135091 1.86431228 1.75871151 3.03483528] and Actual value is [
3.26001, 1.8763400000000001, 2.5394200000000002, 2.18896, 2.11032, 0.67108, 2.474890000000
0003, 1.58782, 0.6542899999999999, 1.46181, 2.44191, 1.92313, 2.00073, 1.8893099999999999
8, 2.79832, 2.10017, 1.21305, 2.27394, 2.26425, 2.67782, 2.05125, 2.4920400000000003, 3.0
8854, 2.5332, 1.84408, 2.86712, 2.1139900000000003, 1.86399, 1.75873, 3.035]

Mean absolute error:- 0.0002557333801018487

Mean squared error:- 9.000746552492433e-08

Root mean squared error:- 0.0003000124422835232

r2 Score:- 0.999999762951907

At random state 562 the model performs very well

At random state 562

Training score is

0.9999997121013604

Predicted value is [2.26415133 1.92342426 2.61948299 0.65452447 1.87881276 1.95844961
1.75340485 2.82366147 2.6344782 2.8931559 1.88959249 1.75875924
2.41449023 1.94931654 1.21368204 2.43849888 3.10707757 2.21123726
2.13136806 3.19112579 2.04404041 2.08474725 2.46510084 1.68161918
1.96962807 1.2650624 1.8850098 2.45366862 2.32305117 2.11001208] and Actual value is [
2.26425, 1.92313, 2.61955, 0.6542899999999999, 1.87877, 1.95812, 1.7536, 2.82334, 2.6343,
2.89319, 1.8893099999999998, 1.75873, 2.4148400000000003, 1.9493900000000002, 1.21305, 2.
43872, 3.10712, 2.21126, 2.1309, 3.1913099999999996, 2.0438400000000003, 2.08528, 2.46530
9999999997, 1.68135, 1.9699400000000002, 1.26462, 1.8854099999999998, 2.4537299999999997
, 2.32323, 2.11032]

Mean absolute error:- 0.0002338471621456802

Mean squared error:- 7.922101670567702e-08

Root mean squared error:- 0.0002814622829184703

r2 Score:- 0.9999997256615867

At random state 563 the model performs very well

At random state 563

Training score is

0.9999997085385568

Predicted value is [1.99177918 3.08888522 1.41714661 1.46505271 0.99844803 2.08478433
2.04404141 2.00077819 1.73829572 1.95247888 2.44687377 1.2649659
1.96969029 2.70217294 1.57165512 2.1135467 2.12505615 2.4651348
1.76144339 2.45365937 1.64838633 1.85110117 2.31980425 3.19116236
1.59858332 0.6544199 2.85766177 1.75333197 2.79883324 2.46557331] and Actual value is [
1.9917200000000002, 3.08854, 1.41723, 1.46494, 0.99895, 2.08528, 2.0438400000000003, 2.00
073, 1.73797, 1.9521, 2.446490000000003, 1.26462, 1.9699400000000002, 2.70201, 1.5714, 2
.1139900000000003, 2.12466, 2.465309999999997, 1.76145, 2.453729999999997, 1.6488, 1.85
1, 2.31945, 3.191309999999996, 1.5988799999999999, 0.6542899999999999, 2.85737, 1.7536,
2.79832, 2.4657]

Mean absolute error:- 0.00025615740171917775

Mean squared error:- 8.70866599382501e-08

Root mean squared error:- 0.0002951044898646073

r2 Score:- 0.9999997409719447

At random state 564 the model performs very well

At random state 564

Training score is

0.9999997293851135

Predicted value is [2.20144118 1.95075419 1.85993575 1.44424645 2.46516649 2.50956313
2.84820243 2.44221738 2.45355547 2.61955428 2.13138642 2.59431927
2.23778993 3.10703646 1.76142245 0.67145935 1.68429042 3.19105503
2.32300129 1.57029323 1.80034982 2.21120271 2.26649431 2.24625507
2.49207958 1.21364354 1.62255622 1.73836421 1.89851392 2.24706961] and Actual value is [
2.20173, 1.95071, 1.8604, 1.44395, 2.46530999999997, 2.51011, 2.84848, 2.44191, 2.45372
9999999997, 2.61955, 2.1309, 2.5945, 2.237409999999997, 3.10712, 1.76145, 0.67108, 1.68

435, 3.1913099999999996, 2.32323, 1.57059, 1.801009999999998, 2.21126, 2.26646, 2.246390
0000000003, 2.4920400000000003, 1.21305, 1.62215, 1.73797, 1.89894, 2.24729]

Mean absolute error:- 0.0002630693134575979

Mean squared error:- 1.0158376751765687e-07

Root mean squared error:- 0.00031872208507986526

r2 Score:- 0.9999996420767323

At random state 565 the model performs very well

At random state 565

Training score is

0.999997441748008

Predicted value is [1.75334929 1.42785188 2.67775777 2.61953284 2.02485861 1.73834751
1.6162122 2.41451324 1.99176958 2.43245155 2.74278502 1.68429177
2.26424837 1.57164221 1.80041981 2.23232659 1.86428281 1.75870714
2.371572 2.20144897 1.26498363 2.47499308 2.11004701 2.67618077
3.10726559 2.30872835 1.83341987 1.4441744 1.97550502 2.44843517] and Actual value is [
1.7536, 1.42766, 2.67782, 2.61955, 2.025, 1.73797, 1.6158299999999999, 2.4148400000000003
, 1.9917200000000002, 2.43209, 2.74255, 1.68435, 2.26425, 1.5714, 1.801009999999998, 2.2
327, 1.86399, 1.75873, 2.3711900000000004, 2.20173, 1.26462, 2.4748900000000003, 2.11032,
2.67585, 3.1070900000000004, 2.30919, 1.83302, 1.44395, 1.9757, 2.44876]

Mean absolute error:- 0.0002497378844083039

Mean squared error:- 8.310316675150192e-08

Root mean squared error:- 0.0002882761987252883

r2 Score:- 0.999995766593881

At random state 566 the model performs very well

At random state 566

Training score is

0.999997310796106

Predicted value is [2.0902309 3.26048388 2.47498489 1.88526643 2.6777462 2.20150855
2.46519142 2.85762811 1.87966615 1.68153842 1.88500115 2.63446375
2.37161715 2.82364748 1.73799822 2.06382543 2.86712017 2.11816794
1.80034499 2.59438142 1.92339643 2.79068051 2.02493271 1.57162067
2.51754537 1.61617625 2.84826296 1.42789833 2.24185897 1.9694446] and Actual value is [
2.0906599999999997, 3.26001, 2.474890000000003, 1.8850099999999999, 2.67782, 2.20173, 2.
4653099999999997, 2.85737, 1.8799599999999999, 1.68135, 1.885409999999998, 2.6343, 2.371
1900000000004, 2.82334, 1.737990000000001, 2.06367, 2.86712, 2.11773, 1.801009999999998
, 2.5945, 1.92313, 2.79094, 2.025179999999998, 1.5714, 2.5173799999999997, 1.61582999999
99999, 2.84848, 1.42766, 2.24173, 1.9696099999999999]

Mean absolute error:- 0.00024521145121214616

Mean squared error:- 8.090212056935316e-08

Root mean squared error:- 0.00028443298080453534

r2 Score:- 0.999996222863613

At random state 567 the model performs very well

At random state 567

Training score is

0.999997023491695

Predicted value is [2.31975748 2.2471419 3.05121985 3.08883236 1.88525764 1.87662998
2.47501648 1.88501445 2.83597047 3.17762039 2.1135413 2.85763893
1.92339348 2.18863626 1.88955991 2.02493941 2.45367863 1.34730452
1.99177831 1.64837476 2.866994 2.79076305 1.95292542 2.82365882
1.63327918 1.58826153 1.89856308 2.02481248 3.60188452 2.46518087] and Actual value is [
2.31945, 2.24729, 3.05137, 3.08854, 1.8850099999999999, 1.8763400000000001, 2.47489000000
0003, 1.885409999999998, 2.8360000000000003, 3.17728, 2.1139900000000003, 2.85737, 1.92
313, 2.18896, 1.889309999999998, 2.025179999999998, 2.453729999999997, 1.34759, 1.9917
200000000002, 1.6488, 2.86712, 2.79094, 1.95335, 2.82334, 1.633279999999998, 1.58782, 1.
89894, 2.025, 3.6021400000000003, 2.4653099999999997]

Mean absolute error:- 0.00024603832321487367

Mean squared error:- 7.596378832708776e-08

Root mean squared error:- 0.000275615290445011

r2 Score:- 0.999997428398237

At random state 568 the model performs very well

At random state 568
Training score is
0.9999997507864564
Predicted value is [2.32131524 2.86713102 2.10998594 2.02485841 1.89855866 2.76615646
2.05108282 1.42784977 2.46555303 2.3087528 3.26051356 1.64831089
2.5099662 1.88497988 2.6195464 1.95248045 2.323076 1.571648
2.82365532 2.13140736 1.79316299 1.97542183 1.59853034 1.68428707
2.79883079 2.27545721 1.95076657 2.32377009 2.67614257 1.58827505] and Actual value is [
2.3214200000000003, 2.86712, 2.11032, 2.025, 1.89894, 2.76579, 2.05125, 1.42766, 2.4657,
2.30919, 3.26001, 1.6488, 2.51009, 1.885409999999998, 2.61955, 1.9521, 2.32323, 1.5714,
2.82334, 2.1309, 1.79293, 1.9757, 1.598879999999999, 1.68435, 2.79832, 2.27513, 1.95071,
2.32407, 2.67585, 1.58782]

Mean absolute error:- 0.00027671681287486647
Mean squared error:- 9.96923669026052e-08
Root mean squared error:- 0.0003157409807145807
r2 Score:- 0.9999995141024852

At random state 569 the model performs very well

At random state 569

Training score is
0.9999997278931212

Predicted value is [2.83597155 2.76618921 0.99838981 2.21123831 2.45195056 2.30874995
2.32311198 2.31985068 2.53922582 2.63443114 1.58822156 2.09979689
2.67621448 2.82365398 1.88531115 2.37163348 1.59573057 2.090244
1.68427991 2.51775621 2.05108429 2.27551167 2.51755821 1.38093161
3.08891533 2.00077482 1.34731611 1.86967106 2.86705231 2.41454204] and Actual value is [
2.8360000000000003, 2.76579, 0.99895, 2.21126, 2.451759999999997, 2.30919, 2.32323, 2.31
945, 2.5394200000000002, 2.6343, 1.58782, 2.10017, 2.67585, 2.82334, 1.885009999999999,
2.3711900000000004, 1.59541, 2.090659999999997, 1.68435, 2.51767, 2.05125, 2.27513, 2.51
73799999999997, 1.38079, 3.08854, 2.00073, 1.34759, 1.8698400000000002, 2.86712, 2.414840
0000000003]

Mean absolute error:- 0.00025568736202359333
Mean squared error:- 8.68651503012557e-08
Root mean squared error:- 0.0002947289437792897
r2 Score:- 0.9999996475822521

At random state 570 the model performs very well

At random state 570

Training score is
0.999999723252748

Predicted value is [1.96965097 1.59857901 1.57162797 2.32127762 2.21117583 3.10733132
2.50957304 1.79311396 2.06395699 1.86964476 2.49195243 1.63324904
3.05126304 1.94273305 2.46552604 2.26641181 2.24189971 2.20143998
2.76616964 2.23231586 1.75874393 2.43855072 2.74276743 1.94937334
2.41445523 2.59438493 2.32306488 2.00076038 2.18861367 2.4518123] and Actual value is [
1.9699400000000002, 1.598879999999999, 1.5714, 2.321420000000003, 2.21126, 3.1070900000
000004, 2.51011, 1.79293, 2.06367, 1.869840000000002, 2.492040000000003, 1.633279999999
998, 3.05137, 1.94295999999998, 2.4657, 2.26646, 2.24173, 2.20173, 2.76579, 2.2327, 1.
75873, 2.43872, 2.74255, 1.9493900000000002, 2.414840000000003, 2.5945, 2.32323, 2.00073
, 2.18896, 2.451759999999997]

Mean absolute error:- 0.00019661235609613747
Mean squared error:- 5.5055367963033593e-08
Root mean squared error:- 0.00023463880319127438
r2 Score:- 0.9999996341837044

At random state 571 the model performs very well

At random state 571

Training score is
0.9999997147875351

Predicted value is [2.02494201 2.61951947 2.08474831 0.65449892 2.1181034 1.94270444
2.49200483 2.67614482 1.97544604 2.44216788 2.05112532 2.23232957
2.79074219 2.46554406 3.03484416 2.50956629 2.51766894 2.59437618
2.00076588 2.74277875 1.78523554 1.21359839 2.02483077 1.6842947
2.4865903 2.46512986 2.2642047 1.75335039 3.17758032 2.20148556] and Actual value is [
2.025179999999998, 2.61955, 2.08528, 0.654289999999999, 2.11773, 1.942959999999998, 2.
492040000000003, 2.67585, 1.9757, 2.44191, 2.05125, 2.2327, 2.79094, 2.4657, 3.035, 2.51

011, 2.51767, 2.5945, 2.00073, 2.74255, 1.78555, 1.21305, 2.025, 1.68435, 2.48676, 2.4653
099999999997, 2.26425, 1.7536, 3.17728, 2.20173]

Mean absolute error:- 0.00022315783607145995
Mean squared error:- 7.065778144239288e-08
Root mean squared error:- 0.00026581531453697863
r2 Score:- 0.9999997228222924

At random state 572 the model performs very well

At random state 572

Training score is

0.9999997247093552

Predicted value is [1.24109196 2.30874885 1.92341453 0.89936389 1.8765716 2.51773846
2.44221605 2.44683944 2.74279623 1.59852726 1.8511081 2.20794271
2.46557206 1.89855621 3.60190384 1.94935654 1.76135362 2.41451131
2.04403497 1.83337356 3.26049259 1.64832277 2.86709598 2.27548885
2.09021442 1.59897731 2.8932566 2.50991147 1.46176662 1.95075137] and Actual value is [
1.24074, 2.30919, 1.92313, 0.89991, 1.8763400000000001, 2.51767, 2.44191, 2.44649000000000
003, 2.74255, 1.5988799999999999, 1.851, 2.20857, 2.4657, 1.89894, 3.6021400000000003, 1.
9493900000000002, 1.76145, 2.4148400000000003, 2.0438400000000003, 1.83302, 3.26001, 1.64
88, 2.86712, 2.27513, 2.0906599999999997, 1.59927, 2.89319, 2.51009, 1.46181, 1.95071]

Mean absolute error:- 0.0002693146614401121

Mean squared error:- 9.923365317348462e-08

Root mean squared error:- 0.00031501373489656705

r2 Score:- 0.9999996948793524

At random state 573 the model performs very well

At random state 573

Training score is

0.9999997503580333

Predicted value is [1.59579096 2.24707961 1.68426681 2.12372382 1.83349222 2.09028793
2.7427872 1.94273323 1.95258166 2.43243645 2.24193508 1.69491463
2.45189337 2.51774768 1.7383139 2.24627257 2.46516097 1.5704037
2.53919779 1.75874625 2.0998387 1.62257103 1.7380573 1.85997972
2.50988039 1.61617169 3.08885264 1.71922652 2.11009241 2.02487397] and Actual value is [
1.59541, 2.24729, 1.68435, 2.12367, 1.83302, 2.0906599999999997, 2.74255, 1.942959999999
998, 1.9521, 2.43209, 2.24173, 1.6944, 2.451759999999997, 2.51767, 1.73797, 2.2463900000
000003, 2.4653099999999997, 1.57059, 2.5394200000000002, 1.75873, 2.10017, 1.62215, 1.737
9900000000001, 1.8604, 2.51009, 1.6158299999999999, 3.08854, 1.7195599999999998, 2.11032,
2.025]

Mean absolute error:- 0.0002540524427419033

Mean squared error:- 8.31733931886624e-08

Root mean squared error:- 0.0002883979770883672

r2 Score:- 0.9999994300552553

At random state 574 the model performs very well

At random state 574

Training score is

0.999999728811534

Predicted value is [2.76622241 2.321288 2.23234052 2.8482784 1.86438827 1.78527005
2.44218875 3.08892245 1.95074759 1.878747 2.89334529 1.38095615
1.75870997 3.10743592 2.10999708 1.46505028 1.80041465 2.51747746
2.00079507 1.86965445 2.13134301 1.79308783 1.87963275 2.49200758
1.844105 1.69492172 2.26647819 1.88960965 2.04399474 2.79066391] and Actual value is [
2.76579, 2.3214200000000003, 2.2327, 2.84848, 1.86399, 1.78555, 2.44191, 3.08854, 1.95071
, 1.87877, 2.89319, 1.38079, 1.75873, 3.107090000000004, 2.11032, 1.46494, 1.8010099999
9998, 2.517379999999997, 2.00073, 1.869840000000002, 2.1309, 1.79293, 1.87995999999999
99, 2.4920400000000003, 1.84408, 1.6944, 2.26646, 1.889309999999998, 2.0438400000000003,
2.79094]

Mean absolute error:- 0.00022817981459873535

Mean squared error:- 7.73468654601705e-08

Root mean squared error:- 0.00027811304439053283

r2 Score:- 0.9999996349170917

At random state 575 the model performs very well

At random state 575
Training score is
0.9999997183865302
Predicted value is [2.21116998 2.11349058 2.2419336 1.85989554 2.6777179 2.59435133
2.22000454 2.76617116 1.57033367 2.00074907 1.3809901 2.20137639
2.31983945 1.7586843 2.51748645 1.34736577 2.32375133 1.46179893
2.37156586 1.96976588 2.53913396 1.75329767 1.73928697 2.4385965
2.4421918 3.6017906 2.12372276 1.58822675 2.26426753 1.42784189] and Actual value is [
2.21126, 2.1139900000000003, 2.24173, 1.8604, 2.67782, 2.5945, 2.21978, 2.76579, 1.57059,
2.00073, 1.38079, 2.20173, 2.31945, 1.75873, 2.5173799999999997, 1.34759, 2.32407, 1.4618
1, 2.3711900000000004, 1.9699400000000002, 2.5394200000000002, 1.7536, 1.7393299999999998
, 2.43872, 2.44191, 3.6021400000000003, 2.12367, 1.58782, 2.26425, 1.42766]

Mean absolute error:- 0.00022245591486438343
Mean squared error:- 6.98304795543775e-08
Root mean squared error:- 0.0002642545733840334
r2 Score:- 0.9999997027240299

At random state 576 the model performs very well

At random state 576
Training score is
0.999999745618788

Predicted value is [2.43857508 2.46515198 2.0902679 2.79876903 2.53339368 1.44423563
2.11817167 2.44684955 2.67776839 1.68431996 2.09982255 1.595772
1.38099672 2.11559692 2.24712117 1.86608861 2.24630564 0.67143934
1.8850172 1.88526819 2.59440481 2.67615557 1.9507649 1.73832951
2.27548532 1.95601143 2.04406722 2.1250849 1.86428554 2.26646436] and Actual value is [
2.43872, 2.4653099999999997, 2.0906599999999997, 2.79832, 2.5332, 1.44395, 2.11773, 2.446
49000000000003, 2.67782, 1.68435, 2.10017, 1.59541, 1.38079, 2.1156900000000003, 2.24743,
1.86565, 2.2463900000000003, 0.67108, 1.8854099999999998, 1.8850099999999999, 2.5945, 2.6
7585, 1.95071, 1.73797, 2.27513, 1.9563700000000002, 2.0438400000000003, 2.12466, 1.86399
, 2.26646]

Mean absolute error:- 0.00026129061355675647
Mean squared error:- 8.685059312592353e-08
Root mean squared error:- 0.00029470424687459717
r2 Score:- 0.9999995531439533

At random state 577 the model performs very well

At random state 577
Training score is
0.9999997136914117

Predicted value is [3.60183486 1.85996964 1.84414815 2.09027096 1.80034508 1.79311714
2.06388339 2.51770736 1.59892357 2.18865209 2.45363369 2.86701124
1.59571328 3.17759876 2.21118023 2.61950191 1.68424083 2.26423557
3.08881364 2.47496573 2.46558688 1.34731036 2.24709331 2.24623658
2.83591744 1.86427932 1.71921036 1.2135804 2.27545295 2.41447688] and Actual value is [
3.6021400000000003, 1.8604, 1.84408, 2.0906599999999997, 1.8010099999999998, 1.79293, 2.0
6367, 2.51767, 1.59927, 2.18896, 2.4537299999999997, 2.86712, 1.59541, 3.17728, 2.21126,
2.61955, 1.68435, 2.26425, 3.08854, 2.4748900000000003, 2.4657, 1.34759, 2.24743, 2.24639
000000000003, 2.8360000000000003, 1.86399, 1.7195599999999998, 1.21305, 2.27513, 2.4148400
000000003]

Mean absolute error:- 0.0002399544103952378
Mean squared error:- 8.158192611369978e-08
Root mean squared error:- 0.00028562549976096283
r2 Score:- 0.9999997198502897

At random state 578 the model performs very well

At random state 578
Training score is
0.9999997085893922

Predicted value is [2.31983445 1.24113542 1.75334966 3.19109195 2.45186676 2.11816452
2.82365192 1.96937871 2.74281506 1.63330418 3.26044988 2.48662332
1.95300042 1.86432998 3.60185873 2.27550025 1.71926734 2.53919881
2.41448537 1.8511503 1.83347181 1.41718669 1.46509953 2.1250609
2.63446381 2.67775675 1.86000409 2.89327767 2.44223394 1.64840708] and Actual value is [
2.31945, 1.24074, 1.7536, 3.191309999999996, 2.4517599999999997, 2.11773, 2.82334, 1.969
6099999999999, 2.74255, 1.6332799999999998, 3.26001, 2.48676, 1.95335, 1.86399, 3.6021400

00000003, 2.27513, 1.719559999999998, 2.5394200000000002, 2.4148400000000003, 1.851, 1.83302, 1.41723, 1.46494, 2.12466, 2.6343, 2.67782, 1.8604, 2.89319, 2.44191, 1.6488]

Mean absolute error:- 0.000268049104934646

Mean squared error:- 8.773593941622671e-08

Root mean squared error:- 0.00029620253107667176

r2 Score:- 0.9999997294601648

At random state 579 the model performs very well

At random state 579

Training score is

0.9999997105218182

Predicted value is [2.27555012 2.83598067 2.13136338 1.7533449 2.11811045 1.2411326 1.69487601 1.64837826 2.51751134 3.03487542 2.23230957 2.24181232 1.63332852 1.73928222 0.99848664 1.46177363 0.65447988 2.75462391 1.95298876 2.4920235 2.09981106 1.87663772 2.11560375 2.74281517 2.12512394 1.41717153 3.17762854 2.32376384 2.86699071 2.53342963] and Actual value is [2.27513, 2.8360000000000003, 2.1309, 1.7536, 2.11773, 1.24074, 1.6944, 1.6488, 2.5173799999999997, 3.035, 2.2327, 2.24173, 1.6332799999999998, 1.7393299999999998, 0.99895, 1.46181, 0.6542899999999999, 2.75414, 1.95335, 2.4920400000000003, 2.10017, 1.8763400000000001, 2.1156900000000003, 2.74255, 2.12466, 1.41723, 3.17728, 2.32407, 2.86712, 2.5332]

Mean absolute error:- 0.0002583023900984268

Mean squared error:- 9.240619190949288e-08

Root mean squared error:- 0.00030398386784415534

r2 Score:- 0.9999997349840832

At random state 580 the model performs very well

At random state 580

Training score is

0.9999997254073365

Predicted value is [2.04405276 2.67775526 2.53921393 2.53337787 0.89938418 2.74280148 2.46557254 2.6761775 2.12373131 1.64835707 2.26422681 0.98170499 1.46173696 1.42786644 2.11816175 1.83347421 2.024861 1.73927487 1.89856155 2.11554126 1.86424327 2.63447663 2.06392207 1.86604726 2.70213782 2.21120749 1.9311029 2.0007708 2.26645381 2.50958932] and Actual value is [2.0438400000000003, 2.67782, 2.5394200000000002, 2.5332, 0.89991, 2.74255, 2.4657, 2.67585, 2.12367, 1.6488, 2.26425, 0.98195, 1.46181, 1.42766, 2.11773, 1.83302, 2.025, 1.7393299999999998, 1.89894, 2.1156900000000003, 1.86399, 2.6343, 2.06367, 1.86565, 2.70201, 2.21126, 1.9312900000000002, 2.00073, 2.26646, 2.51011]

Mean absolute error:- 0.00021890705799122446

Mean squared error:- 7.064278073498399e-08

Root mean squared error:- 0.00026578709662996057

r2 Score:- 0.9999996795332183

At random state 581 the model performs very well

At random state 581

Training score is

0.999999723320606

Predicted value is [1.76143442 2.27554063 2.20790344 0.67145426 1.96975154 1.42783904 1.95256353 1.88528208 1.5716015 1.64840301 2.63441334 1.44418978 1.62255911 1.63814377 2.74277761 2.18862491 1.73801522 2.26423159 2.06384196 1.88958312 0.99850664 2.02482846 1.87661265 3.60183777 2.30876516 2.09023263 2.02495203 2.23231893 1.75871898 2.61952644] and Actual value is [1.76145, 2.27513, 2.20857, 0.67108, 1.9699400000000002, 1.42766, 1.9521, 1.8850099999999999, 1.5714, 1.6488, 2.6343, 1.44395, 1.62215, 1.63794, 2.74255, 2.18896, 1.7379900000000001, 2.26425, 2.06367, 1.8893099999999998, 0.99895, 2.025, 1.8763400000000001, 3.60214000000003, 2.30919, 2.0906599999999997, 2.0251799999999998, 2.2327, 1.75873, 2.61955]

Mean absolute error:- 0.00026238938115931144

Mean squared error:- 9.36349898138238e-08

Root mean squared error:- 0.0003059983493645412

r2 Score:- 0.999999668782632

At random state 582 the model performs very well

At random state 582

Training score is

0.9999997413488653
Predicted value is [2.43250893 1.63813729 1.9585054 1.42785745 2.11560364 2.0902907
2.48664448 2.00082811 2.70215215 1.87662392 2.63443365 2.53341177
1.44421037 2.46518476 1.34736999 1.73836399 1.41718456 1.68431529
2.23235499 2.76619119 2.45190528 2.75458002 2.44689993 1.62261666
1.57168805 1.86429276 1.85999109 2.41452999 2.44223958 1.88530507] and Actual value is [
2.43209, 1.63794, 1.95812, 1.42766, 2.1156900000000003, 2.0906599999999997, 2.48676, 2.00
073, 2.70201, 1.8763400000000001, 2.6343, 2.5332, 1.44395, 2.4653099999999997, 1.34759, 1
.73797, 1.41723, 1.68435, 2.2327, 2.76579, 2.4517599999999997, 2.75414, 2.4464900000000000
3, 1.62215, 1.5714, 1.86399, 1.8604, 2.4148400000000003, 2.44191, 1.8850099999999999]
Mean absolute error:- 0.0002620695937063748
Mean squared error:- 8.456090587619661e-08
Root mean squared error:- 0.00029079357949617215
r2 Score:- 0.9999995581022129

At random state 583 the model performs very well

At random state 583

Training score is

0.9999997173206322

Predicted value is [2.32308602 2.76611298 2.82364878 1.7380161 2.51750549 2.27407595
2.48655623 2.30873855 2.20152157 1.84414064 2.26424277 1.87965438
2.12376706 1.59893936 1.96975012 2.31982711 3.60183636 2.20787611
1.88524642 3.03482424 1.95289187 1.58825826 1.75868586 1.63328445
2.12502723 1.3473552 2.67616884 2.53919926 2.24627556 0.67145541] and Actual value is [
2.32323, 2.76579, 2.82334, 1.7379900000000001, 2.5173799999999997, 2.27394, 2.48676, 2.30
919, 2.20173, 1.84408, 2.26425, 1.8799599999999999, 2.12367, 1.59927, 1.9699400000000002,
2.31945, 3.6021400000000003, 2.20857, 1.8850099999999999, 3.035, 1.95335, 1.58782, 1.7587
3, 1.6332799999999998, 2.12466, 1.34759, 2.67585, 2.5394200000000002, 2.2463900000000003,
0.67108]

Mean absolute error:- 0.00024270866656569411

Mean squared error:- 8.323380821205385e-08

Root mean squared error:- 0.00028850270052818195

r2 Score:- 0.9999997187064639

At random state 584 the model performs very well

At random state 584

Training score is

0.9999997069350749

Predicted value is [2.83593518 1.68431021 0.65455962 1.89856843 2.61952538 2.49202993
1.85108983 1.5986154 3.17757556 2.47495436 2.31979389 1.59569802
1.44421204 1.24119602 1.95073168 2.26648569 2.30870543 2.44845152
1.99176682 2.74277951 2.02484971 2.09029054 1.71927301 1.58827616
3.60177854 1.94932225 1.42790326 1.83342763 2.11355522 2.08474966] and Actual value is [
2.8360000000000003, 1.68435, 0.6542899999999999, 1.89894, 2.61955, 2.4920400000000003, 1.
851, 1.5988799999999999, 3.17728, 2.4748900000000003, 2.31945, 1.59541, 1.44395, 1.24074,
1.95071, 2.26646, 2.30919, 2.44876, 1.991720000000002, 2.74255, 2.025, 2.090659999999999
7, 1.7195599999999998, 1.58782, 3.6021400000000003, 1.9493900000000002, 1.42766, 1.83302,
2.1139900000000003, 2.08528]

Mean absolute error:- 0.00024232245915114156

Mean squared error:- 8.436803830082514e-08

Root mean squared error:- 0.00029046176736504433

r2 Score:- 0.9999997513362181

At random state 585 the model performs very well

At random state 585

Training score is

0.9999996961107821

Predicted value is [1.59897762 1.68424421 1.86969702 2.12502755 2.46517733 3.08885366
2.27405463 1.89853634 1.46505976 1.73831355 3.10736288 2.79068095
2.45190568 2.24627619 3.19107259 2.22000718 0.89936327 1.4278258
1.73799425 1.92337094 2.63443005 3.0348259 1.85994174 2.30873197
2.84824284 1.94939618 2.59436684 2.47497579 2.24190122 1.68153531] and Actual value is [
1.59927, 1.68435, 1.8698400000000002, 2.12466, 2.4653099999999997, 3.08854, 2.27394, 1.89
894, 1.46494, 1.73797, 3.1070900000000004, 2.79094, 2.4517599999999997, 2.2463900000000000
3, 3.1913099999999996, 2.21978, 0.89991, 1.42766, 1.7379900000000001, 1.92313, 2.6343, 3.
035, 1.8604, 2.30919, 2.84848, 1.9493900000000002, 2.5945, 2.4748900000000003, 2.24173, 1

.68135]

Mean absolute error:- 0.0002196539102955956
Mean squared error:- 6.522948071004951e-08
Root mean squared error:- 0.00025540062785758675
r2 Score:- 0.9999997883570725

At random state 586 the model performs very well
At random state 586
Training score is
0.9999997187869666

Predicted value is [2.76617453 2.45364586 2.27413617 3.05122312 1.38092407 2.47497912
2.31981054 1.95301374 1.62259435 2.67780733 2.11350124 1.87965831
1.75331589 2.21122959 0.98168555 2.1886515 1.34734571 1.95071805
2.32130852 2.1155863 1.93114506 1.57164192 2.8236324 1.95593975
3.10713143 2.4468854 2.22005302 2.46559486 1.6162127 1.7587166] and Actual value is [
2.76579, 2.4537299999999997, 2.27394, 3.05137, 1.38079, 2.4748900000000003, 2.31945, 1.95
335, 1.62215, 2.67782, 2.1139900000000003, 1.8799599999999999, 1.7536, 2.21126, 0.98195,
2.18896, 1.34759, 1.95071, 2.3214200000000003, 2.1156900000000003, 1.9312900000000002, 1.
5714, 2.82334, 1.9563700000000002, 3.10712, 2.4464900000000003, 2.21978, 2.4657, 1.615829
999999999, 1.75873]

Mean absolute error:- 0.00022082574546330446
Mean squared error:- 6.933378710142056e-08
Root mean squared error:- 0.00026331309709435376
r2 Score:- 0.9999997165085434

At random state 587 the model performs very well
At random state 587
Training score is
0.9999997100530295

Predicted value is [1.46506803 3.10709263 1.73798395 1.38094131 2.32135857 2.21129105
1.5989814 3.26045194 1.68438016 1.26504657 3.0348786 2.23774283
2.22004637 2.44684218 2.50983597 1.71923818 2.08478401 1.59580678
1.21363414 2.46514627 2.83598803 1.87880043 2.75455669 2.47498333
2.84826655 2.18864711 1.96968047 2.48652531 2.8073789 2.26421221] and Actual value is [
1.46494, 3.10712, 1.7379900000000001, 1.38079, 2.3214200000000003, 2.21126, 1.59927, 3.26
001, 1.68435, 1.26462, 3.035, 2.237409999999997, 2.21978, 2.4464900000000003, 2.51009, 1
.719559999999998, 2.08528, 1.59541, 1.21305, 2.465309999999997, 2.8360000000000003, 1.8
7877, 2.75414, 2.4748900000000003, 2.84848, 2.18896, 1.9699400000000002, 2.48676, 2.80790
999999999, 2.26425]

Mean absolute error:- 0.00023412179270532185
Mean squared error:- 8.330512400314771e-08
Root mean squared error:- 0.00028862627046606084
r2 Score:- 0.9999997288682227

At random state 588 the model performs very well
At random state 588
Training score is
0.9999996867905955

Predicted value is [2.09973712 1.88522712 2.02480984 1.79316949 0.65453605 1.46178468
1.94928931 1.5703336 2.247113 3.17763064 1.95246284 1.21364779
2.23775489 2.04398478 2.18870988 1.68157068 2.86703041 1.80031424
2.63448998 3.10708949 3.60180863 1.86968869 2.31984989 2.43848344
2.24189449 2.27403359 2.453616 2.61952908 0.98186642 2.6761804] and Actual value is [
2.10017, 1.885009999999999, 2.025, 1.79293, 0.6542899999999999, 1.46181, 1.9493900000000
002, 1.57059, 2.24743, 3.17728, 1.9521, 1.21305, 2.23740999999997, 2.0438400000000003,
2.18896, 1.68135, 2.86712, 1.80100999999998, 2.6343, 3.10712, 3.602140000000003, 1.869
8400000000002, 2.31945, 2.43872, 2.24173, 2.27394, 2.4537299999999997, 2.61955, 0.98195,
2.67585]

Mean absolute error:- 0.00024096032115077012
Mean squared error:- 8.239427054606534e-08
Root mean squared error:- 0.00028704402196538657
r2 Score:- 0.999999786571123

At random state 589 the model performs very well

At random state 589
Training score is
0.9999997290048314
Predicted value is [1.46506042 2.11563525 1.86437951 2.00077182 1.34737002 1.86003563
1.73826674 1.46175662 1.80034129 2.20787788 0.67146518 3.10733492
1.93109112 3.08888408 2.04397552 2.32132378 2.2642758 2.275542
1.9918399 1.79308566 2.76615748 2.46518892 2.5098768 1.87659329
1.61623167 2.30877032 2.70220019 1.73926795 2.43851222 2.48654364] and Actual value is [
1.46494, 2.1156900000000003, 1.86399, 2.00073, 1.34759, 1.8604, 1.73797, 1.46181, 1.80100
9999999998, 2.20857, 0.67108, 3.1070900000000004, 1.9312900000000002, 3.08854, 2.0438400
00000003, 2.3214200000000003, 2.26425, 2.27513, 1.9917200000000002, 1.79293, 2.76579, 2.
465309999999997, 2.51009, 1.8763400000000001, 1.6158299999999999, 2.30919, 2.70201, 1.73
9329999999998, 2.43872, 2.48676]
Mean absolute error:- 0.00024909084310035243
Mean squared error:- 8.996464701389822e-08
Root mean squared error:- 0.0002999410725690935
r2 Score:- 0.9999996549272745

At random state 590 the model performs very well

At random state 590

Training score is

0.9999997485689619

Predicted value is [1.8766738 1.86612514 2.20785853 1.38088749 2.82364813 1.96946158
2.53919653 1.73832358 2.10988961 2.44683022 2.02493528 1.99175809
1.95836038 2.23229038 0.65447276 2.1237659 1.46189928 2.79073356
1.57159729 2.2462865 1.58829845 1.44415349 2.24718051 1.78520002
0.99853162 1.95288494 2.32373882 1.95591218 1.86006125 2.09973035] and Actual value is [
1.8763400000000001, 1.86565, 2.20857, 1.38079, 2.82334, 1.9696099999999999, 2.53942000000
00002, 1.73797, 2.11032, 2.4464900000000003, 2.0251799999999998, 1.9917200000000002, 1.95
812, 2.2327, 0.6542899999999999, 2.12367, 1.46181, 2.79094, 1.5714, 2.2463900000000003, 1
.58782, 1.44395, 2.24729, 1.78555, 0.99895, 1.95335, 2.32407, 1.9563700000000002, 1.8604,
2.10017]

Mean absolute error:- 0.00029407882362197566

Mean squared error:- 1.0996569948831213e-07

Root mean squared error:- 0.0003316107650368307

r2 Score:- 0.9999994829361567

At random state 591 the model performs very well

At random state 591

Training score is

0.9999997252807125

Predicted value is [1.68429796 1.71922524 1.95243646 1.92333824 1.95598519 1.8660842
2.26649623 2.06395861 1.96941081 2.13135237 1.21362406 2.43851688
2.79075648 2.80741556 1.59894018 1.73931189 2.31983342 2.18868486
3.60180626 2.41450159 2.8236203 2.74279821 3.05123089 1.88524831
3.10709566 1.88961848 1.38098926 1.85997665 1.94267383 0.99842652] and Actual value is [
1.68435, 1.719559999999998, 1.9521, 1.92313, 1.956370000000002, 1.86565, 2.26646, 2.063
67, 1.969609999999999, 2.1309, 1.21305, 2.43872, 2.79094, 2.807909999999997, 1.59927, 1
.7393299999999998, 2.31945, 2.18896, 3.6021400000000003, 2.4148400000000003, 2.82334, 2.7
4255, 3.05137, 1.8850099999999999, 3.10712, 1.8893099999999998, 1.38079, 1.8604, 1.942959
9999999998, 0.99895]

Mean absolute error:- 0.0002843897830772583

Mean squared error:- 1.0101599470117432e-07

Root mean squared error:- 0.00031783013497963707

r2 Score:- 0.9999996927895937

At random state 592 the model performs very well

At random state 592

Training score is

0.9999997105557501

Predicted value is [2.207891 2.43849032 1.58822498 1.75337867 2.24712667 1.59856695
1.38092708 2.82370185 1.92339761 2.59442246 0.89934977 2.70217665
3.17768129 2.8483076 2.18867254 1.97545565 1.86607981 2.32307153
0.65441934 2.00076399 2.44218011 1.79311215 1.71921221 1.87965102
2.49201119 1.95287257 3.10729566 1.83337819 3.08886047 2.45187181] and Actual value is [
2.20857, 2.43872, 1.58782, 1.7536, 2.24729, 1.5988799999999999, 1.38079, 2.82334, 1.92313

, 2.5945, 0.89991, 2.70201, 3.17728, 2.84848, 2.18896, 1.9757, 1.86565, 2.32323, 0.654289
9999999999, 2.00073, 2.44191, 1.79293, 1.7195599999999998, 1.8799599999999999, 2.49204000
00000003, 1.95335, 3.1070900000000004, 1.83302, 3.08854, 2.4517599999999997]

Mean absolute error:- 0.00026836147349420896
Mean squared error:- 9.394726260969847e-08
Root mean squared error:- 0.00030650817706824476
r2 Score:- 0.999997337376005

At random state 593 the model performs very well

At random state 593

Training score is

0.999997294278385

Predicted value is [1.73925771 2.11352646 1.95250765 3.6018838 1.57034372 1.63329644
2.09976706 2.24714765 3.2604638 2.85763638 1.87665005 2.20791775
1.86607598 0.89936583 2.05111176 3.1911108 2.00079093 2.32375163
1.21354992 1.59569958 2.20147656 1.87875434 2.24627669 2.49203619
2.82366629 1.85999731 2.75455439 2.67617325 1.84409787 2.11810139] and Actual value is [
1.7393299999999998, 2.1139900000000003, 1.9521, 3.6021400000000003, 1.57059, 1.6332799999
999998, 2.10017, 2.24729, 3.26001, 2.85737, 1.8763400000000001, 2.20857, 1.86565, 0.89991
, 2.05125, 3.1913099999999996, 2.00073, 2.32407, 1.21305, 1.59541, 2.20173, 1.87877, 2.24
63900000000003, 2.4920400000000003, 2.82334, 1.8604, 2.75414, 2.67585, 1.84408, 2.11773]

Mean absolute error:- 0.00028028874045204675

Mean squared error:- 1.0765164753417149e-07

Root mean squared error:- 0.0003281031050358583

r2 Score:- 0.9999996827149795

At random state 594 the model performs very well

At random state 594

Training score is

0.999997174617758

Predicted value is [2.2015084 2.50960114 1.87879586 1.99180393 1.85112981 2.75457679
2.24631579 2.27412265 2.82362998 2.247088 2.43246184 2.31977232
2.12508796 2.00080526 3.19111088 1.87968542 1.96970723 2.46556639
2.44849055 0.67141405 1.44420597 2.37153544 1.95846796 3.05122788
3.08884837 1.84415977 1.95073805 2.45368284 2.43855458 1.78525718] and Actual value is [
2.20173, 2.51011, 1.87877, 1.991720000000002, 1.851, 2.75414, 2.2463900000000003, 2.2739
4, 2.82334, 2.24743, 2.43209, 2.31945, 2.12466, 2.00073, 3.191309999999996, 1.8799599999
999999, 1.9699400000000002, 2.4657, 2.44876, 0.67108, 1.44395, 2.3711900000000004, 1.9581
2, 3.05137, 3.08854, 1.84408, 1.95071, 2.4537299999999997, 2.43872, 1.78555]

Mean absolute error:- 0.00023165782836488403

Mean squared error:- 7.030848569915925e-08

Root mean squared error:- 0.00026515747339865656

r2 Score:- 0.99999716212337

At random state 595 the model performs very well

At random state 595

Training score is

0.999997364726896

Predicted value is [2.2200041 3.10714166 1.95837609 2.21125152 2.31987156 2.89317865
2.44216572 2.24713578 1.616306 0.67150596 2.46514659 2.09971544
2.12381316 1.94269651 1.57035762 1.88516755 2.80737115 2.79066593
1.24118706 2.08470849 2.24707302 1.46176341 1.9528481 2.8576573
2.53918686 2.61951117 2.20786635 2.51747966 2.27411666 2.45362154] and Actual value is [
2.21978, 3.107090000000004, 1.95812, 2.21126, 2.31945, 2.89319, 2.44191, 2.24729, 1.6158
299999999999, 0.67108, 2.4653099999999997, 2.10017, 2.12367, 1.942959999999998, 1.57059,
1.885009999999999, 2.807909999999997, 2.79094, 1.24074, 2.08528, 2.24743, 1.46181, 1.95
335, 2.85737, 2.539420000000002, 2.61955, 2.20857, 2.5173799999999997, 2.27394, 2.453729
9999999997]

Mean absolute error:- 0.0002694780986026046

Mean squared error:- 1.0518467586339595e-07

Root mean squared error:- 0.0003243218707756169

r2 Score:- 0.9999996014231318

At random state 596 the model performs very well

At random state 596
Training score is
0.9999997028773209
Predicted value is [2.4866322 2.12377347 1.96972647 2.44843534 1.62261379 2.67778308
2.86696832 2.51767712 2.0510977 2.12508482 2.75458635 0.65454501
2.32312712 1.61622843 1.96944806 2.24185757 1.46178115 2.59440609
2.24712772 1.59901945 2.83595941 2.89322399 1.63811581 1.69488848
2.43245342 2.63442214 1.4171658 1.87663401 2.20146097 2.61950678] and Actual value is [
2.48676, 2.12367, 1.9694000000000002, 2.44876, 1.62215, 2.67782, 2.86712, 2.51767, 2.0512
5, 2.12466, 2.75414, 0.6542899999999999, 2.32323, 1.6158299999999999, 1.9696099999999999,
2.24173, 1.46181, 2.5945, 2.24729, 1.59927, 2.8360000000000003, 2.89319, 1.63794, 1.6944,
2.43209, 2.6343, 1.41723, 1.8763400000000001, 2.20173, 2.61955]

Mean absolute error:- 0.0001976251007137386
Mean squared error:- 5.934000596381094e-08
Root mean squared error:- 0.00024359804178977084
r2 Score:- 0.999999778492491

At random state 597 the model performs very well

At random state 597
Training score is
0.9999997404069572

Predicted value is [1.8511088 1.87661582 1.9506935 2.45192516 2.79063633 2.80737064
0.9984886 2.24715283 2.44845408 2.13139877 0.65455916 1.69483288
2.46565117 1.75331514 2.61957974 2.18864502 2.51767422 1.59574279
2.22004433 2.76614703 2.00080292 1.86429584 1.2411621 1.95846623
1.57036953 2.24630924 1.80044527 2.37162518 1.87967149 2.27408972] and Actual value is [
1.851, 1.8763400000000001, 1.95071, 2.4517599999999997, 2.79094, 2.8079099999999997, 0.99
895, 2.24743, 2.44876, 2.1309, 0.6542899999999999, 1.6944, 2.4657, 1.7536, 2.61955, 2.188
96, 2.51767, 1.59541, 2.21978, 2.76579, 2.00073, 1.86399, 1.24074, 1.95812, 1.57059, 2.24
63900000000003, 1.8010099999999998, 2.3711900000000004, 1.8799599999999999, 2.27394]

Mean absolute error:- 0.0002725952869380488
Mean squared error:- 9.827375079689716e-08
Root mean squared error:- 0.00031348644435907777
r2 Score:- 0.9999996084571102

At random state 598 the model performs very well

At random state 598
Training score is
0.9999997220707209

Predicted value is [2.20789565 2.32305969 2.06382141 2.2112075 1.57160337 3.08884055
2.27548265 2.51748978 1.95290801 2.48650064 2.24625778 3.60183209
2.11811658 1.86966068 1.59895153 1.75867537 1.46506809 3.19103409
1.85109982 1.94272823 2.11560328 2.20151303 2.32378461 2.00075858
1.79310255 2.79061115 1.89853861 2.44218083 2.18865879 0.99841155] and Actual value is [
2.20857, 2.32323, 2.06367, 2.21126, 1.5714, 3.08854, 2.27513, 2.5173799999999997, 1.95335
, 2.48676, 2.2463900000000003, 3.6021400000000003, 2.11773, 1.8698400000000002, 1.59927,
1.75873, 1.46494, 3.191309999999996, 1.851, 1.942959999999998, 2.1156900000000003, 2.20
173, 2.32407, 2.00073, 1.79293, 2.79094, 1.89894, 2.44191, 2.18896, 0.99895]

Mean absolute error:- 0.0002487309213353828
Mean squared error:- 8.281880062526601e-08
Root mean squared error:- 0.0002877825578892265
r2 Score:- 0.9999996878801878

At random state 599 the model performs very well

At random state 599
Training score is
0.99999973221841

Predicted value is [2.44839962 2.27411212 3.19108053 2.76612187 1.88528672 2.53917501
1.97549554 1.73931386 2.11351432 1.73836964 1.42785269 1.2412375
1.95305754 3.10723685 2.51749172 1.46179271 1.62262319 2.44217295
2.8073217 1.69481456 1.46506633 2.50960623 2.89317654 2.30868345
2.48660666 2.74272848 2.00080014 2.41450525 1.87873233 1.85109047] and Actual value is [
2.44876, 2.27394, 3.191309999999996, 2.76579, 1.885009999999999, 2.5394200000000002, 1.
9757, 1.739329999999998, 2.1139900000000003, 1.73797, 1.42766, 1.24074, 1.95335, 3.10709
0000000004, 2.517379999999997, 1.46181, 1.62215, 2.44191, 2.807909999999997, 1.6944, 1
.46494, 2.51011, 2.89319, 2.30919, 2.48676, 2.74255, 2.00073, 2.414840000000003, 1.87877

, 1.851]

Mean absolute error:- 0.00025746551333984217
Mean squared error:- 9.369801101785677e-08
Root mean squared error:- 0.0003061013084223208
r2 Score:- 0.9999996459570051

At random state 600 the model performs very well
At random state 600
Training score is
0.9999997355497832

Predicted value is [2.46513116 1.78523466 2.5176953 2.08475644 1.41716561 1.21364045
2.67618361 1.5957972 2.06394545 2.18862812 1.95297882 2.50956709
1.96940878 1.59895177 1.46505551 1.8660527 2.50988397 1.69481467
3.03486261 2.12372264 3.60184227 3.26040664 1.4616871 1.88527963
1.59863378 1.95596314 2.24190285 1.83351603 1.87967179 1.75335631] and Actual value is [
2.4653099999999997, 1.78555, 2.51767, 2.08528, 1.41723, 1.21305, 2.67585, 1.59541, 2.0636
7, 2.18896, 1.95335, 2.51011, 1.9696099999999999, 1.59927, 1.46494, 1.86565, 2.51009, 1.6
944, 3.035, 2.12367, 3.602140000000003, 3.26001, 1.46181, 1.8850099999999999, 1.59887999
99999999, 1.9563700000000002, 2.24173, 1.83302, 1.8799599999999999, 1.7536]

Mean absolute error:- 0.000290975095010911
Mean squared error:- 1.0567781137971159e-07
Root mean squared error:- 0.00032508123812319836
r2 Score:- 0.9999996455555845

At random state 601 the model performs very well
At random state 601
Training score is
0.9999997096447902

Predicted value is [1.97547535 1.76144278 1.71921771 3.10713919 2.75456883 1.69481555
1.46162822 0.99842402 1.59862411 3.08887968 2.44844477 2.27539425
3.60184165 1.59898914 1.24120591 2.30869612 2.24708245 2.59440797
1.57039414 1.61621815 2.12506104 2.43853723 1.73829803 1.44417519
1.9693907 2.85762641 2.06399565 2.84827592 2.80738638 2.04406189] and Actual value is [
1.9757, 1.76145, 1.7195599999999998, 3.10712, 2.75414, 1.6944, 1.46181, 0.99895, 1.598879
9999999999, 3.08854, 2.44876, 2.27513, 3.602140000000003, 1.59927, 1.24074, 2.30919, 2.2
4729, 2.5945, 1.57059, 1.6158299999999999, 2.12466, 2.43872, 1.73797, 1.44395, 1.96960999
99999999, 2.85737, 2.06367, 2.84848, 2.8079099999999997, 2.0438400000000003]

Mean absolute error:- 0.00028770332360394203
Mean squared error:- 9.971105566262793e-08
Root mean squared error:- 0.00031577057440906035
r2 Score:- 0.9999997341465209

At random state 602 the model performs very well
At random state 602
Training score is
0.9999997315234955

Predicted value is [3.088909 2.24714021 1.88522818 1.57036543 2.11354014 2.12505217
1.95842695 2.31986011 2.53917859 1.68428747 1.87661384 1.94942256
1.96943415 1.41716285 2.26424099 2.27414425 2.18867589 1.64843403
2.09026094 2.7661826 2.84828453 3.17760539 1.4278509 0.67141453
1.89855727 2.44845003 1.86609894 1.86435486 2.4468875 2.4749586] and Actual value is [
3.08854, 2.24729, 1.8850099999999999, 1.57059, 2.1139900000000003, 2.12466, 1.95812, 2.31
945, 2.5394200000000002, 1.68435, 1.8763400000000001, 1.9493900000000002, 1.969609999999
999, 1.41723, 2.26425, 2.27394, 2.18896, 1.6488, 2.090659999999997, 2.76579, 2.84848, 3.
17728, 1.42766, 0.67108, 1.89894, 2.44876, 1.86565, 1.86399, 2.446490000000003, 2.474890
0000000003]

Mean absolute error:- 0.00026826108893331926
Mean squared error:- 8.836956214085173e-08
Root mean squared error:- 0.00029727018374006454
r2 Score:- 0.9999996590627098

At random state 603 the model performs very well
At random state 603
Training score is

0.9999997120640687
Predicted value is [2.83592676 2.79061861 2.13139679 2.0998246 2.20141684 2.24706951
1.75331339 2.67771737 1.73834543 2.24189474 3.17752895 2.67615722
2.84821955 1.8334137 2.41449359 1.5985874 1.46508851 1.92334524
2.45356225 2.51759909 1.44422234 1.46176801 2.31980908 1.93108014
1.63317146 0.67145202 2.12375756 2.80734143 2.61952828 2.44841838] and Actual value is [
2.8360000000000003, 2.79094, 2.1309, 2.10017, 2.20173, 2.24729, 1.7536, 2.67782, 1.73797,
2.24173, 3.17728, 2.67585, 2.84848, 1.83302, 2.4148400000000003, 1.5988799999999999, 1.46
494, 1.92313, 2.453729999999997, 2.51767, 1.44395, 1.46181, 2.31945, 1.9312900000000002,
1.633279999999998, 0.67108, 2.12367, 2.807909999999997, 2.61955, 2.44876]

Mean absolute error:- 0.00025116425711155797
Mean squared error:- 8.052587460134622e-08
Root mean squared error:- 0.0002837708135121479
r2 Score:- 0.999999725080666

At random state 604 the model performs very well

At random state 604

Training score is

0.9999997450199065

Predicted value is [2.50959611 2.51752945 2.30871688 2.23235221 2.44849298 1.8852583
1.87964421 1.94931559 1.9584627 2.53918727 1.63814894 1.95247022
1.80030757 1.46509618 2.24186521 3.03482282 2.61956823 2.23776402
1.38097736 2.0439998 1.46177272 3.26044288 2.05111241 2.00075172
1.95291072 2.4145026 1.75865078 1.59891432 1.68426348 2.21120712] and Actual value is [
2.51011, 2.5173799999999997, 2.30919, 2.2327, 2.44876, 1.8850099999999999, 1.879959999999
9999, 1.9493900000000002, 1.95812, 2.5394200000000002, 1.63794, 1.9521, 1.801009999999999
8, 1.46494, 2.24173, 3.035, 2.61955, 2.237409999999997, 1.38079, 2.0438400000000003, 1.4
6181, 3.26001, 2.05125, 2.00073, 1.95335, 2.4148400000000003, 1.75873, 1.59927, 1.68435,
2.21126]

Mean absolute error:- 0.000247173408752969

Mean squared error:- 8.778592191869479e-08

Root mean squared error:- 0.00029628689123667755

r2 Score:- 0.9999995400355838

At random state 605 the model performs very well

At random state 605

Training score is

0.9999997295657471

Predicted value is [2.50988418 2.47497717 2.67774393 2.27407785 3.08885627 2.46516884
1.95845667 2.18861199 1.34728791 2.12372572 1.88497723 2.23230812
2.83595121 2.82360022 0.99844126 2.32376099 1.41713677 1.89854656
2.45188429 1.8642347 2.24185983 1.97546972 1.9524943 2.02484929
0.98165513 1.8796464 2.30870918 1.58823197 2.59437895 1.73831635] and Actual value is [
2.51009, 2.4748900000000003, 2.67782, 2.27394, 3.08854, 2.465309999999997, 1.95812, 2.18
896, 1.34759, 2.12367, 1.885409999999998, 2.2327, 2.8360000000000003, 2.82334, 0.99895,
2.32407, 1.41723, 1.89894, 2.451759999999997, 1.86399, 2.24173, 1.9757, 1.9521, 2.025, 0
.98195, 1.879959999999999, 2.30919, 1.58782, 2.5945, 1.73797]

Mean absolute error:- 0.0002562554720985914

Mean squared error:- 8.321547774937801e-08

Root mean squared error:- 0.0002884709305101261

r2 Score:- 0.9999996670493031

At random state 606 the model performs very well

At random state 606

Training score is

0.9999997385133148

Predicted value is [1.44415483 1.94926167 2.61951909 2.50991376 2.02483887 2.308705
2.24709973 1.95290998 2.24707389 2.46554661 2.00073009 0.99840695
2.11353421 1.41713202 2.12499048 1.21364618 2.51763385 2.2200015
2.85766189 1.88499259 1.59889409 1.86966494 1.87655602 2.79883648
2.23235845 1.86609301 1.68429927 0.65448413 1.87966544 2.44216669] and Actual value is [
1.44395, 1.9493900000000002, 2.61955, 2.51009, 2.025, 2.30919, 2.24729, 1.95335, 2.24743,
2.4657, 2.00073, 0.99895, 2.1139900000000003, 1.41723, 2.12466, 1.21305, 2.51767, 2.21978
, 2.85737, 1.885409999999998, 1.59927, 1.8698400000000002, 1.8763400000000001, 2.79832,
2.2327, 1.86565, 1.68435, 0.654289999999999, 1.879959999999999, 2.44191]

Mean absolute error:- 0.00027269710492113425
Mean squared error:- 1.0032355700718473e-07
Root mean squared error:- 0.0003167389414126162
r2 Score:- 0.9999995970975485

At random state 607 the model performs very well
At random state 607
Training score is
0.9999997182282697
Predicted value is [1.71922638 2.8482418 1.8442165 1.96941416 2.24191442 1.5716722
1.94270008 2.50988166 2.26645327 0.89948182 2.59440155 1.97543575
2.26421503 1.8335671 2.50953249 2.63446471 1.86606501 2.27405642
1.73805558 1.59586895 0.65458212 1.62257908 2.43248668 1.38098817
2.61953587 2.00078998 1.21366758 1.93117972 2.4468109 1.34729456] and Actual value is [
1.7195599999999998, 2.84848, 1.84408, 1.9696099999999999, 2.24173, 1.5714, 1.942959999999
9998, 2.51009, 2.26646, 0.89991, 2.5945, 1.9757, 2.26425, 1.83302, 2.51011, 2.6343, 1.865
65, 2.27394, 1.7379900000000001, 1.59541, 0.6542899999999999, 1.62215, 2.43209, 1.38079,
2.61955, 2.00073, 1.21305, 1.9312900000000002, 2.4464900000000003, 1.34759]

Mean absolute error:- 0.00025804223935991984
Mean squared error:- 9.408696126205269e-08
Root mean squared error:- 0.00030673597973184154
r2 Score:- 0.9999996538649437

At random state 608 the model performs very well
At random state 608
Training score is
0.9999997469727722
Predicted value is [1.92340032 2.8576389 2.24711479 1.34729647 2.12500862 1.76144799
2.24184093 1.79315062 2.31976492 2.59438538 2.74283614 2.47500979
2.41450864 1.73805547 2.08470266 1.24108545 2.26647772 3.10724211
1.80029492 2.86703517 1.95285853 1.89854819 1.5957462 1.73923549
2.21121822 2.61955999 2.02487278 2.23775902 1.88500188 2.18865874] and Actual value is [
1.92313, 2.85737, 2.24729, 1.34759, 2.12466, 1.76145, 2.24173, 1.79293, 2.31945, 2.5945,
2.74255, 2.4748900000000003, 2.4148400000000003, 1.7379900000000001, 2.08528, 1.24074, 2.
26646, 3.1070900000000004, 1.8010099999999998, 2.86712, 1.95335, 1.89894, 1.59541, 1.7393
299999999998, 2.21126, 2.61955, 2.025179999999998, 2.237409999999997, 1.885409999999999
8, 2.18896]

Mean absolute error:- 0.000251545313897239
Mean squared error:- 9.181392314181592e-08
Root mean squared error:- 0.0003030081238874891
r2 Score:- 0.9999995174237778

At random state 609 the model performs very well
At random state 609
Training score is
0.999999720871227
Predicted value is [1.46168925 1.95248371 2.59442819 2.12509838 1.94269477 2.50959825
2.46556388 1.68160169 2.43853856 2.70216403 2.53340028 2.11810615
0.65458744 2.06397036 1.93120457 1.76151884 1.21366744 1.68434366
1.88965125 1.86967369 2.11555788 2.67620996 3.05123932 3.17762871
1.59582369 2.8576373 2.41451752 1.86610129 2.21125651 2.23771191] and Actual value is [
1.46181, 1.9521, 2.5945, 2.12466, 1.942959999999998, 2.51011, 2.4657, 1.68135, 2.43872,
2.70201, 2.5332, 2.11773, 0.654289999999999, 2.06367, 1.9312900000000002, 1.76145, 1.213
05, 1.68435, 1.889309999999998, 1.8698400000000002, 2.1156900000000003, 2.67585, 3.05137
, 3.17728, 1.59541, 2.85737, 2.414840000000003, 1.86565, 2.21126, 2.237409999999997]

Mean absolute error:- 0.0002568793598700695
Mean squared error:- 8.849055295433293e-08
Root mean squared error:- 0.00029747361724081166
r2 Score:- 0.9999996885067515

At random state 610 the model performs very well
At random state 610
Training score is
0.9999997038689713
Predicted value is [2.23229901 1.24119085 0.99847969 1.41713921 2.24711802 2.46558913

1.88963796 3.26045914 3.60189149 1.92337754 2.18862715 1.73834174
2.11554087 1.87662229 2.79884366 1.69487347 1.46500613 2.5099241
2.44216059 2.75461072 0.98169776 1.95593417 2.24711515 1.87868703
2.31978311 1.94271891 3.10736881 1.85106269 2.86700052 1.94940606] and Actual value is [
2.2327, 1.24074, 0.99895, 1.41723, 2.24743, 2.4657, 1.8893099999999998, 3.26001, 3.602140
0000000003, 1.92313, 2.18896, 1.73797, 2.1156900000000003, 1.8763400000000001, 2.79832, 1
.6944, 1.46494, 2.51009, 2.44191, 2.75414, 0.98195, 1.9563700000000002, 2.24729, 1.87877,
2.31945, 1.9429599999999998, 3.1070900000000004, 1.851, 2.86712, 1.9493900000000002]

Mean absolute error:- 0.000273085993878804

Mean squared error:- 9.52444907202221e-08

Root mean squared error:- 0.0003086170616155598

r2 Score:- 0.9999997470489602

At random state 611 the model performs very well

At random state 611

Training score is

0.9999997331546673

Predicted value is [2.31975579 1.5957798 2.83599629 2.04405947 1.73837183 2.00082345
2.44848145 2.23234736 1.63811125 1.88534261 2.13142772 2.49212418
2.06388485 2.89320774 1.57035165 1.88956263 1.73928171 2.27412596
3.17762577 1.59898824 1.86608768 2.37164779 1.96977316 2.48657605
2.41456436 1.75334589 2.09028308 3.26050332 3.10712516 1.79312958] and Actual value is [
2.31945, 1.59541, 2.8360000000000003, 2.0438400000000003, 1.73797, 2.00073, 2.44876, 2.23
27, 1.63794, 1.885009999999999, 2.1309, 2.4920400000000003, 2.06367, 2.89319, 1.57059, 1
.8893099999999998, 1.7393299999999998, 2.27394, 3.17728, 1.59927, 1.86565, 2.371190000000
0004, 1.9699400000000002, 2.48676, 2.4148400000000003, 1.7536, 2.090659999999997, 3.2600
1, 3.10712, 1.79293]

Mean absolute error:- 0.00025257816787848476

Mean squared error:- 8.359134351730875e-08

Root mean squared error:- 0.00028912167597277926

r2 Score:- 0.999999631097661

At random state 612 the model performs very well

At random state 612

Training score is

0.9999997459226766

Predicted value is [3.03477337 2.44215522 2.51749194 2.84822675 1.75334371 0.89932364
3.19099686 2.20785498 1.69480266 1.88500908 2.59434642 1.87881348
2.4323645 3.17757449 1.68422777 2.79060539 1.87960926 1.61617044
1.80026979 2.4651596 2.0997004 2.32373942 2.46562488 1.7613795
1.7379794 1.88522586 2.0901556 1.21347496 1.59851245 2.4144894] and Actual value is [
3.035, 2.44191, 2.5173799999999997, 2.84848, 1.7536, 0.89991, 3.1913099999999996, 2.20857
, 1.6944, 1.8854099999999998, 2.5945, 1.87877, 2.43209, 3.17728, 1.68435, 2.79094, 1.8799
599999999999, 1.6158299999999999, 1.8010099999999998, 2.4653099999999997, 2.10017, 2.3240
7, 2.4657, 1.76145, 1.7379900000000001, 1.8850099999999999, 2.090659999999997, 1.21305,
1.5988799999999999, 2.4148400000000003]

Mean absolute error:- 0.0003045294202716264

Mean squared error:- 1.244634412158365e-07

Root mean squared error:- 0.00035279376584037946

r2 Score:- 0.9999995836344691

At random state 613 the model performs very well

At random state 613

Training score is

0.999999725232446

Predicted value is [2.22008129 3.08882719 1.71921034 0.67149736 3.0511319 2.51765401
1.88967292 2.70219493 2.61949984 2.09980398 2.89307885 1.59572971
1.61630466 2.86686179 2.1155783 2.10998036 1.94923892 1.21369224
2.80737014 1.94262706 1.63324149 1.87872248 2.26648012 2.766115
2.2470923 2.30870487 2.00076344 1.83340826 1.86614237 2.02503189] and Actual value is [
2.21978, 3.08854, 1.7195599999999998, 0.67108, 3.05137, 2.51767, 1.8893099999999998, 2.70
201, 2.61955, 2.10017, 2.89319, 1.59541, 1.6158299999999999, 2.86712, 2.1156900000000003,
2.11032, 1.9493900000000002, 1.21305, 2.8079099999999997, 1.9429599999999998, 1.633279999
9999998, 1.87877, 2.26646, 2.76579, 2.24743, 2.30919, 2.00073, 1.83302, 1.86565, 2.025179
9999999998]

Mean absolute error:- 0.00027236541592235987
Mean squared error:- 1.0254681476327678e-07
Root mean squared error:- 0.0003202293159023339
r2 Score:- 0.9999996521840396

At random state 614 the model performs very well
At random state 614
Training score is
0.9999997085724972

Predicted value is [2.11561289 2.27553124 2.12375928 1.34729042 2.32308642 2.1250965
2.46517063 3.19114692 3.05123842 0.89935595 1.73796562 2.11812074
3.17766531 2.24627944 2.47500994 1.96943124 3.26051895 1.92343169
1.41717767 1.58825815 2.50991269 1.78521817 1.63333468 2.02481697
2.82369349 1.86608366 1.57034067 2.09976661 1.42781814 1.75336163] and Actual value is [
2.1156900000000003, 2.27513, 2.12367, 1.34759, 2.32323, 2.12466, 2.4653099999999997, 3.19
13099999999996, 3.05137, 0.89991, 1.7379900000000001, 2.11773, 3.17728, 2.2463900000000000
3, 2.4748900000000003, 1.9696099999999999, 3.26001, 1.92313, 1.41723, 1.58782, 2.51009, 1
.78555, 1.633279999999998, 2.025, 2.82334, 1.86565, 1.57059, 2.10017, 1.42766, 1.7536]

Mean absolute error:- 0.0002509801560460175
Mean squared error:- 8.496455893161393e-08
Root mean squared error:- 0.00029148680747439316
r2 Score:- 0.9999997402088774

At random state 615 the model performs very well
At random state 615
Training score is
0.9999997477355419

Predicted value is [2.09971331 1.46507872 2.50992762 1.78529098 1.8003076 1.87964824
2.02479915 1.73927352 1.95285302 0.89941139 0.67148991 2.59438177
2.26425733 1.95837746 2.76609973 2.44214151 1.86434366 1.63818245
2.85765137 1.21362974 2.24626817 1.69480514 2.26650743 1.26502023
1.94270609 1.62254432 2.32134646 2.30875445 1.95598501 1.86612001] and Actual value is [
2.10017, 1.46494, 2.51009, 1.78555, 1.801009999999998, 1.8799599999999999, 2.025, 1.7393
299999999998, 1.95335, 0.89991, 0.67108, 2.5945, 2.26425, 1.95812, 2.76579, 2.44191, 1.86
399, 1.63794, 2.85737, 1.21305, 2.2463900000000003, 1.6944, 2.26646, 1.26462, 1.942959999
999998, 1.62215, 2.3214200000000003, 2.30919, 1.9563700000000002, 1.86565]

Mean absolute error:- 0.00030207409586990495
Mean squared error:- 1.1911857168673227e-07
Root mean squared error:- 0.0003451355844979365
r2 Score:- 0.99999951710697

At random state 616 the model performs very well
At random state 616
Training score is
0.9999997126211048

Predicted value is [1.88955544 2.02496285 2.11559873 1.59579093 1.87877216 2.43246942
1.95845692 3.05122361 1.59859827 1.57162102 2.32380521 3.19111988
2.83596388 2.12375274 2.51756481 2.80738517 0.89940669 1.87662526
0.99847028 1.73836234 1.94269565 2.4519003 2.09027792 3.17759399
2.74277405 1.21357399 1.85107207 2.18862941 2.61960581 2.44846334] and Actual value is [
1.889309999999998, 2.025179999999998, 2.1156900000000003, 1.59541, 1.87877, 2.43209, 1.
95812, 3.05137, 1.5988799999999999, 1.5714, 2.32407, 3.1913099999999996, 2.836000000000000
03, 2.12367, 2.5173799999999997, 2.807909999999997, 0.89991, 1.8763400000000001, 0.99895
, 1.73797, 1.942959999999998, 2.451759999999997, 2.090659999999997, 3.17728, 2.74255,
1.21305, 1.851, 2.18896, 2.61955, 2.44876]

Mean absolute error:- 0.0002616783807841916
Mean squared error:- 8.91745390242774e-08
Root mean squared error:- 0.00029862106259317576
r2 Score:- 0.9999997361103913

At random state 617 the model performs very well
At random state 617
Training score is
0.9999997309321167

Predicted value is [2.02484635 1.96975039 2.23768164 2.12372263 0.98172898 2.11355202

1.9525322 1.57034046 2.49206161 1.89856225 3.10738738 1.88528725
1.46503822 1.95597475 1.94935258 1.9584524 2.67620593 2.0639081
2.08477379 2.51752352 2.27548293 1.88958115 1.95071546 2.00076808
0.99841344 2.18864298 1.42780312 1.46171703 1.63811723 2.82365109] and Actual value is [
2.025, 1.9699400000000002, 2.2374099999999997, 2.12367, 0.98195, 2.1139900000000003, 1.95
21, 1.57059, 2.4920400000000003, 1.89894, 3.1070900000000004, 1.8850099999999999, 1.46494
, 1.9563700000000002, 1.9493900000000002, 1.95812, 2.67585, 2.06367, 2.08528, 2.517379999
999997, 2.27513, 1.889309999999998, 1.95071, 2.00073, 0.99895, 2.18896, 1.42766, 1.4618
1, 1.63794, 2.82334]

Mean absolute error:- 0.0002444970637031566

Mean squared error:- 8.058603410667192e-08

Root mean squared error:- 0.0002838767938854318

r2 Score:- 0.9999996210575361

At random state 618 the model performs very well

At random state 618

Training score is

0.9999997055990918

Predicted value is [1.95292609 2.61952011 2.24712211 1.76150419 1.75339767 2.46560578
2.09975452 1.95077011 1.85999812 1.46184928 2.02482324 1.79315484
1.92337839 2.02495093 1.97552248 1.94272628 1.87662709 2.53341649
2.08472732 1.46509515 1.24119187 1.88525055 0.67149654 2.44677313
1.86431431 1.63817245 1.38099724 0.65457264 2.20147832 2.86698822] and Actual value is [
1.95335, 2.61955, 2.24729, 1.76145, 1.7536, 2.4657, 2.10017, 1.95071, 1.8604, 1.46181, 2.
025, 1.79293, 1.92313, 2.025179999999998, 1.9757, 1.942959999999998, 1.8763400000000001
, 2.5332, 2.08528, 1.46494, 1.24074, 1.885009999999999, 0.67108, 2.446490000000003, 1.8
6399, 1.63794, 1.38079, 0.654289999999999, 2.20173, 2.86712]

Mean absolute error:- 0.00024043667665976838

Mean squared error:- 7.400752077843805e-08

Root mean squared error:- 0.00027204323328919257

r2 Score:- 0.999999686046268

At random state 619 the model performs very well

At random state 619

Training score is

0.9999997472886668

Predicted value is [1.6816235 2.74277898 2.46553961 1.41719509 2.86701299 2.05120074
2.21118355 2.76616646 1.21363465 2.24193941 2.27405999 1.85989308
2.11346853 2.67774178 1.6483657 2.02496485 1.94272619 2.44683174
1.61615674 2.79895534 1.59860961 2.24709784 2.20137989 2.04401281
1.46182732 2.06397956 2.18862545 2.23227833 2.59437994 1.79315338] and Actual value is [
1.68135, 2.74255, 2.4657, 1.41723, 2.86712, 2.05125, 2.21126, 2.76579, 1.21305, 2.24173,
2.27394, 1.8604, 2.113990000000003, 2.67782, 1.6488, 2.025179999999998, 1.942959999999
998, 2.446490000000003, 1.615829999999999, 2.79832, 1.598879999999999, 2.24729, 2.2017
3, 2.043840000000003, 1.46181, 2.06367, 2.18896, 2.2327, 2.5945, 1.79293]

Mean absolute error:- 0.0002642229275046167

Mean squared error:- 9.600369111337525e-08

Root mean squared error:- 0.00030984462414793525

r2 Score:- 0.9999994848101569

At random state 620 the model performs very well

At random state 620

Training score is

0.9999997463809723

Predicted value is [1.95074199 1.79312523 1.88527917 2.09977905 2.41454388 2.44682028
1.94271408 2.00079422 2.23773461 1.6484362 2.26650417 1.87879809
1.622571 1.24116867 2.20792482 1.61624725 1.89858473 1.86429526
1.34737008 2.37160108 1.63814442 2.22003208 2.51753575 1.85108199
1.71926765 1.46507557 2.06386376 2.74280857 2.59440045 3.19110023] and Actual value is [
1.95071, 1.79293, 1.885009999999999, 2.10017, 2.414840000000003, 2.446490000000003, 1.
942959999999998, 2.00073, 2.237409999999997, 1.6488, 2.26646, 1.87877, 1.62215, 1.24074
, 2.20857, 1.615829999999999, 1.89894, 1.86399, 1.34759, 2.371190000000004, 1.63794, 2.
21978, 2.517379999999997, 1.851, 1.719559999999998, 1.46494, 2.06367, 2.74255, 2.5945,
3.191309999999996]

Mean absolute error:- 0.00025573271418775077

Mean squared error:- 8.509497738481074e-08
Root mean squared error:- 0.0002917104341377091
r2 Score:- 0.9999995233064578

At random state 621 the model performs very well
At random state 621
Training score is
0.9999997059841841

Predicted value is [1.87968667 2.00081985 1.85109433 2.10994686 2.22005445 2.26641952
2.5392057 3.19110908 3.26043147 1.26501848 3.60184188 2.76614826
2.61949707 2.26416516 2.51745505 2.12376549 3.10710171 1.62259991
1.88501741 1.64836629 2.79072924 2.2754751 2.45182003 1.84414204
1.21357673 1.7852268 1.83342503 2.23231557 2.27413584 2.43857148] and Actual value is [
1.8799599999999999, 2.00073, 1.851, 2.11032, 2.21978, 2.26646, 2.5394200000000002, 3.1913
099999999996, 3.26001, 1.26462, 3.6021400000000003, 2.76579, 2.61955, 2.26425, 2.51737999
99999997, 2.12367, 3.10712, 1.62215, 1.8854099999999998, 1.6488, 2.79094, 2.27513, 2.4517
599999999997, 1.84408, 1.21305, 1.78555, 1.83302, 2.2327, 2.27394, 2.43872]

Mean absolute error:- 0.00024338795661897893
Mean squared error:- 8.142275912310405e-08
Root mean squared error:- 0.00028534673490878434
r2 Score:- 0.9999997366926868

At random state 622 the model performs very well
At random state 622
Training score is
0.9999997095705874

Predicted value is [1.78525884 3.60181013 2.44218368 2.05106514 2.32375276 2.47495619
1.95844677 1.68156368 3.08883324 1.59570983 2.46514412 3.03481443
2.31979261 1.46508511 1.7383198 1.92340586 2.63441268 2.2418321
2.84824264 2.43856676 1.86430749 1.76142907 2.10999953 2.26421739
2.22003317 1.95598025 2.24712355 2.32309527 1.42786022 2.50989946] and Actual value is [
1.78555, 3.6021400000000003, 2.44191, 2.05125, 2.32407, 2.4748900000000003, 1.95812, 1.68
135, 3.08854, 1.59541, 2.4653099999999997, 3.035, 2.31945, 1.46494, 1.73797, 1.92313, 2.6
343, 2.24173, 2.84848, 2.43872, 1.86399, 1.76145, 2.11032, 2.26425, 2.21978, 1.9563700000
000002, 2.24729, 2.32323, 1.42766, 2.51009]

Mean absolute error:- 0.00022310322348500684
Mean squared error:- 5.936873218263225e-08
Root mean squared error:- 0.00024365699699091805
r2 Score:- 0.9999997504878879

At random state 623 the model performs very well
At random state 623
Training score is
0.9999997266067154

Predicted value is [2.85764748 2.00077624 3.17762466 2.84827625 1.46507336 1.97545341
2.13136627 2.02492826 2.67777237 2.74281476 1.9559611 1.89856017
2.20150884 2.26421142 2.12374024 2.41451194 1.79314863 1.8788045
1.71927416 2.32133636 1.68156666 2.45366244 2.47498818 2.59439629
2.49202192 2.21998947 1.9529149 1.99178535 2.32305155 1.85106368] and Actual value is [
2.85737, 2.00073, 3.17728, 2.84848, 1.46494, 1.9757, 2.1309, 2.02517999999998, 2.67782,
2.74255, 1.9563700000000002, 1.89894, 2.20173, 2.26425, 2.12367, 2.4148400000000003, 1.79
293, 1.87877, 1.719559999999998, 2.3214200000000003, 1.68135, 2.4537299999999997, 2.4748
900000000003, 2.5945, 2.4920400000000003, 2.21978, 1.95335, 1.9917200000000002, 2.32323,
1.851]

Mean absolute error:- 0.00019360395995270027
Mean squared error:- 5.4296198708076076e-08
Root mean squared error:- 0.00023301544735934585
r2 Score:- 0.9999996458529763

At random state 624 the model performs very well
At random state 624
Training score is
0.9999997460145787

Predicted value is [2.23773648 2.30871632 1.24117557 2.32305863 1.88529255 1.97547201
2.05109852 1.87883847 0.67145936 2.79064143 2.11814128 2.46557296]

2.86701407 1.61621344 2.22002221 2.45185409 1.87970149 1.9584857
2.67774756 1.64837974 2.20794454 1.38097784 2.1250757 2.27410684
1.89859638 2.08479123 1.59581463 2.06385952 2.24627862 3.0348258] and Actual value is [
2.2374099999999997, 2.30919, 1.24074, 2.32323, 1.8850099999999999, 1.9757, 2.05125, 1.878
77, 0.67108, 2.79094, 2.11773, 2.4657, 2.86712, 1.6158299999999999, 2.21978, 2.4517599999
999997, 1.8799599999999999, 1.95812, 2.67782, 1.6488, 2.20857, 1.38079, 2.12466, 2.27394,
1.89894, 2.08528, 1.59541, 2.06367, 2.2463900000000003, 3.035]

Mean absolute error:- 0.0002801464001790451

Mean squared error:- 9.875144279266252e-08

Root mean squared error:- 0.0003142474228894527

r2 Score:- 0.9999995714957713

At random state 625 the model performs very well

At random state 625

Training score is

0.9999997249001279

Predicted value is [2.41446061 1.59573533 1.68428573 2.3237946 1.63810745 1.95250989

1.83358479 2.26643464 2.43246976 3.08880552 0.67145396 1.85996419

1.96966207 1.86607506 1.96938559 2.47495259 1.24126156 2.20143379

1.21366066 3.03484995 1.41720386 1.64841236 1.38102809 1.8696738

2.0640388 2.67620206 1.42786775 2.11008054 2.11549659 1.94941414] and Actual value is [

2.4148400000000003, 1.59541, 1.68435, 2.32407, 1.63794, 1.9521, 1.83302, 2.26646, 2.43209

, 3.08854, 0.67108, 1.8604, 1.9699400000000002, 1.86565, 1.9696099999999999, 2.47489000000

000003, 1.24074, 2.20173, 1.21305, 3.035, 1.41723, 1.6488, 1.38079, 1.8698400000000002, 2

.06367, 2.67585, 1.42766, 2.11032, 2.1156900000000003, 1.9493900000000002]

Mean absolute error:- 0.00028130229321524645

Mean squared error:- 1.030336405271275e-07

Root mean squared error:- 0.00032098853644192265

r2 Score:- 0.999999617277977

At random state 626 the model performs very well

At random state 626

Training score is

0.9999997324075852

Predicted value is [2.10999393 2.79874683 1.97543985 1.88958118 1.84412064 2.30876011

2.11816082 2.46513987 1.99183631 1.8787825 2.44849237 1.69486649

2.89325259 0.9817317 2.51774058 1.88529302 1.86605336 2.79068848

1.38093098 2.02487229 1.64834025 2.27552736 3.19108747 1.61616097

1.59581421 2.18859278 2.83594559 2.76616881 1.46507527 1.88500393] and Actual value is [

2.11032, 2.79832, 1.9757, 1.889309999999998, 1.84408, 2.30919, 2.11773, 2.465309999999999

97, 1.9917200000000002, 1.87877, 2.44876, 1.6944, 2.89319, 0.98195, 2.51767, 1.885009999999999

999999, 1.86565, 2.79094, 1.38079, 2.025, 1.6488, 2.27513, 3.1913099999999996, 1.61582999

99999999, 1.59541, 2.18896, 2.8360000000000003, 2.76579, 1.46494, 1.8854099999999998]

Mean absolute error:- 0.0002644426514375945

Mean squared error:- 8.962190232865e-08

Root mean squared error:- 0.0002993691739786346

r2 Score:- 0.999999648325931

At random state 627 the model performs very well

At random state 627

Training score is

0.9999997447534509

Predicted value is [1.85116693 2.13142045 1.84415511 1.95853225 1.88529982 1.26494551

1.94941163 2.76617313 1.73798208 2.00082516 2.41452243 2.22004128

2.11559585 2.89324705 3.05128609 1.80046441 2.04409137 1.88499727

2.79066901 1.95253798 2.12508515 2.67776302 2.86712222 1.57167459

1.87883032 2.26427079 2.44686845 2.79878875 2.37160116 1.59903077] and Actual value is [

1.851, 2.1309, 1.84408, 1.95812, 1.8850099999999999, 1.26462, 1.9493900000000002, 2.76579

, 1.7379900000000001, 2.00073, 2.4148400000000003, 2.21978, 2.1156900000000003, 2.89319,

3.05137, 1.8010099999999998, 2.0438400000000003, 1.8854099999999998, 2.79094, 1.9521, 2.1

2466, 2.67782, 2.86712, 1.5714, 1.87877, 2.26425, 2.4464900000000003, 2.79832, 2.37119000

00000004, 1.59927]

Mean absolute error:- 0.00024560546526832076

Mean squared error:- 8.860318143687136e-08

Root mean squared error:- 0.0002976628653978715

r2 Score:- 0.9999995449115645

At random state 628 the model performs very well

At random state 628

Training score is

0.9999997247234305

Predicted value is [1.73800816 3.19105477 2.23768208 2.50990563 2.24628068 1.9233892

2.79069839 2.48661716 2.00079054 0.65455848 1.34736118 2.50961257

1.87876983 1.87662953 3.60178855 1.69483101 2.51765227 2.44844216

1.85998651 1.62258281 2.63442064 1.86971439 2.43243463 2.79875786

2.20796774 2.11812845 1.61620322 2.12373441 1.8796652 1.89856097] and Actual value is [

1.7379900000000001, 3.1913099999999996, 2.2374099999999997, 2.51009, 2.2463900000000003,

1.92313, 2.79094, 2.48676, 2.00073, 0.6542899999999999, 1.34759, 2.51011, 1.87877, 1.8763

400000000001, 3.602140000000003, 1.6944, 2.51767, 2.44876, 1.8604, 1.62215, 2.6343, 1.86

9840000000002, 2.43209, 2.79832, 2.20857, 2.11773, 1.6158299999999999, 2.12367, 1.879959

9999999999, 1.89894]

Mean absolute error:- 0.00026443452238221753

Mean squared error:- 9.320097566855751e-08

Root mean squared error:- 0.0003052883483996032

r2 Score:- 0.999996993134875

At random state 629 the model performs very well

At random state 629

Training score is

0.9999997037343531

Predicted value is [2.04404084 0.99849883 2.1250444 1.86423979 1.26503515 2.30869695

2.18865466 1.92337492 2.20148832 2.21125896 2.27538423 0.65458939

2.74277307 1.21364362 3.08880805 2.08478102 2.80736666 2.22004154

2.89313165 2.3238135 1.34735356 3.60181129 1.87875876 1.46174288

2.51751396 1.96972503 1.73836017 1.84417006 2.84825494 2.23771091] and Actual value is [

2.0438400000000003, 0.99895, 2.12466, 1.86399, 1.26462, 2.30919, 2.18896, 1.92313, 2.2017

3, 2.21126, 2.27513, 0.6542899999999999, 2.74255, 1.21305, 3.08854, 2.08528, 2.8079099999

999997, 2.21978, 2.89319, 2.32407, 1.34759, 3.602140000000003, 1.87877, 1.46181, 2.51737

9999999997, 1.9699400000000002, 1.73797, 1.84408, 2.84848, 2.237409999999997]

Mean absolute error:- 0.000274769242555765

Mean squared error:- 9.751556900529391e-08

Root mean squared error:- 0.0003122748292855092

r2 Score:- 0.999997523511688

At random state 630 the model performs very well

At random state 630

Training score is

0.9999996998832769

Predicted value is [1.87879414 1.97547969 2.2470665 1.57162803 2.43241267 1.75333943

0.89937914 2.05105021 2.46559658 2.00073803 0.99839933 1.63323032

2.53918118 1.57031531 1.44419141 1.86430642 1.9310676 2.04401074

2.02495743 3.19108181 2.23238266 2.2418675 1.59893039 0.67140439

2.43849612 1.61618623 1.76141174 2.47492067 2.51747858 2.3230537] and Actual value is [

1.87877, 1.9757, 2.24743, 1.5714, 2.43209, 1.7536, 0.89991, 2.05125, 2.4657, 2.00073, 0.9

9895, 1.633279999999998, 2.539420000000002, 1.57059, 1.44395, 1.86399, 1.93129000000000

02, 2.043840000000003, 2.025179999999998, 3.191309999999996, 2.2327, 2.24173, 1.59927,

0.67108, 2.43872, 1.615829999999999, 1.76145, 2.474890000000003, 2.517379999999997, 2.

32323]

Mean absolute error:- 0.00022732175395182575

Mean squared error:- 6.916546690240678e-08

Root mean squared error:- 0.0002629932829986477

r2 Score:- 0.999997485319259

At random state 631 the model performs very well

At random state 631

Training score is

0.999999738817382

Predicted value is [2.24625276 2.46558194 2.04401407 2.26646282 1.79309139 1.78521317

2.45368832 1.88530691 2.18859249 2.48660593 2.79877276 1.59581167

1.69486937 1.73803076 2.2755098 2.63444736 2.7661661 0.99848117

2.5096035 2.32376002 2.11354076 2.74277888 2.67773439 2.05116704
2.4484952 1.84412241 1.99182794 3.19108725 1.95071881 2.09981752] and Actual value is [
2.2463900000000003, 2.4657, 2.0438400000000003, 2.26646, 1.79293, 1.78555, 2.453729999999
997, 1.8850099999999999, 2.18896, 2.48676, 2.79832, 1.59541, 1.6944, 1.7379900000000001,
2.27513, 2.6343, 2.76579, 0.99895, 2.51011, 2.32407, 2.1139900000000003, 2.74255, 2.67782
, 2.05125, 2.44876, 1.84408, 1.9917200000000002, 3.191309999999996, 1.95071, 2.10017]

Mean absolute error:- 0.00023965327771532745
Mean squared error:- 8.15115027990034e-08
Root mean squared error:- 0.00028550219403535834
r2 Score:- 0.9999995772850271

At random state 632 the model performs very well
At random state 632
Training score is
0.9999997116532436

Predicted value is [3.17763035 1.34736787 2.37158134 1.89857158 2.02485816 1.9525162
1.95844759 1.6381577 1.8696802 1.97550561 0.65447942 2.21122857
2.85763763 1.73928336 2.13136776 3.10732283 3.191094 2.46563092
1.86433202 0.99843778 2.41452163 2.44682309 1.26496469 1.61621231
2.26649192 1.75335426 1.87965949 2.84828399 1.58824799 2.0847676] and Actual value is [
3.17728, 1.34759, 2.3711900000000004, 1.89894, 2.025, 1.9521, 1.95812, 1.63794, 1.8698400
000000002, 1.9757, 0.6542899999999999, 2.21126, 2.85737, 1.7393299999999998, 2.1309, 3.10
70900000000004, 3.1913099999999996, 2.4657, 1.86399, 0.99895, 2.4148400000000003, 2.44649
00000000003, 1.26462, 1.6158299999999999, 2.26646, 1.7536, 1.8799599999999999, 2.84848, 1
.58782, 2.08528]

Mean absolute error:- 0.0002752601939250791
Mean squared error:- 9.333098532183987e-08
Root mean squared error:- 0.0003055012034703626
r2 Score:- 0.9999997380543807

At random state 633 the model performs very well
At random state 633
Training score is
0.9999997279902203

Predicted value is [2.43245737 1.68427094 1.86967892 2.11001306 1.89858409 1.87662738
2.0902743 1.5716043 1.26494487 2.11559418 2.85761576 3.10740174
1.88529458 3.08888503 2.24712663 1.4277892 1.93113112 2.24630138
2.46562771 1.99182831 1.95256706 1.95596839 1.59574556 2.74279416
1.75872795 1.88960581 2.20147173 2.76619951 1.59901677 2.59441037] and Actual value is [
2.43209, 1.68435, 1.8698400000000002, 2.11032, 1.89894, 1.8763400000000001, 2.09065999999
99997, 1.5714, 1.26462, 2.1156900000000003, 2.85737, 3.1070900000000004, 1.88500999999999
99, 3.08854, 2.24729, 1.42766, 1.9312900000000002, 2.2463900000000003, 2.4657, 1.99172000
00000002, 1.9521, 1.9563700000000002, 1.59541, 2.74255, 1.75873, 1.8893099999999998, 2.20
173, 2.76579, 1.59927, 2.5945]

Mean absolute error:- 0.00024110399848032611
Mean squared error:- 7.24209193774567e-08
Root mean squared error:- 0.0002691113512608799
r2 Score:- 0.9999996658879782

At random state 634 the model performs very well
At random state 634
Training score is
0.9999997412669424

Predicted value is [1.94943985 1.75328813 1.69487506 2.76621898 3.03487301 2.6762186
2.06399263 2.53341112 2.24712088 2.84828063 2.26646923 1.89859547
2.2323117 2.46516471 3.0889039 1.34732199 2.32130433 2.70216745
2.13139007 1.95594748 1.85108978 1.57039076 2.4518077 1.83344701
2.10999657 1.58826126 2.27412233 2.04404137 2.44690118 2.59441649] and Actual value is [
1.9493900000000002, 1.7536, 1.6944, 2.76579, 3.035, 2.67585, 2.06367, 2.5332, 2.24729, 2.
84848, 2.26646, 1.89894, 2.2327, 2.465309999999997, 3.08854, 1.34759, 2.3214200000000003
, 2.70201, 2.1309, 1.9563700000000002, 1.851, 1.57059, 2.451759999999997, 1.83302, 2.110
32, 1.58782, 2.27394, 2.0438400000000003, 2.4464900000000003, 2.5945]

Mean absolute error:- 0.00026161459852995045
Mean squared error:- 8.746925864258807e-08
Root mean squared error:- 0.0002957520222121703

r2 Score:- 0.9999995359034344

At random state 635 the model performs very well

At random state 635

Training score is

0.9999997384879573

Predicted value is [2.09976631 1.61626009 1.59897519 2.82367333 2.26643786 1.38087298

1.68158493 2.24173999 1.88962916 2.12510065 1.83334296 2.43241536

2.74282059 1.87966722 2.18862813 1.78519498 2.10987378 2.02483659

1.94268168 2.44845243 3.10725948 3.05113358 0.9818106 1.86612106

1.4171489 2.06385983 2.48658157 2.20784932 2.26416045 2.84830185] and Actual value is [

2.10017, 1.6158299999999999, 1.59927, 2.82334, 2.26646, 1.38079, 1.68135, 2.24173, 1.8893

099999999998, 2.12466, 1.83302, 2.43209, 2.74255, 1.8799599999999999, 2.18896, 1.78555, 2

.11032, 2.025, 1.942959999999998, 2.44876, 3.1070900000000004, 3.05137, 0.98195, 1.86565

, 1.41723, 2.06367, 2.48676, 2.20857, 2.26425, 2.84848]

Mean absolute error:- 0.00027066524283166175

Mean squared error:- 9.557835348011991e-08

Root mean squared error:- 0.0003091574897687583

r2 Score:- 0.9999995978582824

At random state 636 the model performs very well

At random state 636

Training score is

0.9999997368894159

Predicted value is [2.09975868 1.73923821 2.45188631 1.57159076 2.02493744 1.95843815

1.73827209 2.43853787 2.24711559 1.97547772 1.59853755 1.95251607

2.32377377 2.80745054 2.11813168 2.24626037 2.82362417 1.87963476

0.65444361 2.51750413 2.48656004 3.10731639 1.71925268 2.12372433

2.05106056 1.75332805 3.17759711 1.80034656 1.8696797 1.95597975] and Actual value is [

2.10017, 1.7393299999999998, 2.4517599999999997, 1.5714, 2.0251799999999998, 1.95812, 1.7

3797, 2.43872, 2.24743, 1.9757, 1.5988799999999999, 1.9521, 2.32407, 2.8079099999999997,

2.11773, 2.2463900000000003, 2.82334, 1.8799599999999999, 0.6542899999999999, 2.517379999

9999997, 2.48676, 3.1070900000000004, 1.7195999999999998, 2.12367, 2.05125, 1.7536, 3.177

28, 1.8010099999999998, 1.8698400000000002, 1.9563700000000002]

Mean absolute error:- 0.00027049885710278554

Mean squared error:- 8.909386687554228e-08

Root mean squared error:- 0.00029848595758518066

r2 Score:- 0.9999996327253331

At random state 637 the model performs very well

At random state 637

Training score is

0.9999997487972114

Predicted value is [1.86964445 1.63336039 2.20785581 3.03481514 1.95254622 1.96971033

2.22001429 2.82364384 1.97544024 1.75869514 1.57157161 1.87879688

1.95597315 1.94274656 2.32373932 1.79308361 2.5943933 2.79068095

2.09021159 1.86005961 2.09974022 3.19104739 2.0249298 2.75455483

1.99184456 2.7021148 1.71925372 2.32307895 1.86607007 1.92341955] and Actual value is [

1.8698400000000002, 1.6332799999999998, 2.20857, 3.035, 1.9521, 1.9699400000000002, 2.219

78, 2.82334, 1.9757, 1.75873, 1.5714, 1.87877, 1.9563700000000002, 1.9429599999999998, 2.

32407, 1.79293, 2.5945, 2.79094, 2.090659999999997, 1.8604, 2.10017, 3.1913099999999996,

2.0251799999999998, 2.75414, 1.9917200000000002, 2.70201, 1.7195599999999998, 2.32323, 1.

86565, 1.92313]

Mean absolute error:- 0.00026283266258422995

Mean squared error:- 9.033574951848327e-08

Root mean squared error:- 0.0003005590616143244

r2 Score:- 0.9999994914016797

At random state 638 the model performs very well

At random state 638

Training score is

0.9999997277139013

Predicted value is [2.32312166 1.87873808 1.73797575 1.7852213 3.08889503 2.75459881

1.94272959 2.46560433 0.89935834 3.10734696 1.87661906 2.20787476

1.89857104 3.19111931 1.75334628 2.46516384 1.86431441 2.67781255

2.09975686 2.76617955 2.41452079 1.92340021 1.68425218 2.82368385
1.21350972 2.04395738 2.10991492 2.32130993 2.70218701 1.79306214] and Actual value is [
2.32323, 1.87877, 1.7379900000000001, 1.78555, 3.08854, 2.75414, 1.9429599999999998, 2.46
57, 0.89991, 3.1070900000000004, 1.8763400000000001, 2.20857, 1.89894, 3.1913099999999996
, 1.7536, 2.4653099999999997, 1.86399, 2.67782, 2.10017, 2.76579, 2.4148400000000003, 1.9
2313, 1.68435, 2.82334, 1.21305, 2.0438400000000003, 2.11032, 2.3214200000000003, 2.70201
, 1.79293]

Mean absolute error:- 0.00026442095407566886
Mean squared error:- 9.633956041166746e-08
Root mean squared error:- 0.00031038614726122595
r2 Score:- 0.9999996633087891

At random state 639 the model performs very well

At random state 639

Training score is

0.999997054990685

Predicted value is [2.20153964 3.17763704 2.86698413 2.09976001 2.43241911 1.95289628
3.60184109 3.03485853 0.98180553 2.24179113 1.94926577 2.11558081
3.05120089 1.58827644 2.24707886 1.46171562 1.73798387 2.18867271
2.22002406 1.88500848 2.63443171 1.88957725 2.75453531 2.32307008
1.44418511 1.8441684 2.48654942 2.08473725 1.61624905 1.99175654] and Actual value is [
2.20173, 3.17728, 2.86712, 2.10017, 2.43209, 1.95335, 3.6021400000000003, 3.035, 0.98195,
2.24173, 1.9493900000000002, 2.1156900000000003, 3.05137, 1.58782, 2.24743, 1.46181, 1.73
79900000000001, 2.18896, 2.21978, 1.8854099999999998, 2.6343, 1.8893099999999998, 2.75414
, 2.32323, 1.44395, 1.84408, 2.48676, 2.08528, 1.6158299999999999, 1.9917200000000002]

Mean absolute error:- 0.00024173912162755255

Mean squared error:- 7.826088329401794e-08

Root mean squared error:- 0.00027975146700959035

r2 Score:- 0.999997525571914

At random state 640 the model performs very well

At random state 640

Training score is

0.999997351774688

Predicted value is [2.32305583 1.63807935 2.49196317 2.51764535 2.46511995 1.9917653
2.20147633 2.27412848 2.084736 2.59437632 2.32372912 2.46553241
2.63443034 2.09973784 2.70210293 1.61620475 1.68427559 1.41718907
1.73924517 2.23229953 2.74277074 2.10990945 2.80739051 1.75868011
1.76140147 1.92339497 2.79070466 0.89940761 2.50958433 1.96965943] and Actual value is [
2.32323, 1.63794, 2.4920400000000003, 2.51767, 2.465309999999997, 1.9917200000000002, 2.
20173, 2.27394, 2.08528, 2.5945, 2.32407, 2.4657, 2.6343, 2.10017, 2.70201, 1.61582999999
9999, 1.68435, 1.41723, 1.7393299999999998, 2.2327, 2.74255, 2.11032, 2.8079099999999997
, 1.75873, 1.76145, 1.92313, 2.79094, 0.89991, 2.51011, 1.9699400000000002]

Mean absolute error:- 0.00023192018966394407

Mean squared error:- 8.008221194523444e-08

Root mean squared error:- 0.0002829880067162466

r2 Score:- 0.999996028443675

At random state 641 the model performs very well

At random state 641

Training score is

0.999997369537825

Predicted value is [1.84417496 2.24633961 2.43245056 1.6333136 2.75457669 2.79067667
1.73833512 2.46558881 1.38101787 2.50963703 2.24186523 0.6715151
2.46513299 1.86435115 1.61625504 1.86611687 2.86701235 1.6949169
1.73934699 1.21360309 2.22008158 2.12379203 1.96975339 2.80741582
1.95256021 2.02491991 1.86968893 2.32376365 2.11814914 3.10731952] and Actual value is [
1.84408, 2.2463900000000003, 2.43209, 1.6332799999999998, 2.75414, 2.79094, 1.73797, 2.46
57, 1.38079, 2.51011, 2.24173, 0.67108, 2.465309999999997, 1.86399, 1.6158299999999999,
1.86565, 2.86712, 1.6944, 1.7393299999999998, 1.21305, 2.21978, 2.12367, 1.969940000000000
02, 2.8079099999999997, 1.9521, 2.025, 1.8698400000000002, 2.32407, 2.11773, 3.1070900000
000004]

Mean absolute error:- 0.00027875020505758373

Mean squared error:- 1.0416998468354871e-07

Root mean squared error:- 0.00032275375239266966

r2 Score:- 0.999999616654135

At random state 642 the model performs very well

At random state 642

Training score is

0.9999996978214484

Predicted value is [1.73798194 2.21120682 1.86426389 0.89935943 2.84826771 1.75333342

2.26422381 1.46168426 1.46502989 2.50987246 2.46514161 2.02494271

2.27404999 2.74280132 2.86701942 1.95070739 1.96971273 2.12501288

2.32379896 2.26646067 2.49200881 0.99838702 2.67775291 2.08472445

2.63442666 2.43850142 2.80744544 1.59891875 1.93108632 0.65444505] and Actual value is [

1.7379900000000001, 2.21126, 1.86399, 0.89991, 2.84848, 1.7536, 2.26425, 1.46181, 1.46494

, 2.51009, 2.4653099999999997, 2.0251799999999998, 2.27394, 2.74255, 2.86712, 1.95071, 1.

9699400000000002, 2.12466, 2.32407, 2.26646, 2.4920400000000003, 0.99895, 2.67782, 2.0852

8, 2.6343, 2.43872, 2.8079099999999997, 1.59927, 1.9312900000000002, 0.6542899999999999]

Mean absolute error:- 0.00020941811740878466

Mean squared error:- 6.961130877879877e-08

Root mean squared error:- 0.00026383955120261776

r2 Score:- 0.999997817859257

At random state 643 the model performs very well

At random state 643

Training score is

0.999997177213208

Predicted value is [1.95075472 3.03482607 2.18865556 1.59855958 2.53916823 1.92339103

2.09977265 1.8441087 2.24707369 1.86002622 2.26416298 2.4324361

3.60181389 1.95296628 2.61948421 1.9693902 1.5716516 2.37150119

3.26044665 2.05100676 2.11352212 2.83597012 2.27415231 2.46512039

3.08885116 2.84826466 2.27544316 1.24117375 2.12377235 2.10991545] and Actual value is [

1.95071, 3.035, 2.18896, 1.5988799999999999, 2.5394200000000002, 1.92313, 2.10017, 1.8440

8, 2.24743, 1.8604, 2.26425, 2.43209, 3.6021400000000003, 1.95335, 2.61955, 1.969609999999

99999, 1.5714, 2.3711900000000004, 3.26001, 2.05125, 2.1139900000000003, 2.8360000000000000

03, 2.27394, 2.4653099999999997, 3.08854, 2.84848, 2.27513, 1.24074, 2.12367, 2.11032]

Mean absolute error:- 0.0002621218848888773

Mean squared error:- 8.44142706171741e-08

Root mean squared error:- 0.00029054134063360776

r2 Score:- 0.999996767699533

At random state 644 the model performs very well

At random state 644

Training score is

0.999997260790114

Predicted value is [2.21120929 2.46511799 1.97541834 1.88521168 2.82366803 1.62255868

1.63331647 2.26641774 1.68427434 2.11552879 2.23230484 2.51769993

1.96963245 2.76613934 2.32377677 1.46506513 2.74280619 2.4749925

1.79313062 2.4655203 2.7545649 2.08475163 1.21361115 2.86698468

2.41448438 2.02493789 1.73802277 1.41720831 3.10708865 2.09032076] and Actual value is [

2.21126, 2.4653099999999997, 1.9757, 1.8850099999999999, 2.82334, 1.62215, 1.633279999999

9998, 2.26646, 1.68435, 2.1156900000000003, 2.2327, 2.51767, 1.9699400000000002, 2.76579,

2.32407, 1.46494, 2.74255, 2.4748900000000003, 1.79293, 2.4657, 2.75414, 2.08528, 1.21305

, 2.86712, 2.4148400000000003, 2.0251799999999998, 1.7379900000000001, 1.41723, 3.10712,

2.0906599999999997]

Mean absolute error:- 0.00022300819432739724

Mean squared error:- 7.294990374547009e-08

Root mean squared error:- 0.0002700923985332984

r2 Score:- 0.9999969520616

At random state 645 the model performs very well

At random state 645

Training score is

0.9999996976330345

Predicted value is [3.05124529 2.48656943 2.45365198 1.76143251 0.89934624 3.10732307

2.51748444 2.12372982 2.6344418 1.69480805 2.04399213 2.08472698

1.86430591 2.32131224 2.5177214 1.80034273 2.83594691 1.79310067

2.46514906 1.26492743 0.98177523 1.88500585 3.1071381 0.99838755

2.50989808 1.9233658 1.96973765 2.44850359 1.38094621 2.46560871] and Actual value is [3.05137, 2.48676, 2.4537299999999997, 1.76145, 0.89991, 3.1070900000000004, 2.5173799999999997, 2.12367, 2.6343, 1.6944, 2.0438400000000003, 2.08528, 1.86399, 2.3214200000000003, 2.51767, 1.8010099999999998, 2.8360000000000003, 1.79293, 2.4653099999999997, 1.26462, 0.98195, 1.8854099999999998, 3.10712, 0.99895, 2.51009, 1.92313, 1.9699400000000002, 2.44876, 1.38079, 2.4657]

Mean absolute error:- 0.000225160775736503

Mean squared error:- 8.048574334449581e-08

Root mean squared error:- 0.0002837000940156626

r2 Score:- 0.999997747471947

At random state 646 the model performs very well

At random state 646

Training score is

0.999997146853933

Predicted value is [1.4171453 1.84414921 2.09982809 0.65452417 1.71927857 2.32128761

2.79874013 1.69485246 1.46171727 2.05103137 2.13136688 1.86435638

2.48658925 3.08886608 1.97551861 1.87964778 2.04403826 1.93109845

2.41448191 2.30870572 2.59436114 2.79061975 1.68149568 3.60177326

1.3810294 1.63817778 1.73930847 2.11354236 2.06396943 2.1181589] and Actual value is [

1.41723, 1.84408, 2.10017, 0.6542899999999999, 1.7195999999999998, 2.3214200000000003, 2.

79832, 1.6944, 1.46181, 2.05125, 2.1309, 1.86399, 2.48676, 3.08854, 1.9757, 1.879959999999

99999, 2.0438400000000003, 1.9312900000000002, 2.4148400000000003, 2.30919, 2.5945, 2.790

94, 1.68135, 3.6021400000000003, 1.38079, 1.63794, 1.7393299999999998, 2.1139900000000003

, 2.06367, 2.11773]

Mean absolute error:- 0.00026766191589034185

Mean squared error:- 8.802562095957143e-08

Root mean squared error:- 0.00029669112045959756

r2 Score:- 0.999997153068176

At random state 647 the model performs very well

At random state 647

Training score is

0.999997186795568

Predicted value is [1.92340271 0.65448048 1.73928463 1.79315103 1.97547828 2.05114217

2.44845596 1.80040523 1.84412809 2.32377295 2.85763941 2.24187099

1.59859152 2.23231467 2.11556512 1.78525309 0.67139171 2.24713841

1.26496952 2.26646984 2.82366125 2.79886147 1.57034484 2.43246036

1.6948215 1.41721975 2.13136445 2.12373371 2.21121272 2.76615691] and Actual value is [

1.92313, 0.6542899999999999, 1.7393299999999998, 1.79293, 1.9757, 2.05125, 2.44876, 1.801

00999999999998, 1.84408, 2.32407, 2.85737, 2.24173, 1.5988799999999999, 2.2327, 2.11569000

00000003, 1.78555, 0.67108, 2.24729, 1.26462, 2.26646, 2.82334, 2.79832, 1.57059, 2.43209

, 1.6944, 1.41723, 2.1309, 2.12367, 2.21126, 2.76579]

Mean absolute error:- 0.00024980284597643233

Mean squared error:- 8.564893879380144e-08

Root mean squared error:- 0.00029265839949299495

r2 Score:- 0.999997008636736

At random state 648 the model performs very well

At random state 648

Training score is

0.999997252205239

Predicted value is [1.99181008 1.63812332 2.50994677 1.68427413 2.79882937 1.95251012

1.87659941 1.73799993 2.30872613 2.12371813 2.11556146 3.10709983

2.4144958 1.76140884 1.5989891 3.6018364 3.26044528 2.04404286

1.24115078 2.1886393 2.37158515 2.27407609 1.89855052 1.88499178

1.95850231 2.27542914 2.02485396 2.32131614 2.84823393 2.24190405] and Actual value is [

1.9917200000000002, 1.63794, 2.51009, 1.68435, 2.79832, 1.9521, 1.8763400000000001, 1.737

99000000000001, 2.30919, 2.12367, 2.1156900000000003, 3.10712, 2.4148400000000003, 1.76145

, 1.59927, 3.6021400000000003, 3.26001, 2.0438400000000003, 1.24074, 2.18896, 2.371190000

0000004, 2.27394, 1.89894, 1.8854099999999998, 1.95812, 2.27513, 2.025, 2.3214200000000000

3, 2.84848, 2.24173]

Mean absolute error:- 0.0002457304628097123

Mean squared error:- 8.169240473564794e-08

Root mean squared error:- 0.00028581883201715024

r2 Score:- 0.9999996815707894

At random state 649 the model performs very well
At random state 649
Training score is
0.9999997152275781
Predicted value is [2.82367436 3.10727583 1.87660407 1.57169698 1.63325903 2.85769112
2.13141764 1.4279225 2.43855553 2.32383304 1.88957759 2.7428375
2.89327699 1.9507813 3.08889911 2.11815457 2.24635676 1.24119784
3.19115639 2.2418457 2.04405548 2.23775129 2.12381924 2.32135632
2.02502612 2.5175186 1.86433938 2.44689721 1.95297603 2.45367056] and Actual value is [
2.82334, 3.1070900000000004, 1.8763400000000001, 1.5714, 1.6332799999999998, 2.85737, 2.1
309, 1.42766, 2.43872, 2.32407, 1.8893099999999998, 2.74255, 2.89319, 1.95071, 3.08854, 2
.11773, 2.2463900000000003, 1.24074, 3.1913099999999996, 2.24173, 2.0438400000000003, 2.2
374099999999997, 2.12367, 2.3214200000000003, 2.0251799999999998, 2.5173799999999997, 1.8
6399, 2.4464900000000003, 1.95335, 2.4537299999999997]
Mean absolute error:- 0.0002371498254351086
Mean squared error:- 7.383670042507308e-08
Root mean squared error:- 0.0002717290938141757
r2 Score:- 0.9999996900163683

At random state 650 the model performs very well
At random state 650
Training score is
0.9999997038431144
Predicted value is [2.46558128 2.37157926 2.74278615 2.00080768 1.59851539 2.67775701
2.44227545 1.95297021 0.9816808 1.97545076 2.76612321 2.23777473
3.10715886 1.64832863 1.94939095 2.09021074 2.79880047 1.73830061
2.46514647 3.03487404 2.51770902 1.86424598 2.26423851 3.05131954
2.50956917 3.08882439 2.79063708 0.67135619 2.0249412 2.11819425] and Actual value is [
2.4657, 2.3711900000000004, 2.74255, 2.00073, 1.5988799999999999, 2.67782, 2.44191, 1.953
35, 0.98195, 1.9757, 2.76579, 2.2374099999999997, 3.10712, 1.6488, 1.9493900000000002, 2.
0906599999999997, 2.79832, 1.73797, 2.4653099999999997, 3.035, 2.51767, 1.86399, 2.26425,
3.05137, 2.51011, 3.08854, 2.79094, 0.67108, 2.0251799999999998, 2.11773]
Mean absolute error:- 0.00025787899714328305
Mean squared error:- 9.042570488165275e-08
Root mean squared error:- 0.0003007086711115141
r2 Score:- 0.9999997277777778

At random state 651 the model performs very well
At random state 651
Training score is
0.9999997566682638
Predicted value is [2.82365665 3.05123049 2.00078851 1.44422452 1.93106847 2.13138229
2.18870637 1.86432155 1.57164278 2.44220376 2.08472867 1.73925698
1.59894253 2.67778654 1.94933311 1.89853396 2.02480859 1.57031781
2.27543408 1.95599054 1.58829088 1.7931689 1.63816574 2.05103325
2.50993262 1.61625649 1.86612954 2.02494754 2.2471552 2.09972158] and Actual value is [
2.82334, 3.05137, 2.00073, 1.44395, 1.9312900000000002, 2.1309, 2.18896, 1.86399, 1.5714,
2.44191, 2.08528, 1.7393299999999998, 1.59927, 2.67782, 1.9493900000000002, 1.89894, 2.02
5, 1.57059, 2.27513, 1.9563700000000002, 1.58782, 1.79293, 1.63794, 2.05125, 2.51009, 1.6
1582999999999999, 1.86565, 2.0251799999999998, 2.24729, 2.10017]
Mean absolute error:- 0.0002747146554425539
Mean squared error:- 9.397596285432078e-08
Root mean squared error:- 0.00030655499156647374
r2 Score:- 0.999999351560982

At random state 652 the model performs very well
At random state 652
Training score is
0.9999997315951018
Predicted value is [1.86964065 1.9754674 2.6344772 1.85995799 2.8932798 1.69483171
2.04395879 1.94933065 2.47497868 2.80752527 2.2471029 0.89932794
2.23766469 2.83592629 2.11554646 2.67773277 1.68420596 2.08471053
2.43851004 2.85762174 1.80031528 1.95596765 2.12500756 2.32130093]

1.96939353 1.9525266 2.74282007 0.65444216 1.73924654 1.73803797] and Actual value is [1.8698400000000002, 1.9757, 2.6343, 1.8604, 2.89319, 1.6944, 2.0438400000000003, 1.949390000000002, 2.4748900000000003, 2.8079099999999997, 2.24743, 0.89991, 2.2374099999999997, 2.8360000000000003, 2.1156900000000003, 2.67782, 1.68435, 2.08528, 2.43872, 2.85737, 1.80109999999998, 1.9563700000000002, 2.12466, 2.3214200000000003, 1.9696099999999999, 1.9521, 2.74255, 0.6542899999999999, 1.7393299999999998, 1.7379900000000001]

Mean absolute error:- 0.0002542734732498405

Mean squared error:- 9.33028612659488e-08

Root mean squared error:- 0.0003054551706322039

r2 Score:- 0.999996523049641

At random state 653 the model performs very well

At random state 653

Training score is

0.999996964819169

Predicted value is [2.20148134 2.84825158 3.60179185 1.21362979 1.4651078 2.82361974

2.76612756 2.11006647 1.94937371 1.88956975 3.03484936 2.26420867

2.24710719 1.57169862 3.17757569 2.21122765 2.30871972 1.92339538

1.63324298 2.4651228 2.83596265 2.5174675 2.41449532 2.23772205

2.11814421 1.44423143 2.49199704 2.43246433 1.96939705 2.89319547] and Actual value is [

2.20173, 2.84848, 3.6021400000000003, 1.21305, 1.46494, 2.82334, 2.76579, 2.11032, 1.949390000000002, 1.889309999999998, 3.035, 2.26425, 2.24729, 1.5714, 3.17728, 2.21126, 2.30919, 1.92313, 1.633279999999998, 2.465309999999997, 2.8360000000000003, 2.517379999999997, 2.414840000000003, 2.237409999999997, 2.11773, 1.44395, 2.4920400000000003, 2.43209, 1.969609999999999, 2.89319]

Mean absolute error:- 0.00022646463557652504

Mean squared error:- 7.168558726569308e-08

Root mean squared error:- 0.0002677416427560216

r2 Score:- 0.99999755694764

At random state 654 the model performs very well

At random state 654

Training score is

0.999997241168693

Predicted value is [1.21363514 2.12508156 2.22004694 2.11355263 0.65449261 2.46511173

1.92341968 2.09979826 2.13139489 1.95295511 2.50957707 2.61950038

2.85764794 3.26043945 2.80738342 1.8696859 1.96940243 2.49195616

2.51766851 2.26641254 2.8931723 1.59862489 2.27415704 1.97543106

1.26507201 2.32379392 2.1886551 2.76610935 0.67143206 2.06390386] and Actual value is [

1.21305, 2.12466, 2.21978, 2.1139900000000003, 0.654289999999999, 2.465309999999997, 1.92313, 2.10017, 2.1309, 1.95335, 2.51011, 2.61955, 2.85737, 3.26001, 2.807909999999997, 1.869840000000002, 1.969609999999999, 2.492040000000003, 2.51767, 2.26646, 2.89319, 1.598879999999999, 2.27394, 1.9757, 1.26462, 2.32407, 2.18896, 2.76579, 0.67108, 2.06367]

Mean absolute error:- 0.0002890377959470817

Mean squared error:- 1.0754934034610112e-07

Root mean squared error:- 0.00032794716090568784

r2 Score:- 0.99999692489265

At random state 655 the model performs very well

At random state 655

Training score is

0.999997648841851

Predicted value is [3.2604701 2.67614252 0.89932535 1.96967231 2.41449283 2.0248911

2.2754866 2.75455322 1.46171794 2.11357896 2.43245323 1.46506126

1.99183275 2.43857461 1.80037561 2.50955735 2.37157684 1.5958357

2.51776458 1.95595522 2.24713487 2.09978706 2.24622269 1.78520328

2.79075776 3.05128325 1.86968801 2.30874909 1.83346245 1.95848031] and Actual value is [

3.26001, 2.67585, 0.89991, 1.969940000000002, 2.414840000000003, 2.025179999999998, 2.27513, 2.75414, 1.46181, 2.113990000000003, 2.43209, 1.46494, 1.991720000000002, 2.43872, 1.801009999999998, 2.51011, 2.371190000000004, 1.59541, 2.51767, 1.956370000000002, 2.24743, 2.10017, 2.246390000000003, 1.78555, 2.79094, 3.05137, 1.869840000000002, 2.30919, 1.83302, 1.95812]

Mean absolute error:- 0.0003207422894715613

Mean squared error:- 1.2520217094689868e-07

Root mean squared error:- 0.000353839187975129

r2 Score:- 0.999999470124284

At random state 656 the model performs very well

At random state 656

Training score is

0.9999997528801173

Predicted value is [1.96976075 1.41721543 2.0439887 1.87963336 1.8643597 1.95844061

2.47496437 2.21117779 1.83342292 2.48664571 1.95258845 2.11356282

2.24711235 1.79313499 2.27553084 1.26493826 1.9560054 0.98180361

2.43241201 2.4385335 1.9918656 2.86708657 1.86605789 1.80035737

1.68422887 2.31986335 2.0902495 2.67774293 2.20147869 2.82364947] and Actual value is [

1.9699400000000002, 1.41723, 2.0438400000000003, 1.8799599999999999, 1.86399, 1.95812, 2.

4748900000000003, 2.21126, 1.83302, 2.48676, 1.9521, 2.1139900000000003, 2.24729, 1.79293

, 2.27513, 1.26462, 1.9563700000000002, 0.98195, 2.43209, 2.43872, 1.9917200000000002, 2.

86712, 1.86565, 1.8010099999999998, 1.68435, 2.31945, 2.0906599999999997, 2.67782, 2.2017

3, 2.82334]

Mean absolute error:- 0.0002630828301124821

Mean squared error:- 9.237576663006356e-08

Root mean squared error:- 0.00030393381949046663

r2 Score:- 0.999999460885752

At random state 657 the model performs very well

At random state 657

Training score is

0.9999997158520065

Predicted value is [1.86967965 2.30871266 2.22004867 1.46170091 1.75874134 2.48650385

1.41713602 1.38098291 0.9817742 2.50982283 2.23238087 2.43242869

2.43853198 2.32309844 2.45188618 1.95070791 2.50962265 1.99178446

1.2649986 1.73829641 1.86609116 2.09023318 2.02502185 1.95249487

2.67776695 2.05102086 2.31981915 2.59438879 3.08886021 0.67146249] and Actual value is [

1.8698400000000002, 2.30919, 2.21978, 1.46181, 1.75873, 2.48676, 1.41723, 1.38079, 0.9819

5, 2.51009, 2.2327, 2.43209, 2.43872, 2.32323, 2.4517599999999997, 1.95071, 2.51011, 1.99

17200000000002, 1.26462, 1.73797, 1.86565, 2.0906599999999997, 2.0251799999999998, 1.9521

, 2.67782, 2.05125, 2.31945, 2.5945, 3.08854, 0.67108]

Mean absolute error:- 0.00024205176502527513

Mean squared error:- 7.796466339520399e-08

Root mean squared error:- 0.0002792215310379986

r2 Score:- 0.9999997161188653

At random state 658 the model performs very well

At random state 658

Training score is

0.9999997310306629

Predicted value is [2.70221705 1.79309987 1.99180367 2.21121893 1.5882189 1.89859476

1.7533711 2.83597974 2.74285373 2.4656074 2.49198782 2.24187874

1.62254095 2.89322089 1.923372 2.08473025 2.24629145 2.3198727

2.76617913 2.12504497 2.4384722 2.26422862 1.2649844 3.10731954

2.50988461 2.24710457 0.99837598 2.51774081 1.7191945 1.95291317] and Actual value is [

2.70201, 1.79293, 1.9917200000000002, 2.21126, 1.58782, 1.89894, 1.7536, 2.83600000000000

03, 2.74255, 2.4657, 2.4920400000000003, 2.24173, 1.62215, 2.89319, 1.92313, 2.08528, 2.2

463900000000003, 2.31945, 2.76579, 2.12466, 2.43872, 2.26425, 1.26462, 3.1070900000000004

, 2.51009, 2.24729, 0.99895, 2.51767, 1.7195599999999998, 1.95335]

Mean absolute error:- 0.0002434091719041742

Mean squared error:- 8.408805224426098e-08

Root mean squared error:- 0.0002899793996894624

r2 Score:- 0.9999996353793078

At random state 659 the model performs very well

At random state 659

Training score is

0.9999997356706726

Predicted value is [2.26647001 2.48661901 1.94271246 1.9529419 1.62254287 1.46504956

1.78524881 2.49202281 2.46558663 2.43244924 1.86608091 1.96940656

2.27544166 1.73927703 2.26422491 1.8696711 2.67619523 1.68428565

1.83341849 0.89938336 1.7614489 2.00076988 2.24712105 2.67779324

2.2740899 1.86001381 2.74283503 2.23771557 2.8576652 2.05111848] and Actual value is [2.26646, 2.48676, 1.9429599999999998, 1.95335, 1.62215, 1.46494, 1.78555, 2.49204000000000003, 2.4657, 2.43209, 1.86565, 1.9696099999999999, 2.27513, 1.7393299999999998, 2.26425, 1.8698400000000002, 2.67585, 1.68435, 1.83302, 0.89991, 1.76145, 2.00073, 2.24729, 2.67782, 2.27394, 1.8604, 2.74255, 2.2374099999999997, 2.85737, 2.05125]

Mean absolute error:- 0.00021392841700348017

Mean squared error:- 6.814090284840848e-08

Root mean squared error:- 0.00026103812527753195

r2 Score:- 0.9999996108169175

At random state 660 the model performs very well

At random state 660

Training score is

0.9999997128775605

Predicted value is [1.866105 0.67148729 0.65458036 2.24630067 2.45366965 1.69485223 1.59577887 1.58830548 2.84824483 2.31977139 2.44847368 2.86699129 2.23234201 2.12508033 2.32309143 2.20150605 1.89861172 2.04404423 1.8697107 2.50960741 2.43856161 2.11559607 3.10707679 3.26040775 2.44216939 1.95300272 1.44422091 1.62260607 2.76612728 1.46510453] and Actual value is [1.86565, 0.67108, 0.6542899999999999, 2.2463900000000003, 2.4537299999999997, 1.6944, 1.59541, 1.58782, 2.84848, 2.31945, 2.44876, 2.86712, 2.2327, 2.12466, 2.32323, 2.20173, 1.89894, 2.0438400000000003, 1.8698400000000002, 2.51011, 2.43872, 2.1156900000000003, 3.10712, 3.26001, 2.44191, 1.95335, 1.44395, 1.62215, 2.76579, 1.46494]

Mean absolute error:- 0.00028048255510721245

Mean squared error:- 9.664424465832719e-08

Root mean squared error:- 0.0003108765746374712

r2 Score:- 0.9999997314167863

At random state 661 the model performs very well

At random state 661

Training score is

0.9999997535821448

Predicted value is [2.7907044 2.20788288 2.24626121 1.94930916 2.43849921 1.68154088 2.08472265 1.46506889 1.68425941 2.37158158 2.0249425 1.8643535 2.41451599 2.11561568 2.49202923 2.32308619 2.27551623 2.26649704 2.74282526 1.88523761 2.59438772 1.8600241 2.13132447 1.9427332 2.31986872 2.84828059 1.42786056 2.85763028 1.87963358 2.75451155] and Actual value is [2.79094, 2.20857, 2.2463900000000003, 1.9493900000000002, 2.43872, 1.68135, 2.08528, 1.46494, 1.68435, 2.3711900000000004, 2.0251799999999998, 1.86399, 2.4148400000000003, 2.1156900000000003, 2.4920400000000003, 2.32323, 2.27513, 2.26646, 2.74255, 1.8850099999999999, 2.5945, 1.8604, 2.1309, 1.9429599999999998, 2.31945, 2.84848, 1.42766, 2.85737, 1.879959999999999, 2.75414]

Mean absolute error:- 0.00025696232788412486

Mean squared error:- 8.919604035965393e-08

Root mean squared error:- 0.00029865706145955085

r2 Score:- 0.9999994059361504

At random state 662 the model performs very well

At random state 662

Training score is

0.9999997345302636

Predicted value is [0.98168449 3.10714026 2.08477088 2.51752461 1.95595425 2.31971184 1.94932581 2.45186366 2.13137915 2.75455902 1.88496057 1.78521122 2.24712125 0.89934319 1.38090931 1.63805266 1.8334356 2.50958101 1.69474284 2.26423404 1.34725711 2.21123316 2.32305197 3.26050112 2.00078039 2.48659896 2.02493274 1.73924694 2.23772915 1.73797826] and Actual value is [0.98195, 3.10712, 2.08528, 2.5173799999999997, 1.9563700000000002, 2.31945, 1.9493900000000002, 2.4517599999999997, 2.1309, 2.75414, 1.8854099999999998, 1.78555, 2.24743, 0.89991, 1.38079, 1.63794, 1.83302, 2.51011, 1.6944, 2.26425, 1.34759, 2.21126, 2.32323, 3.26001, 2.00073, 2.48676, 2.0251799999999998, 1.7393299999999998, 2.2374099999999997, 1.737990000000001]

Mean absolute error:- 0.000259458526207453

Mean squared error:- 9.753419517581409e-08

Root mean squared error:- 0.00031230465122347137

r2 Score:- 0.9999996440067807

At random state 663 the model performs very well

At random state 663

Training score is

0.9999997085146553

Predicted value is [2.8669944 3.17757094 1.99180341 2.08478846 2.20149039 2.43245477
2.46512943 1.38095324 2.53921051 1.59577382 1.64837203 1.57163868
2.24712291 1.58827574 2.74278211 1.34732291 1.63330595 3.6018434
2.51770605 2.24628999 2.45368313 1.24119008 2.24710815 2.27546784
1.69484111 2.85760915 2.27409834 1.73800683 2.2323174 2.67776604] and Actual value is [
2.86712, 3.17728, 1.9917200000000002, 2.08528, 2.20173, 2.43209, 2.4653099999999997, 1.38
079, 2.5394200000000002, 1.59541, 1.6488, 1.5714, 2.24729, 1.58782, 2.74255, 1.34759, 1.6
332799999999998, 3.6021400000000003, 2.51767, 2.2463900000000003, 2.4537299999999997, 1.2
4074, 2.24743, 2.27513, 1.6944, 2.85737, 2.27394, 1.7379900000000001, 2.2327, 2.67782]

Mean absolute error:- 0.0002402965880389981

Mean squared error:- 7.749240929999906e-08

Root mean squared error:- 0.0002783745845079954

r2 Score:- 0.9999997511575718

At random state 664 the model performs very well

At random state 664

Training score is

0.9999997270091139

Predicted value is [2.76616439 1.80046061 1.76143016 2.32307941 2.43249636 2.37162447
2.59440281 3.10734577 2.67774724 2.43863999 1.94273546 1.57162995
2.11816835 1.78523294 2.18862428 2.12508993 1.24115587 2.46560886
2.44219625 3.08882676 1.95305 1.5958613 0.65456 2.51755611
1.57037167 1.8335039 1.97548624 2.67618797 3.03488672 1.73837235] and Actual value is [
2.76579, 1.8010099999999998, 1.76145, 2.32323, 2.43209, 2.3711900000000004, 2.5945, 3.107
0900000000004, 2.67782, 2.43872, 1.942959999999998, 1.5714, 2.11773, 1.78555, 2.18896, 2
.12466, 1.24074, 2.4657, 2.44191, 3.08854, 1.95335, 1.59541, 0.6542899999999999, 2.517379
999999997, 1.57059, 1.83302, 1.9757, 2.67585, 3.035, 1.73797]

Mean absolute error:- 0.0002821116449075789

Mean squared error:- 9.861742778686475e-08

Root mean squared error:- 0.0003140341188260676

r2 Score:- 0.9999996750243805

At random state 665 the model performs very well

At random state 665

Training score is

0.9999997485685511

Predicted value is [2.08474033 3.05126591 1.9233993 1.93105224 2.50953133 2.43850768
2.24708253 2.09975366 1.58826215 1.88496131 2.70207224 1.63328982
3.1072095 2.51768991 2.59435583 2.82361287 1.79318204 1.87886169
1.80036015 2.86708136 2.8931811 2.80742677 1.75336047 2.26421547
2.11814737 1.59574742 2.53920073 1.95849643 2.41447948 2.2470822] and Actual value is [
2.08528, 3.05137, 1.92313, 1.931290000000002, 2.51011, 2.43872, 2.24729, 2.10017, 1.5878
2, 1.8854099999999998, 2.70201, 1.633279999999998, 3.1070900000000004, 2.51767, 2.5945,
2.82334, 1.79293, 1.87877, 1.801009999999998, 2.86712, 2.89319, 2.8079099999999997, 1.75
36, 2.26425, 2.11773, 1.59541, 2.5394200000000002, 1.95812, 2.4148400000000003, 2.24743]

Mean absolute error:- 0.00026474093055152507

Mean squared error:- 1.0182810964739446e-07

Root mean squared error:- 0.00031910517019846993

r2 Score:- 0.9999994861663246

At random state 666 the model performs very well

At random state 666

Training score is

0.9999997319604964

Predicted value is [2.76616072 3.05130954 3.19115705 2.85764789 2.46517925 2.23773176
1.71930864 1.95248505 1.62256299 2.00081026 1.95075139 2.59441084
2.44686224 2.32134026 1.57033014 1.86972899 1.9311063 2.79883354
1.24114137 2.27412559 2.37158829 1.95597068 1.64835934 1.63325714
2.75456609 3.10714884 2.4866507 1.80042295 1.95848238 2.51752922] and Actual value is [
2.76579, 3.05137, 3.191309999999996, 2.85737, 2.465309999999997, 2.237409999999997, 1.

7195599999999998, 1.9521, 1.62215, 2.00073, 1.95071, 2.5945, 2.4464900000000003, 2.321420
0000000003, 1.57059, 1.8698400000000002, 1.9312900000000002, 2.79832, 1.24074, 2.27394, 2
.3711900000000004, 1.9563700000000002, 1.6488, 1.6332799999999998, 2.75414, 3.10712, 2.48
676, 1.8010099999999998, 1.95812, 2.5173799999999997]

Mean absolute error:- 0.00025352590924270223
Mean squared error:- 8.945167672097024e-08
Root mean squared error:- 0.0002990847316747718
r2 Score:- 0.999996448460342

At random state 667 the model performs very well

At random state 667

Training score is
0.99999680609508

Predicted value is [1.38098593 3.26042033 1.95072024 1.63328676 2.48655039 2.24709764
1.85112428 1.59584618 2.79874551 2.04406672 2.53339226 1.69481644
1.58830576 2.84823463 1.2136309 2.45365319 2.4656069 3.60182948
2.24627721 1.63813095 2.09029148 0.65462697 2.70212365 2.37162322
1.84417188 1.78525379 2.79071418 1.34734497 2.86699208 2.12375447] and Actual value is [
1.38079, 3.26001, 1.95071, 1.6332799999999998, 2.48676, 2.24729, 1.851, 1.59541, 2.79832,
2.0438400000000003, 2.5332, 1.6944, 1.58782, 2.84848, 1.21305, 2.4537299999999997, 2.4657
, 3.6021400000000003, 2.2463900000000003, 1.63794, 2.0906599999999997, 0.6542899999999999
, 2.70201, 2.3711900000000004, 1.84408, 1.78555, 2.79094, 1.34759, 2.86712, 2.12367]

Mean absolute error:- 0.00024221811941581571
Mean squared error:- 8.036221174915726e-08
Root mean squared error:- 0.00028348229530105975
r2 Score:- 0.999998003504611

At random state 668 the model performs very well

At random state 668

Training score is
0.999997650046255

Predicted value is [1.97543666 2.1099513 2.23768994 2.18861757 3.19110067 2.49200411
1.94268556 2.43853944 2.50956789 2.51763607 2.24709774 2.80734323
1.86607827 1.73830787 1.46503186 1.59856658 1.88522647 0.89941788
2.4484198 2.06383227 2.0007802 1.89855166 2.26418655 1.71926283
1.79309624 2.45182657 2.0440031 2.11352241 2.20791389 1.88497394] and Actual value is [
1.9757, 2.11032, 2.2374099999999997, 2.18896, 3.1913099999999996, 2.4920400000000003, 1.9
429599999999998, 2.43872, 2.51011, 2.51767, 2.24743, 2.8079099999999997, 1.86565, 1.73797
, 1.46494, 1.5988799999999999, 1.8850099999999999, 0.89991, 2.44876, 2.06367, 2.00073, 1.
89894, 2.26425, 1.7195599999999998, 1.79293, 2.4517599999999997, 2.0438400000000003, 2.11
39900000000003, 2.20857, 1.8854099999999998]

Mean absolute error:- 0.0002855669260877066
Mean squared error:- 1.086518406288265e-07
Root mean squared error:- 0.000329623786503381
r2 Score:- 0.999993899290066

At random state 669 the model performs very well

At random state 669

Training score is
0.999997318636614

Predicted value is [1.46181301 3.10723609 1.80038489 2.63446087 2.47500222 1.44415212
2.74282035 1.79311891 1.86610955 2.24179324 1.24115492 2.12501936
2.12377268 2.4866424 2.10998032 2.04398833 2.11353338 1.75336148
2.2112482 1.68154798 2.23771025 2.70218871 1.94933782 0.8993992
2.4651836 1.95594504 3.08886234 2.80741611 1.59893755 2.43855144] and Actual value is [
1.46181, 3.1070900000000004, 1.8010099999999998, 2.6343, 2.4748900000000003, 1.44395, 2.7
4255, 1.79293, 1.86565, 2.24173, 1.24074, 2.12466, 2.12367, 2.48676, 2.11032, 2.043840000
0000003, 2.1139900000000003, 1.7536, 2.21126, 1.68135, 2.2374099999999997, 2.70201, 1.949
3900000000002, 0.89991, 2.4653099999999997, 1.9563700000000002, 3.08854, 2.807909999999999
97, 1.59927, 2.43872]

Mean absolute error:- 0.000250982450708274
Mean squared error:- 8.840784597385247e-08
Root mean squared error:- 0.00029733456908649636
r2 Score:- 0.999996676283179

At random state 670 the model performs very well
At random state 670
Training score is
0.9999996905003474
Predicted value is [2.4536716 3.19109012 2.46564101 2.32133031 2.85765095 0.67153278
1.69495862 1.59902575 2.82366047 1.86440968 2.49198832 1.99182414
2.89327241 1.73806547 1.38101394 1.85110033 0.89949824 1.86613867
1.24123621 1.62263714 2.67623834 1.88969919 2.24190468 2.53346022
3.10734174 1.5882778 1.26506684 1.59567852 2.32379135 2.70223778] and Actual value is [
2.4537299999999997, 3.1913099999999996, 2.4657, 2.3214200000000003, 2.85737, 0.67108, 1.6
944, 1.59927, 2.82334, 1.86399, 2.4920400000000003, 1.9917200000000002, 2.89319, 1.737990
0000000001, 1.38079, 1.851, 0.89991, 1.86565, 1.24074, 1.62215, 2.67585, 1.88930999999999
98, 2.24173, 2.5332, 3.1070900000000004, 1.58782, 1.26462, 1.59541, 2.32407, 2.70201]
Mean absolute error:- 0.0002789744043881659
Mean squared error:- 1.0168769366926401e-07
Root mean squared error:- 0.0003188850790947485
r2 Score:- 0.9999997510806882

At random state 671 the model performs very well
At random state 671
Training score is
0.999997391368575
Predicted value is [1.94933612 2.21999441 1.59894378 2.4866048 2.76613163 1.34734157
2.11557019 1.83340304 2.51766541 1.95295867 3.03482845 1.87657279
2.1313512 1.86428414 2.63443645 2.00075429 2.53918005 2.30872182
3.60182694 1.42785656 2.47496194 2.11354475 1.80037106 2.06387768
1.75334005 2.12500431 1.63323992 1.57032997 2.09026241 1.85107609] and Actual value is [
1.9493900000000002, 2.21978, 1.59927, 2.48676, 2.76579, 1.34759, 2.1156900000000003, 1.83
302, 2.51767, 1.95335, 3.035, 1.8763400000000001, 2.1309, 1.86399, 2.6343, 2.00073, 2.539
42000000000002, 2.30919, 3.6021400000000003, 1.42766, 2.4748900000000003, 2.113990000000000
03, 1.8010099999999998, 2.06367, 1.7536, 2.12466, 1.6332799999999998, 1.57059, 2.09065999
99999997, 1.851]
Mean absolute error:- 0.0002502849017240072
Mean squared error:- 8.507970382270562e-08
Root mean squared error:- 0.00029168425364202574
r2 Score:- 0.9999962642619

At random state 672 the model performs very well
At random state 672
Training score is
0.999997083755441
Predicted value is [2.44685481 1.46507012 1.96972419 2.11357054 3.26048064 2.21999977
1.85109442 2.48657391 2.32380186 2.51766975 1.8849837 1.93107166
1.80039808 1.38095853 3.05125394 1.41714745 1.61619172 3.60185331
1.88951457 2.123769 2.23773401 2.89322445 2.61955248 1.95073208
2.44222191 1.64837201 2.79065872 1.6814966 2.44847247 0.99843767] and Actual value is [
2.4464900000000003, 1.46494, 1.9699400000000002, 2.1139900000000003, 3.26001, 2.21978, 1.
851, 2.48676, 2.32407, 2.51767, 1.8854099999999998, 1.9312900000000002, 1.801009999999999
8, 1.38079, 3.05137, 1.41723, 1.6158299999999999, 3.6021400000000003, 1.8893099999999998,
2.12367, 2.2374099999999997, 2.89319, 2.61955, 1.95071, 2.44191, 1.6488, 2.79094, 1.68135
, 2.44876, 0.99895]
Mean absolute error:- 0.0002431952604034023
Mean squared error:- 8.35964518428237e-08
Root mean squared error:- 0.0002891305100518167
r2 Score:- 0.999997499664782

At random state 673 the model performs very well
At random state 673
Training score is
0.999997219779659
Predicted value is [1.61615826 2.50993765 2.3230576 2.24195088 3.60184433 2.18863333
2.45366736 1.9918518 2.67617205 1.64837271 1.9507459 2.11816221
1.95303031 1.4617383 3.19108732 2.21118735 2.27547583 1.87655903
2.63447466 1.87966937 2.41446745 1.9585119 0.67141724 1.83355354
1.84417513 2.12507314 2.79882802 1.87881905 1.71925369 1.75334942] and Actual value is [

1.6158299999999999, 2.51009, 2.32323, 2.24173, 3.6021400000000003, 2.18896, 2.453729999999
99997, 1.9917200000000002, 2.67585, 1.6488, 1.95071, 2.11773, 1.95335, 1.46181, 3.1913099
999999996, 2.21126, 2.27513, 1.8763400000000001, 2.6343, 1.8799599999999999, 2.4148400000
000003, 1.95812, 0.67108, 1.83302, 1.84408, 2.12466, 2.79832, 1.87877, 1.7195599999999998
, 1.7536]

Mean absolute error:- 0.0002627492321691978

Mean squared error:- 8.772251203475714e-08

Root mean squared error:- 0.00029617986433037126

r2 Score:- 0.9999996924405454

At random state 674 the model performs very well

At random state 674

Training score is

0.9999996890151819

Predicted value is [1.73933383 3.05127607 2.06396479 1.4278789 1.95074878 2.4519288
2.11811402 1.86614404 2.85770806 2.7428654 1.96976381 2.32314251
1.69483243 2.86705023 3.08893329 3.17769804 0.65450092 1.75873906
1.68433229 3.26050484 3.1911827 1.59896792 1.21362116 2.30875977
2.12382777 2.31988998 2.26426644 1.6381556 2.75458375 2.432465] and Actual value is [
1.7393299999999998, 3.05137, 2.06367, 1.42766, 1.95071, 2.451759999999997, 2.11773, 1.86
565, 2.85737, 2.74255, 1.9699400000000002, 2.32323, 1.6944, 2.86712, 3.08854, 3.17728, 0.
6542899999999999, 1.75873, 1.68435, 3.26001, 3.1913099999999996, 1.59927, 1.21305, 2.3091
9, 2.12367, 2.31945, 2.26425, 1.63794, 2.75414, 2.43209]

Mean absolute error:- 0.00025798682667702575

Mean squared error:- 9.500835643041693e-08

Root mean squared error:- 0.0003082342557705372

r2 Score:- 0.9999997630435357

At random state 675 the model performs very well

At random state 675

Training score is

0.9999997595817937

Predicted value is [2.45186141 1.78521766 1.24119106 1.96946952 2.09028026 1.62259074
2.13144754 2.59439752 2.09984726 1.94275131 1.86002937 1.58832856
2.51768448 2.32135005 0.9816816 2.44222103 2.4325184 2.50957029
1.8797209 2.70208965 2.18862818 1.59582226 1.86608137 1.88532138
1.41719311 2.82360624 2.51754953 2.11817276 1.9234175 2.43864166] and Actual value is [
2.451759999999997, 1.78555, 1.24074, 1.969609999999999, 2.090659999999997, 1.62215, 2.
1309, 2.5945, 2.10017, 1.942959999999998, 1.8604, 1.58782, 2.51767, 2.3214200000000003,
0.98195, 2.44191, 2.43209, 2.51011, 1.879959999999999, 2.70201, 2.18896, 1.59541, 1.8656
5, 1.8850099999999999, 1.41723, 2.82334, 2.517379999999997, 2.11773, 1.92313, 2.43872]

Mean absolute error:- 0.00028750780514767243

Mean squared error:- 1.0658408142500299e-07

Root mean squared error:- 0.00032647217557550445

r2 Score:- 0.9999994401996866

At random state 676 the model performs very well

At random state 676

Training score is

0.99999972319053

Predicted value is [0.89942428 2.0440811 1.86422749 3.10717324 2.12510275 2.44692975
3.17761529 2.11561044 2.619575 1.26496074 2.8576411 1.44419481
2.50985793 2.10995909 2.41453645 1.88524225 1.8985831 0.98162837
2.11815626 1.88497129 1.73927118 1.64831856 2.27418602 1.86971204
2.48654674 2.30871279 1.76132219 2.00083918 1.62257965 2.86708985] and Actual value is [
0.89991, 2.043840000000003, 1.86399, 3.10712, 2.12466, 2.446490000000003, 3.17728, 2.11
5690000000003, 2.61955, 1.26462, 2.85737, 1.44395, 2.51009, 2.11032, 2.414840000000003,
1.885009999999999, 1.89894, 0.98195, 2.11773, 1.885409999999998, 1.739329999999998, 1.
6488, 2.27394, 1.869840000000002, 2.48676, 2.30919, 1.76145, 2.00073, 1.62215, 2.86712]

Mean absolute error:- 0.0002723445343274548

Mean squared error:- 9.486347041548455e-08

Root mean squared error:- 0.0003079991402836777

r2 Score:- 0.999999682178471

At random state 677 the model performs very well
At random state 677
Training score is
0.99999970876165
Predicted value is [2.89326972 0.99843236 2.02483042 2.46562017 1.76144756 1.94275526
1.93109024 2.20789856 3.19101292 1.41717471 2.82362858 2.11003574
1.69490008 2.53340176 2.45367629 2.43849297 3.10738518 1.4617277
1.75334164 2.11812034 2.79065696 2.51776293 3.60184113 2.67772985
1.24108246 1.84412248 1.83339542 2.46513363 1.95260794 1.80034961] and Actual value is [
2.89319, 0.99895, 2.025, 2.4657, 1.76145, 1.9429599999999998, 1.9312900000000002, 2.20857
, 3.1913099999999996, 1.41723, 2.82334, 2.11032, 1.6944, 2.5332, 2.4537299999999997, 2.43
872, 3.1070900000000004, 1.46181, 1.7536, 2.11773, 2.79094, 2.51767, 3.6021400000000003,
2.67782, 1.24074, 1.84408, 1.83302, 2.4653099999999997, 1.9521, 1.8010099999999998]
Mean absolute error:- 0.00025763884045621653
Mean squared error:- 9.757227981957657e-08
Root mean squared error:- 0.00031236561881803923
r2 Score:- 0.9999997219014304

At random state 678 the model performs very well
At random state 678
Training score is
0.9999997103535325
Predicted value is [2.08474132 2.85770024 2.61961053 1.95245507 1.92338114 2.32138452
3.26053217 2.47502857 3.17772918 2.37162622 2.22004193 1.41713084
2.00077897 2.67621439 3.0889101 2.48654812 2.41457284 2.4519355
1.95287471 1.95599338 2.09975463 3.05124452 2.74287685 2.13137065
2.67782825 0.65445935 2.32310538 1.71920505 2.49208381 2.51775644] and Actual value is [
2.08528, 2.85737, 2.61955, 1.9521, 1.92313, 2.3214200000000003, 3.26001, 2.474890000000000
03, 3.17728, 2.3711900000000004, 2.21978, 1.41723, 2.00073, 2.67585, 3.08854, 2.48676, 2.
4148400000000003, 2.4517599999999997, 1.95335, 1.9563700000000002, 2.10017, 3.05137, 2.74
255, 2.1309, 2.67782, 0.6542899999999999, 2.32323, 1.7195599999999998, 2.49204000000000003
, 2.51767]
Mean absolute error:- 0.000263134588348927
Mean squared error:- 9.463031585857811e-08
Root mean squared error:- 0.0003076204087159662
r2 Score:- 0.9999996643181619

At random state 679 the model performs very well
At random state 679
Training score is
0.999999714771816
Predicted value is [1.59895267 1.68428751 2.47492929 2.86703282 2.43241885 2.75451348
2.27407672 2.08474095 1.71924167 2.79069131 2.84824936 2.46555283
3.19108462 1.93109879 1.94271654 2.11556018 2.49198674 1.2649739
2.0997648 1.6381037 1.88498751 1.99178112 2.46511544 1.59857109
2.26419819 2.06387126 1.42787013 2.59438123 2.8359473 2.26643523] and Actual value is [
1.59927, 1.68435, 2.474890000000003, 2.86712, 2.43209, 2.75414, 2.27394, 2.08528, 1.7195
599999999998, 2.79094, 2.84848, 2.4657, 3.1913099999999996, 1.9312900000000002, 1.9429599
99999998, 2.1156900000000003, 2.4920400000000003, 1.26462, 2.10017, 1.63794, 1.885409999
9999998, 1.9917200000000002, 2.4653099999999997, 1.5988799999999999, 2.26425, 2.06367, 1.
42766, 2.5945, 2.8360000000000003, 2.26646]
Mean absolute error:- 0.00020805553282681187
Mean squared error:- 6.038613723893466e-08
Root mean squared error:- 0.00024573590954301866
r2 Score:- 0.999999732409584

At random state 680 the model performs very well
At random state 680
Training score is
0.9999997187737498
Predicted value is [1.8853092 1.86004139 2.23230133 2.02484724 2.02495564 2.2462729
3.05121374 1.9525616 0.65448582 1.73799413 2.44217343 1.57159921
2.12513067 1.64833121 2.74278484 1.97544051 3.1071177 1.95596746
2.27554842 2.61956024 1.26495413 2.04404512 1.79310475 2.27410814
1.99185061 1.71926835 3.26046424 2.46516028 1.93112775 2.22005136] and Actual value is [
1.8850099999999999, 1.8604, 2.2327, 2.025, 2.0251799999999998, 2.2463900000000003, 3.0513

7, 1.9521, 0.6542899999999999, 1.7379900000000001, 2.44191, 1.5714, 2.12466, 1.6488, 2.74
255, 1.9757, 3.10712, 1.9563700000000002, 2.27513, 2.61955, 1.26462, 2.0438400000000003,
1.79293, 2.27394, 1.9917200000000002, 1.7195999999999998, 3.26001, 2.4653099999999997, 1.
9312900000000002, 2.21978]

Mean absolute error:- 0.0002480143448643076

Mean squared error:- 7.979163278193895e-08

Root mean squared error:- 0.0002824741276328488

r2 Score:- 0.9999997070055594

At random state 681 the model performs very well

At random state 681

Training score is

0.9999997152287046

Predicted value is [2.61953427 2.84831233 2.67619994 1.96965728 1.21358087 1.87965849
2.08473215 1.59890091 2.46555625 0.98171767 2.00074348 2.24711074
2.44682893 2.85768145 2.22001325 2.06390148 2.11354453 1.4278267
2.24629318 1.97544312 1.64836489 3.26049782 1.57031617 2.83600907
0.65441057 2.53340738 1.46168511 2.20795745 2.11807813 0.99837847] and Actual value is [
2.61955, 2.84848, 2.67585, 1.9699400000000002, 1.21305, 1.8799599999999999, 2.08528, 1.59
927, 2.4657, 0.98195, 2.00073, 2.24729, 2.4464900000000003, 2.85737, 2.21978, 2.06367, 2.
1139900000000003, 1.42766, 2.2463900000000003, 1.9757, 1.6488, 3.26001, 1.57059, 2.836000
0000000003, 0.6542899999999999, 2.5332, 1.46181, 2.20857, 2.11773, 0.99895]

Mean absolute error:- 0.0002802019633340369

Mean squared error:- 1.0556053177877383e-07

Root mean squared error:- 0.00032490080298265474

r2 Score:- 0.9999997135255091

At random state 682 the model performs very well

At random state 682

Training score is

0.9999996844349193

Predicted value is [2.43242723 2.319827 2.1237768 1.76140956 2.86705004 1.57035803
2.79060554 1.38100356 2.24631631 3.19104682 2.21122128 1.63816423
1.94936458 2.2642483 1.46176912 2.04402514 1.68430993 2.32308196
2.8235732 2.80735049 3.10709744 2.49202097 2.05100521 2.23236946
1.87876963 1.62259245 1.71930042 2.63437644 2.43853533 3.60176706] and Actual value is [
2.43209, 2.31945, 2.12367, 1.76145, 2.86712, 1.57059, 2.79094, 1.38079, 2.2463900000000000
3, 3.1913099999999996, 2.21126, 1.63794, 1.9493900000000002, 2.26425, 1.46181, 2.04384000
00000003, 1.68435, 2.32323, 2.82334, 2.8079099999999997, 3.10712, 2.4920400000000003, 2.0
5125, 2.2327, 1.87877, 1.62215, 1.7195599999999998, 2.6343, 2.43872, 3.6021400000000003]

Mean absolute error:- 0.0001832852169390368

Mean squared error:- 5.5043776099009636e-08

Root mean squared error:- 0.0002346141003840341

r2 Score:- 0.9999998128197433

At random state 683 the model performs very well

At random state 683

Training score is

0.999999746443054

Predicted value is [2.79885848 2.20797329 1.76146678 2.7022177 2.75459504 1.62254968
2.02484719 2.09030879 1.79309792 2.27409938 2.08476575 0.89932816
1.68422774 1.95594358 2.02497108 2.11351402 2.22003498 2.89335265
1.85103603 2.53919831 1.73829801 2.74284349 1.57157397 1.57033123
2.67622708 2.76621696 1.95839902 3.10739148 3.08892418 1.73799201] and Actual value is [
2.79832, 2.20857, 1.76145, 2.70201, 2.75414, 1.62215, 2.025, 2.0906599999999997, 1.79293,
2.27394, 2.08528, 0.89991, 1.68435, 1.9563700000000002, 2.0251799999999998, 2.113990000000
00003, 2.21978, 2.89319, 1.851, 2.5394200000000002, 1.73797, 2.74255, 1.5714, 1.57059, 2.
67585, 2.76579, 1.95812, 3.1070900000000004, 3.08854, 1.7379900000000001]

Mean absolute error:- 0.00029585710154661493

Mean squared error:- 1.133408457694439e-07

Root mean squared error:- 0.00033666132205741116

r2 Score:- 0.9999995829495116

At random state 684 the model performs very well

At random state 684
Training score is
0.9999997505195117
Predicted value is [1.95839017 2.85771257 1.6483682 3.17769037 2.18865713 1.417166
2.0638998 2.45370718 1.96942476 1.87664089 2.43247504 1.26499762
1.61622467 3.10715169 2.23231768 2.75462211 2.24717766 2.82373374
2.5334437 1.75871275 2.09979418 1.95592742 2.0248474 2.46556839
2.76618234 1.86002086 2.20795034 2.7428676 2.7988809 2.67622539] and Actual value is [
1.95812, 2.85737, 1.6488, 3.17728, 2.18896, 1.41723, 2.06367, 2.453729999999999, 1.96960
99999999999, 1.8763400000000001, 2.43209, 1.26462, 1.615829999999999, 3.10712, 2.2327, 2.
.75414, 2.24729, 2.82334, 2.5332, 1.75873, 2.10017, 1.9563700000000002, 2.025, 2.4657, 2.
76579, 1.8604, 2.20857, 2.74255, 2.79832, 2.67585]

Mean absolute error:- 0.0003042888471515459

Mean squared error:- 1.1628509200251515e-07

Root mean squared error:- 0.00034100599995090286

r2 Score:- 0.9999995055270764

At random state 685 the model performs very well

At random state 685

Training score is

0.9999997076619193

Predicted value is [2.32133727 1.86436601 1.79309362 1.94273517 1.76148355 1.62259918
2.47500495 3.19113914 2.70225085 2.44687037 1.89857305 2.43859289
1.75870439 1.95597874 2.61955278 2.23766427 3.08894735 1.8896297
2.76620846 3.10715978 3.17765241 1.87965589 1.86610819 2.4519479
1.88526614 1.41714159 3.10735509 2.53919539 1.87663264 2.51767375] and Actual value is [
2.3214200000000003, 1.86399, 1.79293, 1.942959999999998, 1.76145, 1.62215, 2.47489000000
00003, 3.191309999999996, 2.70201, 2.4464900000000003, 1.89894, 2.43872, 1.75873, 1.9563
700000000002, 2.61955, 2.2374099999999997, 3.08854, 1.8893099999999998, 2.76579, 3.10712,
3.17728, 1.879959999999999, 1.86565, 2.4517599999999997, 1.8850099999999999, 1.41723, 3.
1070900000000004, 2.5394200000000002, 1.8763400000000001, 2.51767]

Mean absolute error:- 0.00023478234402503814

Mean squared error:- 7.479304261284669e-08

Root mean squared error:- 0.00027348316696434294

At random state 686 the model performs very well

At random state 686

Training score is

0.9999996986245072

Predicted value is [1.62258839 1.8986145 1.99177544 1.44422286 1.34734081 3.05120655
2.50954911 3.107105 3.60182901 1.2650122 2.43247092 1.8696998
3.08879607 2.85760022 2.05109844 2.26418814 2.02488188 2.46552645
2.24630368 2.22004219 2.50984827 1.88497761 2.5174722 2.04408561
1.5716869 2.4144984 1.59578865 2.46510638 1.63326865 2.47493512] and Actual value is [
1.62215, 1.89894, 1.991720000000002, 1.44395, 1.34759, 3.05137, 2.51011, 3.10712, 3.6021
400000000003, 1.26462, 2.43209, 1.869840000000002, 3.08854, 2.85737, 2.05125, 2.26425, 2.
.025, 2.4657, 2.246390000000003, 2.21978, 2.51009, 1.885409999999998, 2.517379999999999
7, 2.0438400000000003, 1.5714, 2.4148400000000003, 1.59541, 2.4653099999999997, 1.6332799
99999998, 2.4748900000000003]

Mean absolute error:- 0.0002308022871534199

Mean squared error:- 7.2014621406075e-08

Root mean squared error:- 0.0002683554012984926

r2 Score:- 0.9999997689923562

At random state 687 the model performs very well

At random state 687

Training score is

0.9999997201580798

Predicted value is [1.73931623 1.24119842 2.48658701 2.24190803 1.75873658 2.00073643
1.57037545 1.21364435 1.8896242 2.70219984 1.71919731 2.79879169
2.05113802 2.02499663 1.86425255 1.63321293 1.34732901 1.78526097
2.50986846 2.11355032 0.99840743 1.26500835 2.09033637 2.23771293
2.27537016 2.06397139 1.88501089 0.65455139 2.12377008 2.43852163] and Actual value is [
1.739329999999998, 1.24074, 2.48676, 2.24173, 1.75873, 2.00073, 1.57059, 1.21305, 1.8893
09999999998, 2.70201, 1.719559999999998, 2.79832, 2.05125, 2.025179999999998, 1.86399,

1.6332799999999998, 1.34759, 1.78555, 2.51009, 2.1139900000000003, 0.99895, 1.26462, 2.09
06599999999997, 2.2374099999999997, 2.27513, 2.06367, 1.8854099999999998, 0.6542899999999
999, 2.12367, 2.43872]

Mean absolute error:- 0.0002625910675176257

Mean squared error:- 9.136532650821744e-08

Root mean squared error:- 0.0003022669788584546

r2 Score:- 0.9999996237611197

At random state 688 the model performs very well

At random state 688

Training score is

0.9999997058098655

Predicted value is [2.7020876 1.95071484 1.95597219 2.4919827 2.4536748 2.46555002

3.10735686 0.99844086 2.59438425 2.09022724 1.64832416 2.18860366

1.68153607 2.51772981 1.41715412 2.41446788 3.17756659 1.87964228

1.7852242 2.11553568 2.50957159 2.84823203 1.57160306 2.02484347

1.42781027 2.76615883 2.27406995 2.05109166 1.9525326 3.60186872] and Actual value is [

2.70201, 1.95071, 1.9563700000000002, 2.4920400000000003, 2.4537299999999997, 2.4657, 3.1070900000000004, 0.99895, 2.5945, 2.0906599999999997, 1.6488, 2.18896, 1.68135, 2.51767, 1.41723, 2.4148400000000003, 3.17728, 1.8799599999999999, 1.78555, 2.11569000000000003, 2.51011, 2.84848, 1.5714, 2.025, 1.42766, 2.76579, 2.27394, 2.05125, 1.9521, 3.6021400000000003]

Mean absolute error:- 0.0002449938140022425

Mean squared error:- 8.17176896066171e-08

Root mean squared error:- 0.00028586306093410723

r2 Score:- 0.999999741811448

At random state 689 the model performs very well

At random state 689

Training score is

0.9999997561486436

Predicted value is [2.59440634 2.46514303 1.9427564 1.26497948 2.13141095 1.64832784

1.75874855 2.23234224 1.88498146 1.46509096 1.59856943 1.88953114

1.87660249 1.44421065 2.1181492 2.32133301 1.86421032 2.02485139

1.9529826 2.7427798 2.7545668 2.46555266 1.95848399 2.30873235

2.47497623 2.67778302 1.89858621 2.12376255 1.87882198 2.12508298] and Actual value is [

2.5945, 2.4653099999999997, 1.942959999999998, 1.26462, 2.1309, 1.6488, 1.75873, 2.2327, 1.885409999999998, 1.46494, 1.598879999999999, 1.889309999999998, 1.8763400000000001, 1.44395, 2.11773, 2.3214200000000003, 1.86399, 2.025, 1.95335, 2.74255, 2.75414, 2.4657, 1.95812, 2.30919, 2.4748900000000003, 2.67782, 1.89894, 2.12367, 1.87877, 2.12466]

Mean absolute error:- 0.0002576691441604995

Mean squared error:- 8.733202853385212e-08

Root mean squared error:- 0.00029551992916528004

r2 Score:- 0.9999993989060129

At random state 690 the model performs very well

At random state 690

Training score is

0.9999997177019988

Predicted value is [1.38093717 2.80734041 1.69476077 2.23234036 2.7427725 2.37161253

1.26501387 1.59900022 1.59577632 2.44218157 2.20798183 0.99850226

1.58832939 2.47500485 2.26426457 1.3473419 2.13143529 1.96948205

1.86974358 2.20150211 0.98170744 1.8510859 1.57167632 1.59862095

3.26047666 1.88500143 1.24120666 1.62259657 1.73929755 0.65454678] and Actual value is [

1.38079, 2.8079099999999997, 1.6944, 2.2327, 2.74255, 2.3711900000000004, 1.26462, 1.59927, 1.59541, 2.44191, 2.20857, 0.99895, 1.58782, 2.4748900000000003, 2.26425, 1.34759, 2.1309, 1.969609999999999, 1.8698400000000002, 2.20173, 0.98195, 1.851, 1.5714, 1.598879999999999, 3.26001, 1.8854099999999998, 1.24074, 1.62215, 1.7393299999999998, 0.654289999999999]

Mean absolute error:- 0.00030785600412972143

Mean squared error:- 1.1976856816721083e-07

Root mean squared error:- 0.00034607595722212605

r2 Score:- 0.9999996370364272

At random state 691 the model performs very well
At random state 691
Training score is
0.9999997497981136

Predicted value is [1.87963041 1.89854268 2.37157389 2.27551342 2.02478449 1.93109096
2.2112052 2.84827779 1.26496976 2.49202167 2.24181941 0.89936035
2.51771372 1.58822364 1.68157275 1.46182624 2.53917918 2.5943819
2.31984941 2.26648855 1.96943664 2.08470525 1.8333468 1.61622816
2.53343463 2.02491221 2.46518222 2.20786516 1.84411273 2.67775266] and Actual value is [
1.8799599999999999, 1.89894, 2.3711900000000004, 2.27513, 2.025, 1.9312900000000002, 2.21
126, 2.84848, 1.26462, 2.4920400000000003, 2.24173, 0.89991, 2.51767, 1.58782, 1.68135, 1
.46181, 2.5394200000000002, 2.5945, 2.31945, 2.26646, 1.9696099999999999, 2.08528, 1.8330
2, 1.6158299999999999, 2.5332, 2.0251799999999998, 2.4653099999999997, 2.20857, 1.84408,
2.67782]

Mean absolute error:- 0.00025181169121252234
Mean squared error:- 9.47273925935897e-08
Root mean squared error:- 0.00030777815483492275
r2 Score:- 0.999999501341161

At random state 692 the model performs very well

At random state 692

Training score is

0.99999971812172

Predicted value is [1.99176713 2.67619279 1.86965015 2.02485765 1.38093555 1.34731495
2.48662206 2.37153721 2.53340334 2.23233521 2.05109095 2.41450014
2.51768234 2.44845856 2.45364715 1.63323707 2.08475997 3.10730845
2.61950814 2.02498149 1.97546373 1.96970022 2.06391976 1.96940107
1.87873919 2.74280336 2.70216999 2.44682359 3.05124415 1.4441426] and Actual value is [
1.9917200000000002, 2.67585, 1.8698400000000002, 2.025, 1.38079, 1.34759, 2.48676, 2.3711
900000000004, 2.5332, 2.2327, 2.05125, 2.4148400000000003, 2.51767, 2.44876, 2.4537299999
999997, 1.6332799999999998, 2.08528, 3.1070900000000004, 2.61955, 2.0251799999999998, 1.9
757, 1.9699400000000002, 2.06367, 1.9696099999999999, 1.87877, 2.74255, 2.70201, 2.446490
0000000003, 3.05137, 1.44395]

Mean absolute error:- 0.00020480818358580659
Mean squared error:- 5.5366782403992674e-08
Root mean squared error:- 0.00023530147131710136
r2 Score:- 0.9999997166867949

At random state 693 the model performs very well

At random state 693

Training score is

0.9999997143432886

Predicted value is [2.20793138 1.76142643 2.21995848 2.70214679 2.18867955 3.60181455
1.79316894 1.347373 2.82365256 2.79069754 2.24182818 2.61952787
2.74280596 1.46510506 1.75865543 2.05108076 1.62253305 2.09023638
3.10710592 2.02479984 2.00076664 2.2014972 2.45364038 1.3809813
1.92339229 1.42790533 1.80031529 2.46515658 1.5703073 2.79878666] and Actual value is [
2.20857, 1.76145, 2.21978, 2.70201, 2.18896, 3.6021400000000003, 1.79293, 1.34759, 2.8233
4, 2.79094, 2.24173, 2.61955, 2.74255, 1.46494, 1.75873, 2.05125, 1.62215, 2.090659999999
9997, 3.10712, 2.025, 2.00073, 2.20173, 2.453729999999997, 1.38079, 1.92313, 1.42766, 1.
801009999999998, 2.465309999999997, 1.57059, 2.79832]

Mean absolute error:- 0.00023519444448772593
Mean squared error:- 8.135731643819987e-08
Root mean squared error:- 0.0002852320396417623
r2 Score:- 0.99999972513025

At random state 694 the model performs very well

At random state 694

Training score is

0.9999997442391835

Predicted value is [1.88503624 3.03480037 1.57162027 3.08883112 2.20791869 2.59437987
2.09978529 2.3715671 2.23231677 1.24115013 2.45187734 2.70213128
1.9234044 1.95253615 2.26423285 1.89857128 1.94937787 1.69486023
2.82360677 1.4441834 2.4651629 2.4385602 2.83592844 1.96945338
2.11812202 1.6815634 2.50987845 2.6195257 2.18863281 2.80741603] and Actual value is [
1.885409999999998, 3.035, 1.5714, 3.08854, 2.20857, 2.5945, 2.10017, 2.3711900000000004,

2.2327, 1.24074, 2.4517599999999997, 2.70201, 1.92313, 1.9521, 2.26425, 1.89894, 1.949390
0000000002, 1.6944, 2.82334, 1.44395, 2.4653099999999997, 2.43872, 2.8360000000000003, 1.
9696099999999999, 2.11773, 1.68135, 2.51009, 2.61955, 2.18896, 2.8079099999999997]

Mean absolute error:- 0.00026388231217769527
Mean squared error:- 9.323441536955756e-08
Root mean squared error:- 0.0003053431108925786
r2 Score:- 0.999995621821637

At random state 695 the model performs very well

At random state 695

Training score is

0.999997426511589

Predicted value is [2.2741736 2.79892274 3.26052564 3.17770042 1.93121798 2.75459232
1.95598637 2.46557523 2.23775911 1.42790614 1.26507117 2.82373051
2.43250562 1.62262036 2.08478033 1.75875488 2.32386612 1.46508257
2.12382984 2.3198261 1.88962346 2.76617556 2.74287808 2.20152463
1.58832428 3.19125166 1.57170445 2.02502946 2.06396891 1.21369225] and Actual value is [
2.27394, 2.79832, 3.26001, 3.17728, 1.9312900000000002, 2.75414, 1.9563700000000002, 2.46
57, 2.2374099999999997, 1.42766, 1.26462, 2.82334, 2.43209, 1.62215, 2.08528, 1.75873, 2.
32407, 1.46494, 2.12367, 2.31945, 1.8893099999999998, 2.76579, 2.74255, 2.20173, 1.58782,
3.1913099999999996, 1.5714, 2.0251799999999998, 2.06367, 1.21305]

Mean absolute error:- 0.0003242070175188294

Mean squared error:- 1.305432919228829e-07

Root mean squared error:- 0.00036130775237030674

r2 Score:- 0.999995864090475

At random state 696 the model performs very well

At random state 696

Training score is

0.999997512293659

Predicted value is [1.87964873 1.83346486 2.48663623 2.74280332 1.79312973 1.93109951
2.00074367 1.41714096 1.88530367 0.99839799 2.53341035 2.79884925
2.24194839 1.97551448 1.75332105 2.44847077 1.73833699 2.02485126
2.12372563 1.80039064 2.22000808 2.24706681 1.86970278 2.76616594
2.37161674 2.04402869 2.21121187 1.87875406 1.94933006 2.80745532] and Actual value is [
1.879959999999999, 1.83302, 2.48676, 2.74255, 1.79293, 1.931290000000002, 2.00073, 1.41
723, 1.885009999999999, 0.99895, 2.5332, 2.79832, 2.24173, 1.9757, 1.7536, 2.44876, 1.73
797, 2.025, 2.12367, 1.801009999999998, 2.21978, 2.24729, 1.8698400000000002, 2.76579, 2
.3711900000000004, 2.0438400000000003, 2.21126, 1.87877, 1.9493900000000002, 2.8079099999
99997]

Mean absolute error:- 0.00025109359315380236

Mean squared error:- 8.845263727713823e-08

Root mean squared error:- 0.0002974098809339364

r2 Score:- 0.999994596656203

At random state 697 the model performs very well

At random state 697

Training score is

0.999997289141446

Predicted value is [2.11554194 1.73829472 1.86000723 1.88501173 1.26500384 1.87656115
2.09980913 1.34734812 2.06395356 2.24705924 1.95246504 0.99846294
1.94934231 1.59861062 2.00076344 1.73931075 1.57037887 2.43852293
1.68155617 1.84417089 1.24119819 1.71926023 1.57165812 2.44218259
2.76615909 1.86608871 2.11001744 2.46511193 2.23235741 0.67141748] and Actual value is [
2.1156900000000003, 1.73797, 1.8604, 1.885409999999998, 1.26462, 1.8763400000000001, 2.1
0017, 1.34759, 2.06367, 2.24743, 1.9521, 0.99895, 1.9493900000000002, 1.5988799999999999,
2.00073, 1.7393299999999998, 1.57059, 2.43872, 1.68135, 1.84408, 1.24074, 1.7195599999999
998, 1.5714, 2.44191, 2.76579, 1.86565, 2.11032, 2.4653099999999997, 2.2327, 0.67108]

Mean absolute error:- 0.0002776726823822758

Mean squared error:- 9.185170963901245e-08

Root mean squared error:- 0.00030307046975746823

r2 Score:- 0.999995313166625

At random state 698 the model performs very well

At random state 698
Training score is
0.9999997328640868
Predicted value is [1.78525059 2.61951719 1.26493802 0.99840613 2.67617883 3.26047219
1.71923016 1.63323809 1.76139751 2.45366101 2.06393554 1.9507102
2.49199652 1.99178713 2.44222508 2.53922283 2.26643527 2.41449086
2.2323753 2.24705902 1.63808087 2.27543359 1.59856295 2.59440914
2.50958368 2.12375163 2.44684512 1.68427828 2.02498432 1.95847778] and Actual value is [
1.78555, 2.61955, 1.26462, 0.99895, 2.67585, 3.26001, 1.7195599999999998, 1.633279999999999
998, 1.76145, 2.4537299999999997, 2.06367, 1.95071, 2.4920400000000003, 1.9917200000000000
2, 2.44191, 2.5394200000000002, 2.26646, 2.4148400000000003, 2.2327, 2.24743, 1.63794, 2.
27513, 1.5988799999999999, 2.5945, 2.51011, 2.12367, 2.4464900000000003, 1.68435, 2.02517
99999999998, 1.95812]
Mean absolute error:- 0.00022923833264210843
Mean squared error:- 7.700404771956794e-08
Root mean squared error:- 0.00027749603189877855
r2 Score:- 0.9999996410604975

At random state 699 the model performs very well

At random state 699
Training score is
0.9999997229859201

Predicted value is [2.84828647 3.08885602 2.30873009 1.86965917 0.67138074 2.2112281
2.06392641 1.41713523 2.1135318 2.75456452 1.78523291 2.27541832
1.95297444 2.02498801 2.46557052 1.88500846 0.99844387 1.86000096
1.79310292 2.63444772 1.96968889 2.86700221 1.7392921 2.8932067
2.11809373 2.24185005 2.12376208 1.86608272 1.2649852 1.87658192] and Actual value is [
2.84848, 3.08854, 2.30919, 1.8698400000000002, 0.67108, 2.21126, 2.06367, 1.41723, 2.1139
900000000003, 2.75414, 1.78555, 2.27513, 1.95335, 2.025179999999998, 2.4657, 1.885409999
9999998, 0.99895, 1.8604, 1.79293, 2.6343, 1.9699400000000002, 2.86712, 1.739329999999999
8, 2.89319, 2.11773, 2.24173, 2.12367, 1.86565, 1.26462, 1.8763400000000001]

Mean absolute error:- 0.0002561937788542893

Mean squared error:- 8.525242984377897e-08

Root mean squared error:- 0.0002919801874165077

r2 Score:- 0.9999997068291101

At random state 700 the model performs very well

At random state 700

Training score is
0.9999997157108841

Predicted value is [1.92332136 1.73797545 1.26492501 2.00073392 2.53916554 1.93109284
1.87963011 3.19111195 2.80739084 1.59891894 2.20141248 2.24707597
1.68425608 2.74277327 1.57030921 2.6761851 2.26425364 3.1775853
1.94268684 1.88499285 1.95593076 1.85991944 2.11555077 3.0888467
2.84825875 1.96941937 2.45189295 2.24628649 1.99171971 2.83594497] and Actual value is [
1.92313, 1.7379900000000001, 1.26462, 2.00073, 2.5394200000000002, 1.9312900000000002, 1.
879959999999999, 3.191309999999996, 2.807909999999997, 1.59927, 2.20173, 2.24729, 1.68
435, 2.74255, 1.57059, 2.67585, 2.26425, 3.17728, 1.942959999999998, 1.885409999999998,
1.9563700000000002, 1.8604, 2.1156900000000003, 3.08854, 2.84848, 1.969609999999999, 2.4
517599999999997, 2.2463900000000003, 1.9917200000000002, 2.8360000000000003]

Mean absolute error:- 0.000229929611096491

Mean squared error:- 7.222087323811521e-08

Root mean squared error:- 0.00026873941511827996

r2 Score:- 0.9999997096456175

At random state 701 the model performs very well

At random state 701

Training score is
0.999999694653632

Predicted value is [3.10709532 1.58830997 1.88530301 1.92340149 2.53340699 2.89316356
2.61958131 3.1776096 2.26425387 1.86610203 2.83597957 2.41453898
1.71927263 2.11559689 1.73836059 2.4324719 1.57165695 2.09981218
2.45366685 2.26649019 3.60186181 2.04405708 1.59578895 2.67777962
2.02485635 0.98177462 1.88957743 1.59898179 2.4385802 2.00080852] and Actual value is [
3.10712, 1.58782, 1.885009999999999, 1.92313, 2.5332, 2.89319, 2.61955, 3.17728, 2.26425
, 1.86565, 2.8360000000000003, 2.4148400000000003, 1.719559999999998, 2.1156900000000003]

, 1.73797, 2.43209, 1.5714, 2.10017, 2.4537299999999997, 2.26646, 3.6021400000000003, 2.0
438400000000003, 1.59541, 2.67782, 2.025, 0.98195, 1.8893099999999998, 1.59927, 2.43872,
2.00073]

Mean absolute error:- 0.000210650516745788

Mean squared error:- 6.462779175032935e-08

Root mean squared error:- 0.0002542199672534188

r2 Score:- 0.9999997913031938

At random state 702 the model performs very well

At random state 702

Training score is

0.9999997104056013

Predicted value is [2.7545175 1.34738359 2.48656103 3.10714662 2.237751 1.97549034
1.89857619 2.46559903 3.03485882 2.02499463 2.50959627 2.70214738
2.45364028 1.83342883 1.95850471 2.11816651 2.31979968 0.9984449
2.8074289 1.68431502 1.44424233 1.85115226 3.19109778 1.86429518
1.42792025 1.8765426 3.08884499 1.26496831 2.47492983 2.5333919] and Actual value is [
2.75414, 1.34759, 2.48676, 3.10712, 2.237409999999997, 1.9757, 1.89894, 2.4657, 3.035, 2
.0251799999999998, 2.51011, 2.70201, 2.4537299999999997, 1.83302, 1.95812, 2.11773, 2.319
45, 0.99895, 2.8079099999999997, 1.68435, 1.44395, 1.851, 3.1913099999999996, 1.86399, 1.
42766, 1.8763400000000001, 3.08854, 1.26462, 2.4748900000000003, 2.5332]

Mean absolute error:- 0.00026010292104906575

Mean squared error:- 8.658134574348651e-08

Root mean squared error:- 0.00029424708281219463

r2 Score:- 0.9999997382457345

At random state 703 the model performs very well

At random state 703

Training score is

0.9999996933909169

Predicted value is [1.85108912 2.53919302 1.96973115 2.47494933 1.86605849 2.79071856
0.98176198 3.19109595 2.24188167 2.84826545 2.08474056 1.71923741
2.4536228 1.44417804 2.11355831 0.99841321 1.59567382 2.26647508
3.10712003 1.87878192 1.68426752 1.46506104 1.59893582 2.6344419
2.43242307 2.89321046 1.86428366 2.74280109 2.21120471 2.59438035] and Actual value is [
1.851, 2.539420000000002, 1.969940000000002, 2.474890000000003, 1.86565, 2.79094, 0.98
195, 3.191309999999996, 2.24173, 2.84848, 2.08528, 1.719559999999998, 2.453729999999999
7, 1.44395, 2.1139900000000003, 0.99895, 1.59541, 2.26646, 3.10712, 1.87877, 1.68435, 1.4
6494, 1.59927, 2.6343, 2.43209, 2.89319, 1.86399, 2.74255, 2.21126, 2.5945]

Mean absolute error:- 0.00020639759693749093

Mean squared error:- 6.356701915488927e-08

Root mean squared error:- 0.0002521250070002761

r2 Score:- 0.9999998038649832

At random state 704 the model performs very well

At random state 704

Training score is

0.9999996866781073

Predicted value is [2.09974227 0.6714241 1.44417755 2.83596743 2.20150917 1.99179053
2.2471552 1.89853953 1.87965894 2.51753042 2.44682382 1.46506551
2.82364728 3.19109028 1.59857044 0.89939652 2.86703142 1.86610833
1.84410172 2.20789263 1.87663743 0.65447378 3.26047014 2.7661108
2.63443149 1.73796539 1.58827423 2.79068864 2.44846029 1.94273951] and Actual value is [
2.10017, 0.67108, 1.44395, 2.836000000000003, 2.20173, 1.991720000000002, 2.24729, 1.89
894, 1.879959999999999, 2.517379999999997, 2.446490000000003, 1.46494, 2.82334, 3.1913
09999999996, 1.598879999999999, 0.89991, 2.86712, 1.86565, 1.84408, 2.20857, 1.87634000
0000001, 0.654289999999999, 3.26001, 2.76579, 2.6343, 1.7379900000000001, 1.58782, 2.79
094, 2.44876, 1.942959999999998]

Mean absolute error:- 0.00026698221284168213

Mean squared error:- 9.563534452294e-08

Root mean squared error:- 0.00030924964757124624

r2 Score:- 0.9999997826268251

At random state 705 the model performs very well

At random state 705
Training score is
0.9999997261890681
Predicted value is [1.88962013 2.32129748 2.22002927 2.20145555 2.0439975 2.24626433
2.24197131 2.08474309 1.95599715 3.26043158 3.60187902 2.00072173
1.75869936 1.34729748 1.86961355 1.68154056 2.76621571 2.43852683
1.89857344 1.68420822 2.7021958 2.264243 1.95255655 1.83348893
2.79077853 0.99837988 2.02496809 2.47496085 1.86431647 1.71919517] and Actual value is [
1.889309999999998, 2.3214200000000003, 2.21978, 2.20173, 2.0438400000000003, 2.246390000
0000003, 2.24173, 2.08528, 1.9563700000000002, 3.26001, 3.6021400000000003, 2.00073, 1.75
873, 1.34759, 1.8698400000000002, 1.68135, 2.76579, 2.43872, 1.89894, 1.68435, 2.70201, 2
.26425, 1.9521, 1.83302, 2.79094, 0.99895, 2.025179999999998, 2.4748900000000003, 1.8639
9, 1.7195599999999998]
Mean absolute error:- 0.0002590926617200617
Mean squared error:- 8.904727691556699e-08
Root mean squared error:- 0.0002984079035742301
r2 Score:- 0.9999996641056939

At random state 706 the model performs very well

At random state 706

Training score is

0.9999997369660725

Predicted value is [2.43853814 2.74279276 1.87657966 2.20148238 2.50957617 1.87965536
1.24113423 3.10726519 1.88954441 1.38093479 2.61951276 2.41448624
2.44217475 2.00077202 2.37152871 2.11554049 2.30874148 1.95074468
2.11002356 2.46512878 2.24183648 1.64834581 2.2462617 0.89938678
1.6815739 1.95294569 2.45183051 2.49199331 2.2641868 2.02492612] and Actual value is [
2.43872, 2.74255, 1.8763400000000001, 2.20173, 2.51011, 1.879959999999999, 1.24074, 3.10
709000000000004, 1.889309999999998, 1.38079, 2.61955, 2.4148400000000003, 2.44191, 2.0007
3, 2.3711900000000004, 2.1156900000000003, 2.30919, 1.95071, 2.11032, 2.465309999999997,
2.24173, 1.6488, 2.2463900000000003, 0.89991, 1.68135, 1.95335, 2.451759999999997, 2.492
04000000000003, 2.26425, 2.0251799999999998]
Mean absolute error:- 0.00023735121608861042
Mean squared error:- 7.687249681550147e-08
Root mean squared error:- 0.0002772588985325836
r2 Score:- 0.9999996187280802

At random state 707 the model performs very well

At random state 707

Training score is

0.9999997260018598

Predicted value is [2.11353864 2.51750727 3.19110101 2.26648786 2.47495591 1.87964746
3.08884541 1.63319651 1.68426856 2.11813786 2.04402244 1.62255376
1.59894758 1.26492525 1.59857132 2.86706789 1.8642713 1.88499155
2.46516383 2.43244674 2.59436822 2.09980024 1.8599455 1.34733959
2.24707522 2.23770745 2.6777344 1.44417558 1.71926436 2.45359919] and Actual value is [
2.1139900000000003, 2.517379999999997, 3.191309999999996, 2.26646, 2.4748900000000003,
1.879959999999999, 3.08854, 1.633279999999998, 1.68435, 2.11773, 2.0438400000000003, 1.
62215, 1.59927, 1.26462, 1.598879999999999, 2.86712, 1.86399, 1.885409999999998, 2.4653
099999999997, 2.43209, 2.5945, 2.10017, 1.8604, 1.34759, 2.24729, 2.237409999999997, 2.6
7782, 1.44395, 1.719559999999998, 2.453729999999997]
Mean absolute error:- 0.00024352540978599772
Mean squared error:- 7.515425454963824e-08
Root mean squared error:- 0.00027414276308091416
r2 Score:- 0.9999996892406751

At random state 708 the model performs very well

At random state 708

Training score is

0.9999997303206893

Predicted value is [1.92340582 1.46508242 2.09028055 1.62254733 2.18865019 1.87966238
2.61952117 1.95076147 2.74280674 1.34732589 1.6333059 2.86702747
1.73927397 1.96969904 2.46514681 2.24711197 1.84414415 2.82365649
2.30875767 1.76145509 1.21358837 2.47498357 1.80038315 3.03484914
1.57160907 1.75336965 1.95249384 1.88523471 2.63446964 2.85762462] and Actual value is [
1.92313, 1.46494, 2.090659999999997, 1.62215, 2.18896, 1.879959999999999, 2.61955, 1.95

071, 2.74255, 1.34759, 1.6332799999999998, 2.86712, 1.7393299999999998, 1.9699400000000000
2, 2.4653099999999997, 2.24743, 1.84408, 2.82334, 2.30919, 1.76145, 1.21305, 2.4748900000
000003, 1.8010099999999998, 3.035, 1.5714, 1.7536, 1.9521, 1.8850099999999999, 2.6343, 2.
85737]

Mean absolute error:- 0.00023367224449269604
Mean squared error:- 7.738758902421654e-08
Root mean squared error:- 0.00027818624880503445
r2 Score:- 0.9999996711530081

At random state 709 the model performs very well

At random state 709

Training score is
0.999999749121867

Predicted value is [1.89862833 2.74280165 1.69483776 2.86697308 1.61620082 1.34728084
2.32307986 2.00083126 2.61956032 1.88530329 2.24713504 1.95294634
1.76142096 2.27409991 2.02482894 1.94272657 2.48651211 1.86421934
1.38090694 2.45184355 1.92345006 2.04404431 1.5958087 1.8660741
1.64834272 2.75459344 2.67777773 2.41452269 2.50958023 2.27554966] and Actual value is [
1.89894, 2.74255, 1.6944, 2.86712, 1.615829999999999, 1.34759, 2.32323, 2.00073, 2.61955
, 1.8850099999999999, 2.24729, 1.95335, 1.76145, 2.27394, 2.025, 1.942959999999998, 2.48
676, 1.86399, 1.38079, 2.451759999999997, 1.92313, 2.0438400000000003, 1.59541, 1.86565,
1.6488, 2.75414, 2.67782, 2.4148400000000003, 2.51011, 2.27513]

Mean absolute error:- 0.000261728544573477
Mean squared error:- 8.924121720841687e-08
Root mean squared error:- 0.00029873268520270237
r2 Score:- 0.9999994703087204

At random state 710 the model performs very well

At random state 710

Training score is
0.9999997302947609

Predicted value is [0.98166309 1.78524136 2.4422315 2.24190294 2.24632679 2.11815813
2.89326386 2.6762146 1.84414579 1.87876354 1.73834475 2.86709752
2.79887732 2.26425284 3.26051651 2.05113356 1.80045485 2.2741138
2.24711895 2.83601026 1.71929292 2.75458243 2.12504794 1.88956785
1.24116169 2.2471267 1.88526725 1.63320358 1.57033337 2.32309455] and Actual value is [
0.98195, 1.78555, 2.44191, 2.24173, 2.2463900000000003, 2.11773, 2.89319, 2.67585, 1.8440
8, 1.87877, 1.73797, 2.86712, 2.79832, 2.26425, 3.26001, 2.05125, 1.801009999999998, 2.2
7394, 2.24729, 2.8360000000000003, 1.719559999999998, 2.75414, 2.12466, 1.88930999999999
98, 1.24074, 2.24743, 1.885009999999999, 1.633279999999998, 1.57059, 2.32323]

Mean absolute error:- 0.00024628945238234595
Mean squared error:- 8.801455102545416e-08
Root mean squared error:- 0.00029667246421846125
r2 Score:- 0.9999996584651392

At random state 711 the model performs very well

At random state 711

Training score is
0.999999711197973

Predicted value is [2.85762599 3.10734051 1.88521923 2.27548175 1.42788601 2.46513544
2.59439738 2.44223033 2.02496341 2.241899 3.17760544 2.1181619
2.63446288 2.2470879 1.71927289 2.49201167 2.44852324 2.82364814
1.68155128 3.03485925 2.45366699 2.50960617 2.84826408 2.04403984
2.47494676 2.53920297 1.8643026 1.73927876 1.89856922 2.51772906] and Actual value is [
2.85737, 3.107090000000004, 1.885009999999999, 2.27513, 1.42766, 2.465309999999997, 2.
5945, 2.44191, 2.02517999999998, 2.24173, 3.17728, 2.11773, 2.6343, 2.24743, 1.7195599
99999998, 2.4920400000000003, 2.44876, 2.82334, 1.68135, 3.035, 2.453729999999997, 2.510
11, 2.84848, 2.0438400000000003, 2.4748900000000003, 2.5394200000000002, 1.86399, 1.73932
9999999998, 1.89894, 2.51767]

Mean absolute error:- 0.0002263789303580843
Mean squared error:- 6.441822340480786e-08
Root mean squared error:- 0.0002538074534067269
r2 Score:- 0.9999996650617261

At random state 712 the model performs very well
At random state 712
Training score is
0.9999997049169557
Predicted value is [2.43849087 1.58829149 2.09023741 2.48651088 3.26046811 1.57168239
2.82364855 1.4279258 2.22002684 2.70213987 2.41452107 2.74281421
2.50986455 1.38099977 2.50957666 2.04407814 2.51749061 2.27412178
1.84419027 1.62256116 2.76611999 1.95292309 3.60185457 3.10723867
2.21126468 1.46510832 2.49200988 1.71924198 2.02498813 1.76140148] and Actual value is [
2.43872, 1.58782, 2.0906599999999997, 2.48676, 3.26001, 1.5714, 2.82334, 1.42766, 2.21978
, 2.70201, 2.4148400000000003, 2.74255, 2.51009, 1.38079, 2.51011, 2.0438400000000003, 2.
5173799999999997, 2.27394, 1.84408, 1.62215, 2.76579, 1.95335, 3.6021400000000003, 3.1070
900000000004, 2.21126, 1.46494, 2.4920400000000003, 1.7195999999999998, 2.0251799999999999
8, 1.76145]

Mean absolute error:- 0.0002540020231845519
Mean squared error:- 8.156612390064231e-08
Root mean squared error:- 0.00028559783595230955
r2 Score:- 0.9999997352965226

At random state 713 the model performs very well
At random state 713
Training score is
0.9999997582147867
Predicted value is [1.99175696 2.2079021 1.96971564 1.86610771 1.63324797 3.17770016
1.75336318 3.0888986 1.8600349 2.47503162 1.80036883 1.63808862
2.85770126 1.76144348 2.27413084 1.87965986 1.21354945 1.6483913
2.22002921 2.30875337 2.11561674 1.79309442 2.75457843 2.24716525
2.13137035 2.67620031 0.89935309 3.1071563 2.37158933 2.10997204] and Actual value is [
1.991720000000002, 2.20857, 1.969940000000002, 1.86565, 1.6332799999999998, 3.17728, 1.
7536, 3.08854, 1.8604, 2.474890000000003, 1.8010099999999998, 1.63794, 2.85737, 1.76145,
2.27394, 1.8799599999999999, 1.21305, 1.6488, 2.21978, 2.30919, 2.1156900000000003, 1.792
93, 2.75414, 2.24729, 2.1309, 2.67585, 0.89991, 3.10712, 2.371190000000004, 2.11032]

Mean absolute error:- 0.00030386090737278827
Mean squared error:- 1.2459096642551234e-07
Root mean squared error:- 0.0003529744557691283
r2 Score:- 0.9999995479727655

At random state 714 the model performs very well
At random state 714
Training score is
0.9999997453985281
Predicted value is [2.20150809 1.8003226 1.61622959 2.08471268 2.24184754 1.46179997
1.86431468 2.50993457 2.51749903 1.95250034 2.44848748 2.11559083
2.82367335 1.95839576 2.67617315 2.67775496 2.23769945 1.34734129
2.53918888 1.95289273 2.26424555 1.83338415 2.11004342 1.87660407
3.05123216 2.86700127 2.48661878 2.47500149 2.21120902 1.99181802] and Actual value is [
2.20173, 1.8010099999999998, 1.615829999999999, 2.08528, 2.24173, 1.46181, 1.86399, 2.51
009, 2.5173799999999997, 1.9521, 2.44876, 2.1156900000000003, 2.82334, 1.95812, 2.67585,
2.67782, 2.2374099999999997, 1.34759, 2.5394200000000002, 1.95335, 2.26425, 1.83302, 2.11
032, 1.8763400000000001, 3.05137, 2.86712, 2.48676, 2.4748900000000003, 2.21126, 1.991720
0000000002]

Mean absolute error:- 0.00023887840402298338
Mean squared error:- 8.21943854068012e-08
Root mean squared error:- 0.0002866956319981196
r2 Score:- 0.9999994996151313

At random state 715 the model performs very well
At random state 715
Training score is
0.9999996989251327
Predicted value is [2.67774866 1.7192253 1.86964255 1.79310838 2.21119901 2.67617631
3.19106171 2.2470817 1.5985874 1.73928479 1.46169125 2.59438398
1.68427025 2.75451671 2.30873498 1.87877955 2.44218094 2.20794028
1.96938801 2.18867512 1.38098534 0.65448622 2.82362319 1.99179919
2.3198449 2.2470696 0.67144413 2.43240117 3.03482552 1.89857083] and Actual value is [
2.67782, 1.7195599999999998, 1.8698400000000002, 1.79293, 2.21126, 2.67585, 3.19130999999
8, 1.76145]

99996, 2.24729, 1.5988799999999999, 1.7393299999999998, 1.46181, 2.5945, 1.68435, 2.75414 , 2.30919, 1.87877, 2.44191, 2.20857, 1.9696099999999999, 2.18896, 1.38079, 0.6542899999999999, 2.82334, 1.9917200000000002, 2.31945, 2.24743, 0.67108, 2.43209, 3.035, 1.89894]

Mean absolute error:- 0.0002418365537919594

Mean squared error:- 7.730954136815272e-08

Root mean squared error:- 0.00027804593391767614

r2 Score:- 0.999997756499116

At random state 716 the model performs very well

At random state 716

Training score is

0.999997366469239

Predicted value is [1.86605874 1.83345381 2.11814993 1.73799933 2.08479412 1.75332916 2.04403243 1.46507861 2.4749639 1.94276153 2.18863751 3.10732814 2.41449101 2.80743776 1.87659726 2.76616172 1.89857754 2.0248722 2.12373697 1.95073138 0.67142239 1.94940154 1.96973205 2.45186742 2.46514554 1.59859248 1.79313146 1.6948509 2.48662539 2.5174792] and Actual value is [1.86565, 1.83302, 2.11773, 1.7379900000000001, 2.08528, 1.7536, 2.0438400000000003, 1.46494, 2.4748900000000003, 1.9429599999999998, 2.18896, 3.1070900000000004, 2.41484000000000003, 2.8079099999999997, 1.8763400000000001, 2.76579, 1.89894, 2.025, 2.12367, 1.95071, 0.67108, 1.9493900000000002, 1.9699400000000002, 2.4517599999999997, 2.4653099999999997, 1.5988799999999999, 1.79293, 1.6944, 2.48676, 2.5173799999999997]

Mean absolute error:- 0.00024096147396845586

Mean squared error:- 7.861538041155716e-08

Root mean squared error:- 0.00028038434409138674

r2 Score:- 0.999996243261029

At random state 717 the model performs very well

At random state 717

Training score is

0.999997206313276

Predicted value is [2.26643536 1.26500342 2.46553219 1.59861923 2.24705073 1.84419285 2.11552043 1.85998632 2.08477546 1.38103233 1.86968403 3.03484038 2.59437999 1.96968199 2.86703971 2.09031614 2.2419232 2.12504 1.73832054 2.11814188 2.45361856 1.24122461 0.67145492 3.17755295 1.87879436 1.57168828 1.93115586 1.83352302 2.18866357 2.51743736] and Actual value is [2.26646, 1.26462, 2.4657, 1.5988799999999999, 2.24743, 1.84408, 2.1156900000000003, 1.8604, 2.08528, 1.38079, 1.8698400000000002, 3.035, 2.5945, 1.9699400000000002, 2.86712, 2.0906599999999997, 2.24173, 2.12466, 1.73797, 2.11773, 2.4537299999999997, 1.24074, 0.67108, 3.17728, 1.87877, 1.5714, 1.9312900000000002, 1.83302, 2.18896, 2.5173799999999997]

Mean absolute error:- 0.0002553261129248955

Mean squared error:- 8.504875874572617e-08

Root mean squared error:- 0.0002916312033128934

r2 Score:- 0.999996916693793

At random state 718 the model performs very well

At random state 718

Training score is

0.999997226516248

Predicted value is [1.73834913 1.61620944 2.23771825 1.6332567 1.9559433 3.10722659 3.05119843 2.53340818 1.75871078 0.65455058 1.62255915 2.24711769 1.59896215 2.86696523 1.63809639 2.67776012 1.64839083 1.88530995 2.46559656 2.27408711 2.7021412 2.41453093 1.71925892 1.88500803 1.44416737 2.20793329 2.11559608 2.43244518 1.89857725 2.32134615] and Actual value is [1.73797, 1.6158299999999999, 2.2374099999999997, 1.6332799999999998, 1.9563700000000002, 3.1070900000000004, 3.05137, 2.5332, 1.75873, 0.6542899999999999, 1.62215, 2.24729, 1.59927, 2.86712, 1.63794, 2.67782, 1.6488, 1.8850099999999999, 2.4657, 2.27394, 2.70201, 2.4148400000000003, 1.7195599999999998, 1.8854099999999998, 1.44395, 2.20857, 2.1156900000000003, 2.43209, 1.89894, 2.3214200000000003]

Mean absolute error:- 0.0002472037362716765

Mean squared error:- 8.160988469456161e-08

Root mean squared error:- 0.0002856744382939461

r2 Score:- 0.999997038583684

At random state 719 the model performs very well
At random state 719
Training score is
0.9999997502866472
Predicted value is [2.49199318 2.247134 2.02479719 2.51768303 2.3198715 2.11562389
1.86966 1.71927125 1.95078478 1.44419576 2.0846958 2.79067391
2.05101942 2.20785383 2.79869533 2.26646645 1.46180598 2.32131975
0.67147386 2.86703199 1.61626119 2.21121673 1.885044 1.68427601
2.10998757 1.58824581 1.93107584 1.80030401 2.11808089 2.12376259] and Actual value is [
2.4920400000000003, 2.24729, 2.025, 2.51767, 2.31945, 2.1156900000000003, 1.869840000000000
002, 1.7195599999999998, 1.95071, 1.44395, 2.08528, 2.79094, 2.05125, 2.20857, 2.79832, 2
.26646, 1.46181, 2.3214200000000003, 0.67108, 2.86712, 1.6158299999999999, 2.21126, 1.885
4099999999998, 1.68435, 2.11032, 1.58782, 1.9312900000000002, 1.8010099999999998, 2.11773
, 2.12367]
Mean absolute error:- 0.0002498945541265026
Mean squared error:- 1.0062255637368037e-07
Root mean squared error:- 0.0003172105867931907
r2 Score:- 0.9999994881479024

At random state 720 the model performs very well
At random state 720
Training score is
0.9999997138476691
Predicted value is [1.63813481 1.86001573 1.93107657 2.20793443 1.76139663 2.50985037
3.10702331 1.95071932 2.49207542 2.83592125 2.84820951 2.0510529
1.64841073 1.87665355 2.44214602 3.60176287 1.61622176 2.80729643
1.79312938 2.12501468 2.44840872 2.59434133 1.58832012 0.6545871
2.32306035 2.37160682 2.24628675 2.02496795 1.46184472 2.2471174] and Actual value is [
1.63794, 1.8604, 1.9312900000000002, 2.20857, 1.76145, 2.51009, 3.10712, 1.95071, 2.49204
000000000003, 2.8360000000000003, 2.84848, 2.05125, 1.6488, 1.8763400000000001, 2.44191, 3
.6021400000000003, 1.6158299999999999, 2.8079099999999997, 1.79293, 2.12466, 2.44876, 2.5
945, 1.58782, 0.6542899999999999, 2.32323, 2.3711900000000004, 2.2463900000000003, 2.0251
799999999998, 1.46181, 2.24729]
Mean absolute error:- 0.0002566827714587568
Mean squared error:- 9.145600837971367e-08
Root mean squared error:- 0.0003024169445975435
r2 Score:- 0.9999997112382846

At random state 721 the model performs very well
At random state 721
Training score is
0.9999997226485153
Predicted value is [2.22002964 1.9697398 2.21120892 2.2755059 2.04398916 1.88962129
1.88524594 3.10729614 1.21359609 2.76614862 1.24115104 3.60183337
1.87878644 2.44213975 1.86964716 2.74281771 3.19106116 2.43850113
2.26422735 2.24186243 2.24711294 2.49199066 1.78527479 1.80037853
2.45367136 2.24626626 2.37154901 3.0348231 1.99182884 2.20790406] and Actual value is [
2.21978, 1.9699400000000002, 2.21126, 2.27513, 2.0438400000000003, 1.8893099999999998, 1.
8850099999999999, 3.1070900000000004, 1.21305, 2.76579, 1.24074, 3.6021400000000003, 1.87
877, 2.44191, 1.8698400000000002, 2.74255, 3.1913099999999996, 2.43872, 2.26425, 2.24173,
2.24743, 2.4920400000000003, 1.78555, 1.8010099999999998, 2.4537299999999997, 2.246390000
000003, 2.3711900000000004, 3.035, 1.9917200000000002, 2.20857]
Mean absolute error:- 0.00024991350154823046
Mean squared error:- 8.849690255408679e-08
Root mean squared error:- 0.0002974842895920502
r2 Score:- 0.9999996680350121

At random state 722 the model performs very well
At random state 722
Training score is
0.9999997287890419
Predicted value is [1.58831779 0.65455598 2.18862126 2.50954815 2.67775 1.59588502
2.75456136 1.68436633 1.73798376 1.38097326 2.51753888 2.59439636
2.26646814 1.88496723 2.61959419 2.48652524 2.02488146 1.93111742
2.24629313 1.86975432 1.84417294 2.85758506 2.1314384 1.62258531
2.11818237 2.24185644 2.00083839 2.0639234 1.85117045 1.57037787] and Actual value is [

1.58782, 0.6542899999999999, 2.18896, 2.51011, 2.67782, 1.59541, 2.75414, 1.68435, 1.7379
900000000001, 1.38079, 2.5173799999999997, 2.5945, 2.26646, 1.8854099999999998, 2.61955,
2.48676, 2.025, 1.9312900000000002, 2.2463900000000003, 1.8698400000000002, 1.84408, 2.85
737, 2.1309, 1.62215, 2.11773, 2.24173, 2.00073, 2.06367, 1.851, 1.57059]

Mean absolute error:- 0.00023025109190430253
Mean squared error:- 8.15189593279358e-08
Root mean squared error:- 0.00028551525235604456
r2 Score:- 0.9999996269236393

At random state 723 the model performs very well

At random state 723

Training score is

0.999997695371452

Predicted value is [2.08473097 1.97542889 2.75457225 2.20788715 1.71920825 2.45183986
2.70215274 2.63445669 2.30875361 2.11555266 2.11805737 1.92338641
1.86962703 2.26643858 2.74282176 1.7533487 2.50960428 2.86696126
1.8985854 2.85764448 1.78520218 1.93114157 1.95072224 1.34726546
1.95245581 1.88958614 1.86606919 2.1135366 2.46555378 1.59893153] and Actual value is [
2.08528, 1.9757, 2.75414, 2.20857, 1.7195599999999998, 2.4517599999999997, 2.70201, 2.634
3, 2.30919, 2.1156900000000003, 2.11773, 1.92313, 1.8698400000000002, 2.26646, 2.74255, 1
.7536, 2.51011, 2.86712, 1.89894, 2.85737, 1.78555, 1.9312900000000002, 1.95071, 1.34759,
1.9521, 1.8893099999999998, 1.86565, 2.1139900000000003, 2.4657, 1.59927]

Mean absolute error:- 0.0002899010487400711
Mean squared error:- 1.0729097454452491e-07
Root mean squared error:- 0.00032755301028158007
r2 Score:- 0.9999992942685487

At random state 724 the model performs very well

At random state 724

Training score is

0.99999733189476

Predicted value is [2.22008391 2.45371541 2.04398425 2.23758058 1.75331989 3.10746664
1.87658357 2.41450776 1.86960292 2.27561581 2.32129158 3.03483114
1.68424032 1.86438717 2.26647979 1.97549407 2.50985946 1.57041348
1.4617111 1.95263288 2.76623289 2.53344157 2.05104115 2.67620737
2.8670194 2.70219436 2.61949863 1.94274812 2.02500748 2.20789442] and Actual value is [
2.21978, 2.4537299999999997, 2.0438400000000003, 2.2374099999999997, 1.7536, 3.1070900000
000004, 1.8763400000000001, 2.4148400000000003, 1.8698400000000002, 2.27513, 2.3214200000
000003, 3.035, 1.68435, 1.86399, 2.26646, 1.9757, 2.51009, 1.57059, 1.46181, 1.9521, 2.76
579, 2.5332, 2.05125, 2.67585, 2.86712, 2.70201, 2.61955, 1.9429599999999998, 2.025179999
9999998, 2.20857]

Mean absolute error:- 0.00024348250551305592
Mean squared error:- 8.213424204787211e-08
Root mean squared error:- 0.0002865907221943378
r2 Score:- 0.9999995276811455

At random state 725 the model performs very well

At random state 725

Training score is

0.999997178593926

Predicted value is [2.05108331 0.67140656 1.41715839 1.95596826 2.48661231 2.1098717
2.43246173 2.83599333 2.27553921 1.86963384 2.75466718 2.4468942
1.68160479 2.26412952 1.46178079 1.99180011 3.05115139 1.62261739
1.83342169 1.97541942 1.26505192 1.9234463 1.71928255 2.23231736
2.84828987 3.08887216 2.4385677 2.06394963 2.82365199 2.26640387] and Actual value is [
2.05125, 0.67108, 1.41723, 1.956370000000002, 2.48676, 2.11032, 2.43209, 2.8360000000000
003, 2.27513, 1.8698400000000002, 2.75414, 2.4464900000000003, 1.68135, 2.26425, 1.46181,
1.9917200000000002, 3.05137, 1.62215, 1.83302, 1.9757, 1.26462, 1.92313, 1.71955999999999
98, 2.2327, 2.84848, 3.08854, 2.43872, 2.06367, 2.82334, 2.26646]

Mean absolute error:- 0.0002690418141955068
Mean squared error:- 9.215302092146025e-08
Root mean squared error:- 0.00030356716047929205
r2 Score:- 0.9999996885703679

At random state 726 the model performs very well
At random state 726
Training score is
0.9999997551290175
Predicted value is [1.8788116 1.59900722 2.12510671 1.59579325 2.20793419 1.96946557
1.86612148 1.75875914 2.0998102 2.67618303 1.46507995 1.79312426
1.26503549 1.75338886 1.83340179 3.17764397 2.53343464 2.75459152
1.87663296 1.885292 1.44419968 2.448509 2.51774638 2.24181223
1.86427188 2.30876491 2.51753281 1.85110426 2.27413599 2.1181207] and Actual value is [
1.87877, 1.59927, 2.12466, 1.59541, 2.20857, 1.9696099999999999, 1.86565, 1.75873, 2.1001
7, 2.67585, 1.46494, 1.79293, 1.26462, 1.7536, 1.83302, 3.17728, 2.5332, 2.75414, 1.87634
00000000001, 1.8850099999999999, 1.44395, 2.44876, 2.51767, 2.24173, 1.86399, 2.30919, 2.
517379999999997, 1.851, 2.27394, 2.11773]

Mean absolute error:- 0.00027619231587895
Mean squared error:- 9.687505287787538e-08
Root mean squared error:- 0.0003112475748947699
r2 Score:- 0.9999994620001872

At random state 727 the model performs very well
At random state 727
Training score is
0.9999997293386342
Predicted value is [2.11815768 1.61615252 2.67774106 2.32375835 2.70213925 1.85992459
2.31976756 1.41718586 2.79072632 1.68426253 2.53917007 2.23231103
1.9694327 2.80740154 2.79885795 1.34733597 1.9754836 2.44220734
1.38096337 2.41449652 2.61953555 3.19112333 2.51750036 1.73835148
1.6483792 1.68155661 1.78524194 2.23768259 3.08883889 2.67617175] and Actual value is [
2.11773, 1.6158299999999999, 2.67782, 2.32407, 2.70201, 1.8604, 2.31945, 1.41723, 2.79094
, 1.68435, 2.5394200000000002, 2.2327, 1.9696099999999999, 2.8079099999999997, 2.79832, 1
.34759, 1.9757, 2.44191, 1.38079, 2.4148400000000003, 2.61955, 3.1913099999999996, 2.5173
799999999997, 1.73797, 1.6488, 1.68135, 1.78555, 2.237409999999997, 3.08854, 2.67585]

Mean absolute error:- 0.0002695736014564816
Mean squared error:- 9.02313177589882e-08
Root mean squared error:- 0.00030038528219436484
r2 Score:- 0.9999996561967739

At random state 728 the model performs very well
At random state 728
Training score is
0.9999996979385404
Predicted value is [2.23768554 1.69484302 1.87661835 3.08881086 2.12509663 2.50959677
2.02485595 2.67776028 0.65454553 2.11003215 2.85760041 1.63810042
2.47499873 1.76144312 1.85110784 2.05114519 2.11557966 2.86698752
2.5098788 1.94273308 1.68431985 2.83594841 2.89319324 1.42782955
2.41451276 2.79073561 2.24627967 2.51773052 1.59581846 2.7987425] and Actual value is [
2.2374099999999997, 1.6944, 1.8763400000000001, 3.08854, 2.12466, 2.51011, 2.025, 2.67782
, 0.6542899999999999, 2.11032, 2.85737, 1.63794, 2.474890000000003, 1.76145, 1.851, 2.05
125, 2.1156900000000003, 2.86712, 2.51009, 1.9429599999999998, 1.68435, 2.8360000000000000
3, 2.89319, 1.42766, 2.4148400000000003, 2.79094, 2.2463900000000003, 2.51767, 1.59541, 2
.79832]

Mean absolute error:- 0.00020509309051047013
Mean squared error:- 6.103552515880436e-08
Root mean squared error:- 0.00024705368881845167
r2 Score:- 0.9999997883271009

At random state 729 the model performs very well
At random state 729
Training score is
0.9999997373217658
Predicted value is [2.30872104 2.43248893 1.71925839 1.46172869 2.11551442 1.34726877
2.27408212 1.38092413 1.95593297 1.21358372 2.45364736 1.95845909
2.02497756 2.75458195 2.24629977 2.18862116 2.70213559 2.1100436
2.12373475 2.20144569 1.75331227 2.50992549 2.82364263 2.79886393
3.10730448 1.73929197 1.85107397 1.99174417 2.24709738 2.21122] and Actual value is [
2.30919, 2.43209, 1.719559999999998, 1.46181, 2.115690000000003, 1.34759, 2.27394, 1.38
079, 1.956370000000002, 1.21305, 2.453729999999997, 1.95812, 2.025179999999998, 2.7541

4, 2.2463900000000003, 2.18896, 2.70201, 2.11032, 2.12367, 2.20173, 1.7536, 2.51009, 2.82334, 2.79832, 3.1070900000000004, 1.7393299999999998, 1.851, 1.9917200000000002, 2.24743, 2.21126]

Mean absolute error:- 0.00024209794053230057
Mean squared error:- 8.153352463812794e-08
Root mean squared error:- 0.0002855407582782674
r2 Score:- 0.999999600726671

At random state 730 the model performs very well

At random state 730

Training score is

0.9999997644735918

Predicted value is [1.83352328 2.09031092 2.06395318 1.87880542 2.79888384 1.88496997 2.49204676 2.13141181 1.87969132 1.95853706 2.26645743 1.73836033 1.63809106 3.05135029 1.64834906 2.30871255 2.09985079 2.45362374 1.94941488 1.68157173 1.86605015 2.32304761 2.2014468 2.51749879 2.43861109 2.24630131 1.95246692 2.44685389 1.94276788 1.38100475] and Actual value is [1.83302, 2.0906599999999997, 2.06367, 1.87877, 2.79832, 1.885409999999998, 2.4920400000000003, 2.1309, 1.8799599999999999, 1.95812, 2.26646, 1.73797, 1.63794, 3.05137, 1.6488, 2.30919, 2.10017, 2.4537299999999997, 1.9493900000000002, 1.68135, 1.86565, 2.32323, 2.20173, 2.5173799999999997, 2.43872, 2.2463900000000003, 1.9521, 2.4464900000000003, 1.942959999999998, 1.38079]

Mean absolute error:- 0.00026210262604921356

Mean squared error:- 9.678654805907457e-08

Root mean squared error:- 0.0003110536488314464

r2 Score:- 0.9999992428223702

At random state 731 the model performs very well

At random state 731

Training score is

0.999999721886932

Predicted value is [2.46557451 1.86427965 1.79314161 2.06395918 3.03482936 0.98174292 2.04405617 1.69484523 2.53338088 1.63812326 1.57039518 2.12507005 1.96972564 1.62262196 1.41718859 1.93114942 1.88527031 2.44844097 2.84823853 2.24711058 2.2664567 1.64840706 2.13139655 1.57169113 1.68156993 3.19109037 2.83594888 2.24632822 2.08481901 1.24122617] and Actual value is [2.4657, 1.86399, 1.79293, 2.06367, 3.035, 0.98195, 2.0438400000000003, 1.6944, 2.5332, 1.63794, 1.57059, 2.12466, 1.9699400000000002, 1.62215, 1.41723, 1.9312900000000002, 1.8850099999999999, 2.44876, 2.84848, 2.24729, 2.26646, 1.6488, 2.1309, 1.5714, 1.68135, 3.19130999999996, 2.8360000000000003, 2.2463900000000003, 2.08528, 1.24074]

Mean absolute error:- 0.00024920498519994674

Mean squared error:- 8.017586568779985e-08

Root mean squared error:- 0.0002831534313544511

r2 Score:- 0.9999996918262547

At random state 732 the model performs very well

At random state 732

Training score is

0.9999997226867944

Predicted value is [2.00078555 2.37163765 3.26050941 3.08890192 2.67622815 1.61619773 1.86429673 2.2200381 2.32136658 1.88958064 2.4422382 2.84830723 2.04405762 2.79884006 2.18870245 2.50994098 1.63815189 1.63321139 1.93111346 1.59570181 2.23776017 2.24192942 1.75871711 2.32310357 2.20148512 2.51757018 2.70221725 1.38099073 1.57034414 2.67778247] and Actual value is [2.00073, 2.3711900000000004, 3.26001, 3.08854, 2.67585, 1.615829999999999, 1.86399, 2.21978, 2.321420000000003, 1.8893099999999998, 2.44191, 2.84848, 2.043840000000003, 2.79832, 2.218896, 2.51009, 1.63794, 1.6332799999999998, 1.9312900000000002, 1.59541, 2.237409999999997, 2.24173, 1.75873, 2.32323, 2.20173, 2.5173799999999997, 2.70201, 1.38079, 1.57059, 2.67782]

Mean absolute error:- 0.00024028979826338966

Mean squared error:- 7.428353606844601e-08

Root mean squared error:- 0.00027255006158217245

r2 Score:- 0.9999996653029339

At random state 733 the model performs very well
At random state 733
Training score is
0.9999997208091023
Predicted value is [2.27549976 1.94276628 1.86005888 1.58831366 1.95075123 1.99184138
1.42786177 0.8994246 2.32136819 1.26497299 2.44684085 1.78523506
2.84825482 1.95851668 1.8660768 1.88535942 1.73927543 3.10730358
2.51757945 2.49211887 2.5177575 2.61963338 2.45189815 1.59587585
2.27412882 1.44422915 3.03487521 2.32307804 1.92344247 2.23776837] and Actual value is [
2.27513, 1.9429599999999998, 1.8604, 1.58782, 1.95071, 1.991720000000002, 1.42766, 0.899
91, 2.3214200000000003, 1.26462, 2.4464900000000003, 1.78555, 2.84848, 1.95812, 1.86565,
1.8850099999999999, 1.7393299999999998, 3.1070900000000004, 2.5173799999999997, 2.4920400
00000003, 2.51767, 2.61955, 2.4517599999999997, 1.59541, 2.27394, 1.44395, 3.035, 2.3232
3, 1.92313, 2.2374099999999997]
Mean absolute error:- 0.00024845337761581675
Mean squared error:- 8.041871843658014e-08
Root mean squared error:- 0.0002835819430721571
r2 Score:- 0.9999996855707083

At random state 734 the model performs very well
At random state 734
Training score is
0.9999997437739421
Predicted value is [2.05100457 1.80038694 1.78521128 2.32373836 1.73832964 2.20145566
2.86699455 3.05116506 1.3473689 2.44214804 2.82358982 2.89321276
1.95293094 1.42784044 2.50987708 1.58829255 2.80730652 2.09974966
1.86000877 2.02481499 1.26498718 2.53916627 1.95591776 2.79065219
2.06380447 1.7379094 1.9694524 1.85101654 2.44684475 1.73924954] and Actual value is [
2.05125, 1.8010099999999998, 1.78555, 2.32407, 1.73797, 2.20173, 2.86712, 3.05137, 1.3475
9, 2.44191, 2.82334, 2.89319, 1.95335, 1.42766, 2.51009, 1.58782, 2.8079099999999997, 2.1
0017, 1.8604, 2.025, 1.26462, 2.5394200000000002, 1.9563700000000002, 2.79094, 2.06367, 1
.7379900000000001, 1.9696099999999999, 1.851, 2.4464900000000003, 1.7393299999999998]
Mean absolute error:- 0.0002768446077356712
Mean squared error:- 9.925021736998137e-08
Root mean squared error:- 0.00031504002502853723
r2 Score:- 0.9999995746033304

At random state 735 the model performs very well
At random state 735
Training score is
0.9999997126077955
Predicted value is [1.95846607 1.8849734 1.88529985 2.09024958 2.02480261 1.21356119
1.34727792 1.57030905 3.05127273 2.4518979 1.73800833 1.71920666
2.83597781 2.18865034 2.44678475 3.17765081 2.23778251 1.58825445
2.09976921 2.49210229 0.99839532 1.75335859 3.10725491 2.76610777
1.26493562 0.65448664 1.64835428 1.87657288 1.80036031 1.41715342] and Actual value is [
1.95812, 1.8854099999999998, 1.8850099999999999, 2.0906599999999997, 2.025, 1.21305, 1.34
759, 1.57059, 3.05137, 2.4517599999999997, 1.7379900000000001, 1.7195599999999998, 2.8360
000000000003, 2.18896, 2.4464900000000003, 3.17728, 2.2374099999999997, 1.58782, 2.10017,
2.4920400000000003, 0.99895, 1.7536, 3.1070900000000004, 2.76579, 1.26462, 0.654289999999
9999, 1.6488, 1.8763400000000001, 1.8010999999999998, 1.41723]
Mean absolute error:- 0.00029515710636160246
Mean squared error:- 1.1063811120457742e-07
Root mean squared error:- 0.00032623076776969
r2 Score:- 0.9999997049397495

At random state 736 the model performs very well
At random state 736
Training score is
0.9999997479242981
Predicted value is [1.96973082 2.41448036 2.83590494 2.46516568 1.73805108 1.85994342
2.30874591 2.3230531 1.87659899 1.42783702 2.32130545 2.37156533
1.99181288 1.46180513 1.2135774 3.10729134 1.95251455 1.75866578
2.53916153 1.80034021 1.63813721 2.0847299 2.48664852 1.63328086
2.61951278 2.11352681 1.34731701 2.12500092 1.97548762 2.53339046] and Actual value is [
1.9699400000000002, 2.4148400000000003, 2.8360000000000003, 2.4653099999999997, 1.7379900

000000001, 1.8604, 2.30919, 2.32323, 1.8763400000000001, 1.42766, 2.3214200000000003, 2.3
711900000000004, 1.991720000000002, 1.46181, 1.21305, 3.107090000000004, 1.9521, 1.7587
3, 2.5394200000000002, 1.8010099999999998, 1.63794, 2.08528, 2.48676, 1.6332799999999998,
2.61955, 2.113990000000003, 1.34759, 2.12466, 1.9757, 2.5332]

Mean absolute error:- 0.00024943569969522185
Mean squared error:- 9.18934600742885e-08
Root mean squared error:- 0.0003031393410204101
r2 Score:- 0.9999995361426706

At random state 737 the model performs very well

At random state 737

Training score is
0.999999697192544

Predicted value is [1.88958389 2.53921671 2.32307122 1.96940727 1.86003936 1.58826626
2.11809886 2.21123457 3.05127316 3.1776522 0.67145982 1.26502167
0.6544995 1.68429986 2.74284663 3.26045303 2.49200763 2.45365411
3.0888331 1.87882053 1.95245496 2.41451965 1.95289309 1.95078392
2.82368867 1.59861313 1.21363934 1.88503934 1.93113671 2.08472192] and Actual value is [
1.889309999999998, 2.539420000000002, 2.32323, 1.969609999999999, 1.8604, 1.58782, 2.1
1773, 2.21126, 3.05137, 3.17728, 0.67108, 1.26462, 0.654289999999999, 1.68435, 2.74255,
3.26001, 2.4920400000000003, 2.453729999999997, 3.08854, 1.87877, 1.9521, 2.414840000000
0003, 1.95335, 1.95071, 2.82334, 1.598879999999999, 1.21305, 1.885409999999998, 1.93129
0000000002, 2.08528]

Mean absolute error:- 0.0002744882445014622
Mean squared error:- 9.944383318344251e-08
Root mean squared error:- 0.000315347162954485
r2 Score:- 0.999997625958367

At random state 738 the model performs very well

At random state 738

Training score is
0.999997083087693

Predicted value is [2.2470891 2.48661634 2.32378352 1.73798247 1.96940435 2.12373052
2.24188247 1.38095267 2.5174746 2.44683713 2.26420455 1.6483449
2.49200657 3.10732315 2.06393778 2.44219595 2.4749626 1.59576207
1.96968001 2.3230689 3.6018599 3.08881998 2.26643866 1.68156288
1.5989989 1.95596566 1.88525966 2.43858633 2.45365835 2.41448499] and Actual value is [
2.24729, 2.48676, 2.32407, 1.737990000000001, 1.969609999999999, 2.12367, 2.24173, 1.38
079, 2.517379999999997, 2.4464900000000003, 2.26425, 1.6488, 2.4920400000000003, 3.10709
0000000004, 2.06367, 2.44191, 2.474890000000003, 1.59541, 1.969940000000002, 2.32323,
3.602140000000003, 3.08854, 2.26646, 1.68135, 1.59927, 1.956370000000002, 1.88500999999
9999, 2.43872, 2.453729999999997, 2.4148400000000003]

Mean absolute error:- 0.00020359980951458004
Mean squared error:- 5.533729508455668e-08
Root mean squared error:- 0.00023523880437665185
r2 Score:- 0.999997512284269

At random state 739 the model performs very well

At random state 739

Training score is
0.999997360346033

Predicted value is [1.85107431 2.31976061 1.96972617 1.42785198 1.75332156 3.60183406
2.85761496 1.78523684 2.21122773 1.89853877 2.84825055 2.09979651
1.64837594 2.4920483 2.44220149 1.86424877 1.73833079 1.76139165
2.51751044 2.76612236 2.45362059 1.59896791 2.24630268 2.11003778
2.04402406 2.1237492 1.95845325 1.88524786 2.30870171 1.95595018] and Actual value is [
1.851, 2.31945, 1.969940000000002, 1.42766, 1.7536, 3.602140000000003, 2.85737, 1.78555
, 2.21126, 1.89894, 2.84848, 2.10017, 1.6488, 2.492040000000003, 2.44191, 1.86399, 1.737
97, 1.76145, 2.517379999999997, 2.76579, 2.453729999999997, 1.59927, 2.2463900000000003
, 2.11032, 2.043840000000003, 2.12367, 1.95812, 1.885009999999999, 2.30919, 1.956370000
000002]

Mean absolute error:- 0.0002452595185889657
Mean squared error:- 7.579345019937431e-08
Root mean squared error:- 0.00027530610272817114
r2 Score:- 0.9999996264371726

At random state 740 the model performs very well

At random state 740

Training score is

0.999999741056892

Predicted value is [3.2604531 2.49200354 1.76142361 1.87657756 2.11353743 1.85998964
1.97546972 1.96940947 2.61951173 1.95844318 2.06393921 2.23233988
2.31980338 2.26422009 2.08479682 2.59440243 1.86966239 1.85110407
2.44219121 2.51769789 1.44416074 2.7906986 1.6815308 2.75457963
2.27547102 2.76618956 2.86705337 2.48661128 1.71926847 2.80743897] and Actual value is [
3.26001, 2.4920400000000003, 1.76145, 1.8763400000000001, 2.1139900000000003, 1.8604, 1.9
757, 1.9696099999999999, 2.61955, 1.95812, 2.06367, 2.2327, 2.31945, 2.26425, 2.08528, 2.
5945, 1.8698400000000002, 1.851, 2.44191, 2.51767, 1.44395, 2.79094, 1.68135, 2.75414, 2.
27513, 2.76579, 2.86712, 2.48676, 1.7195599999999998, 2.8079099999999997]

Mean absolute error:- 0.0002457968136237406

Mean squared error:- 8.194382629260985e-08

Root mean squared error:- 0.0002862583209141873

r2 Score:- 0.9999995460512058

At random state 741 the model performs very well

At random state 741

Training score is

0.9999997358924284

Predicted value is [1.34732284 2.70216275 1.84411084 1.87962934 2.89319872 1.87873112
2.53916741 2.85761438 3.03481144 2.84825866 1.85997962 1.26497195
1.73925435 2.51763482 1.95593247 1.46502396 2.08471081 2.09027249
1.95071821 2.82362786 1.97547511 2.45361253 2.30871292 2.24710241
2.06384108 3.05119901 2.4385066 2.23767073 2.2078978 2.1135086] and Actual value is [
1.34759, 2.70201, 1.84408, 1.8799599999999999, 2.89319, 1.87877, 2.539420000000002, 2.85
737, 3.035, 2.84848, 1.8604, 1.26462, 1.7393299999999998, 2.51767, 1.9563700000000002, 1.
46494, 2.08528, 2.0906599999999997, 1.95071, 2.82334, 1.9757, 2.453729999999997, 2.30919
, 2.24729, 2.06367, 3.05137, 2.43872, 2.2374099999999997, 2.20857, 2.1139900000000003]

Mean absolute error:- 0.00024567136721870644

Mean squared error:- 8.868514201814305e-08

Root mean squared error:- 0.0002978005070817426

r2 Score:- 0.999999606319473

At random state 742 the model performs very well

At random state 742

Training score is

0.9999997188229476

Predicted value is [1.24121928 2.53921042 2.79064002 0.9816771 2.18865987 1.79317261
1.46510192 1.76136714 1.86611108 2.26418035 2.50957838 2.75456853
2.11356493 2.61952254 0.6714008 2.10998182 2.21125367 1.42789682
1.99176933 1.38099254 1.63809703 1.71935128 1.75332951 2.00082958
2.46511234 3.26046599 2.13143332 2.41450993 2.44225058 2.43249906] and Actual value is [
1.24074, 2.539420000000002, 2.79094, 0.98195, 2.18896, 1.79293, 1.46494, 1.76145, 1.8656
5, 2.26425, 2.51011, 2.75414, 2.113990000000003, 2.61955, 0.67108, 2.11032, 2.21126, 1.4
2766, 1.991720000000002, 1.38079, 1.63794, 1.719559999999998, 1.7536, 2.00073, 2.465309
999999997, 3.26001, 2.1309, 2.414840000000003, 2.44191, 2.43209]

Mean absolute error:- 0.0002716387125273445

Mean squared error:- 9.590406751092595e-08

Root mean squared error:- 0.0003096838186133172

r2 Score:- 0.9999996944176882

At random state 743 the model performs very well

At random state 743

Training score is

0.9999996802088201

Predicted value is [1.85994253 2.0007514 2.86693616 2.53343264 1.63319668 2.32134151
2.83596384 0.67142915 3.26042703 2.3238063 1.71926384 1.94266969
1.42780381 3.08885964 2.45191368 1.87663882 0.65459426 1.68429661
1.21366509 2.67624947 1.83347779 2.11007083 2.79885358 2.84829653
2.70222653 2.50992172 2.11348585 1.94934174 3.05126087 2.22005689] and Actual value is [
1.8604, 2.00073, 2.86712, 2.5332, 1.633279999999998, 2.3214200000000003, 2.836000000000000

003, 0.67108, 3.26001, 2.32407, 1.7195599999999998, 1.9429599999999998, 1.42766, 3.08854, 2.4517599999999997, 1.8763400000000001, 0.6542899999999999, 1.68435, 1.21305, 2.67585, 1.83302, 2.11032, 2.79832, 2.84848, 2.70201, 2.51009, 2.1139900000000003, 1.9493900000000000, 2, 3.05137, 2.21978]

Mean absolute error:- 0.00025816909014438896
Mean squared error:- 9.096044786991363e-08
Root mean squared error:- 0.00030159649843775315
r2 Score:- 0.999997847449509

At random state 744 the model performs very well

At random state 744

Training score is

0.999997302704753

Predicted value is [1.75872143 3.19115535 2.49206012 2.79881477 2.05106642 1.86420878 0.98162634 1.95848559 2.51763091 1.93108259 1.75331878 1.58830299 2.4749648 2.02498203 1.64833489 1.96970114 2.32133036 2.24180513 2.82361238 2.1100276 2.67613852 2.80735238 2.24632571 2.13143291 1.87969266 1.76134976 2.59438841 2.23774751 1.38095332 2.4866301] and Actual value is [1.75873, 3.1913099999999996, 2.4920400000000003, 2.79832, 2.05125, 1.86399, 0.98195, 1.95812, 2.51767, 1.9312900000000002, 1.7536, 1.58782, 2.4748900000000003, 2.0251799999999998, 1.6488, 1.9699400000000002, 2.3214200000000003, 2.24173, 2.82334, 2.11032, 2.67585, 2.8079099999999997, 2.2463900000000003, 2.1309, 1.8799599999999999, 1.76145, 2.5945, 2.2374099999999997, 1.38079, 2.48676]

Mean absolute error:- 0.0002346658908810621

Mean squared error:- 7.90455620065674e-08

Root mean squared error:- 0.00028115042594057613

r2 Score:- 0.999996446322951

At random state 745 the model performs very well

At random state 745

Training score is

0.999997211817915

Predicted value is [1.69488918 2.09977304 3.03480283 1.68153422 2.05105635 1.89856264 1.57156983 1.63325941 1.63811868 2.50964985 0.98177909 2.23229676 1.96940841 3.60183733 2.20790002 2.51768851 0.9984338 1.34730854 2.44843905 1.87960933 1.62254745 1.71921853 2.53340654 2.53915221 1.73927021 2.676184 1.8896184 3.10734188 2.18862166 1.86960504] and Actual value is [1.6944, 2.10017, 3.035, 1.68135, 2.05125, 1.89894, 1.5714, 1.6332799999999998, 1.63794, 2.51011, 0.98195, 2.2327, 1.9696099999999999, 3.6021400000000003, 2.20857, 2.51767, 0.99895, 1.34759, 2.44876, 1.8799599999999999, 1.62215, 1.7195599999999998, 2.5332, 2.53942000000002, 1.7393299999999998, 2.67585, 1.8893099999999998, 3.1070900000000004, 2.18896, 1.8698400000000002]

Mean absolute error:- 0.00028815178735137984

Mean squared error:- 1.0332446488226823e-07

Root mean squared error:- 0.00032144123083740865

r2 Score:- 0.99999693254167

At random state 746 the model performs very well

At random state 746

Training score is

0.99999725384592

Predicted value is [2.24629914 2.02483661 1.85108905 1.46178425 2.67778087 1.86426234 1.75869703 2.43246714 2.51769162 1.89855124 2.37160531 1.59896216 1.86608131 2.50992388 2.4145386 1.38094854 2.23775101 2.21125392 3.26050022 1.93108067 1.46507621 2.85764652 2.45366333 2.12503329 1.75334926 2.89324951 1.97549155 2.23236028 2.49207944 1.76139283] and Actual value is [2.2463900000000003, 2.025, 1.851, 1.46181, 2.67782, 1.86399, 1.75873, 2.43209, 2.51767, 1.89894, 2.371190000000004, 1.59927, 1.86565, 2.51009, 2.4148400000000003, 1.38079, 2.2374099999999997, 2.21126, 3.26001, 1.9312900000000002, 1.46494, 2.85737, 2.4537299999999997, 2.12466, 1.7536, 2.89319, 1.9757, 2.2327, 2.4920400000000003, 1.76145]

Mean absolute error:- 0.0002045288744639071

Mean squared error:- 6.26790155106471e-08

Root mean squared error:- 0.00025035777501537093

r2 Score:- 0.999996851524008

At random state 747 the model performs very well
At random state 747
Training score is
0.9999997286640707
Predicted value is [1.58828885 1.85108103 2.24709718 1.46181446 1.88523949 2.05113244
2.44687416 2.89321782 2.11553581 1.68158433 1.9427436 2.51747699
1.96965485 2.43860559 2.51762898 1.95847204 1.42784067 0.98168423
1.83346861 1.57034534 2.11002327 2.46553289 1.73835813 2.02498405
2.61952044 2.20143956 2.63446123 1.99174566 2.11351719 2.45182759] and Actual value is [
1.58782, 1.851, 2.24743, 1.46181, 1.8850099999999999, 2.05125, 2.4464900000000003, 2.8931
9, 2.1156900000000003, 1.68135, 1.9429599999999998, 2.5173799999999997, 1.9699400000000000
2, 2.43872, 2.51767, 1.95812, 1.42766, 0.98195, 1.83302, 1.57059, 2.11032, 2.4657, 1.7379
7, 2.0251799999999998, 2.61955, 2.20173, 2.6343, 1.9917200000000002, 2.1139900000000003,
2.451759999999997]

Mean absolute error:- 0.00021252132349558472
Mean squared error:- 6.387857102653183e-08
Root mean squared error:- 0.0002527421037867095
r2 Score:- 0.999999633138657

At random state 748 the model performs very well
At random state 748
Training score is

0.9999997359492632
Predicted value is [1.86430319 1.87659793 0.98183864 2.76611591 2.32306618 2.2462886
1.57163976 2.08471933 3.10709776 2.31983209 2.51748664 1.86969324
2.09975371 2.51765154 1.79317324 1.87880225 1.213657 1.88958194
1.59892628 1.26502217 2.53919802 2.23773968 2.67617919 2.50962399
2.44218143 2.32134368 2.89322702 1.92338628 2.23237254 2.02495267] and Actual value is [
1.86399, 1.8763400000000001, 0.98195, 2.76579, 2.32323, 2.2463900000000003, 1.5714, 2.085
28, 3.10712, 2.31945, 2.517379999999997, 1.8698400000000002, 2.10017, 2.51767, 1.79293,
1.87877, 1.21305, 1.889309999999998, 1.59927, 1.26462, 2.5394200000000002, 2.23740999999
9997, 2.67585, 2.51011, 2.44191, 2.321420000000003, 2.89319, 1.92313, 2.2327, 2.0251799
999999998]

Mean absolute error:- 0.0002543174696524135
Mean squared error:- 8.785671303675191e-08
Root mean squared error:- 0.00029640633096604383
r2 Score:- 0.9999996280862142

At random state 749 the model performs very well
At random state 749
Training score is

0.9999997068710355
Predicted value is [0.89934688 2.18864337 2.2323219 1.88502389 2.74280119 3.08889633
2.4656356 1.64839777 0.98169831 2.8933329 2.0847789 1.9525498
2.30876538 3.60189334 2.53917707 2.46517981 1.38093121 1.8643163
2.44219282 1.68423159 1.41717284 2.4519035 2.70217392 1.8660466
1.6948516 2.24187663 2.00078366 3.26047734 1.87660652 2.47498925] and Actual value is [
0.89991, 2.18896, 2.2327, 1.885409999999998, 2.74255, 3.08854, 2.4657, 1.6488, 0.98195,
2.89319, 2.08528, 1.9521, 2.30919, 3.602140000000003, 2.539420000000002, 2.465309999999
9997, 1.38079, 1.86399, 2.44191, 1.68435, 1.41723, 2.451759999999997, 2.70201, 1.86565,
1.6944, 2.24173, 2.00073, 3.26001, 1.876340000000001, 2.474890000000003]

Mean absolute error:- 0.0002740977766198342
Mean squared error:- 9.585893165724852e-08
Root mean squared error:- 0.000309610935945823
r2 Score:- 0.9999997429060238

At random state 750 the model performs very well
At random state 750
Training score is

0.9999997310570966
Predicted value is [1.68155279 2.13141114 1.88494494 2.12507592 1.93108128 1.8894896
1.73794154 2.4422481 3.10714602 2.74278253 1.44421738 2.70206544
0.89938924 2.50953592 1.97540547 1.46510232 1.86417425 2.23775324
0.99846469 1.9234301 2.44685645 3.19114516 2.23235035 1.79317206
2.61956991 2.84824616 2.4485293 1.64827863 2.18862439 2.63446439] and Actual value is [

1.68135, 2.1309, 1.8854099999999998, 2.12466, 1.9312900000000002, 1.8893099999999998, 1.7
3799000000000001, 2.44191, 3.10712, 2.74255, 1.44395, 2.70201, 0.89991, 2.51011, 1.9757, 1
.46494, 1.86399, 2.2374099999999997, 0.99895, 1.92313, 2.4464900000000003, 3.191309999999
996, 2.2327, 1.79293, 2.61955, 2.84848, 2.44876, 1.6488, 2.18896, 2.6343]

Mean absolute error:- 0.0002814854545765096

Mean squared error:- 1.0222473551282185e-07

Root mean squared error:- 0.0003197260319598982

r2 Score:- 0.9999996578129097

At random state 751 the model performs very well

At random state 751

Training score is

0.9999997102667793

Predicted value is [2.47493468 3.10710413 2.44844198 2.20144756 2.43245809 1.21352476
1.44420921 1.87966824 2.09023584 3.19105852 2.12376436 1.63321684
2.46515617 2.49204633 1.93107934 2.84822608 2.26647322 1.8765933
2.79059658 3.10729662 2.12504179 2.3086968 2.89322324 1.88500227
2.31978744 2.44686286 2.24184027 2.51750348 2.21122512 3.05119705] and Actual value is [
2.4748900000000003, 3.10712, 2.44876, 2.20173, 2.43209, 1.21305, 1.44395, 1.87995999999999
999, 2.0906599999999997, 3.1913099999999996, 2.12367, 1.6332799999999998, 2.46530999999999
997, 2.4920400000000003, 1.9312900000000002, 2.84848, 2.26646, 1.87634000000000001, 2.7909
4, 3.1070900000000004, 2.12466, 2.30919, 2.89319, 1.8854099999999998, 2.31945, 2.44649000
00000003, 2.24173, 2.5173799999999997, 2.21126, 3.05137]

Mean absolute error:- 0.00022657088696299195

Mean squared error:- 7.259011416753573e-08

Root mean squared error:- 0.0002694255261988658

r2 Score:- 0.9999996832330889

At random state 752 the model performs very well

At random state 752

Training score is

0.9999997420725728

Predicted value is [2.05113423 1.68160259 1.84418915 2.31979713 1.92341117 2.45184051
1.86003896 1.97546972 2.41450242 2.835966 2.50959776 1.96939741
2.47496491 1.88503571 2.85765058 2.27410136 1.79318065 1.78529589
0.67147505 1.75340936 2.08474328 2.63448186 1.76150417 1.61626404
1.26505004 1.73931608 1.21366916 2.70215856 2.13136803 1.95244985] and Actual value is [
2.05125, 1.68135, 1.84408, 2.31945, 1.92313, 2.4517599999999997, 1.8604, 1.9757, 2.414840
0000000003, 2.8360000000000003, 2.51011, 1.9696099999999999, 2.4748900000000003, 1.885409
9999999998, 2.85737, 2.27394, 1.79293, 1.78555, 0.67108, 1.7536, 2.08528, 2.6343, 1.76145
, 1.6158299999999999, 1.26462, 1.7393299999999998, 1.21305, 2.70201, 2.1309, 1.9521]

Mean absolute error:- 0.0002697333211630533

Mean squared error:- 9.719947343633763e-08

Root mean squared error:- 0.00031176830088438693

r2 Score:- 0.9999995777166826

At random state 753 the model performs very well

At random state 753

Training score is

0.9999997646586078

Predicted value is [1.59901122 2.22007961 2.44684811 2.11357237 1.7930731 2.12511697
2.8932317 2.76617584 1.63810307 2.207925 2.45372248 2.46519003
1.5957856 2.27552855 2.12378012 2.1313834 2.46562507 1.86968087
2.47501445 2.11811966 1.71924558 1.96975041 2.61957705 1.63330021
2.37159862 2.53343602 1.78521476 2.30875847 2.26648981 2.3197797] and Actual value is [
1.59927, 2.21978, 2.4464900000000003, 2.1139900000000003, 1.79293, 2.12466, 2.89319, 2.76
579, 1.63794, 2.20857, 2.4537299999999997, 2.4653099999999997, 1.59541, 2.27513, 2.12367,
2.1309, 2.4657, 1.8698400000000002, 2.4748900000000003, 2.11773, 1.7195599999999998, 1.96
99400000000002, 2.61955, 1.6332799999999998, 2.3711900000000004, 2.5332, 1.78555, 2.30919
, 2.26646, 2.31945]

Mean absolute error:- 0.000257844477424

Mean squared error:- 9.357214190767179e-08

Root mean squared error:- 0.0003058956389157449

r2 Score:- 0.9999992209507219

At random state 754 the model performs very well
At random state 754
Training score is
0.9999997131346452
Predicted value is [2.24632062 2.85764586 1.44419585 2.31982608 2.23772743 1.42788485
2.27412752 1.73834448 2.70218499 2.27541379 3.10710497 1.68431169
2.11002774 0.98174821 1.86000781 1.24118694 1.97552239 1.80039691
1.84413116 1.86611648 1.99176891 2.49205554 2.13139122 2.59438823
1.94274821 1.88524858 3.19111573 2.76612466 3.60182317 1.9559664] and Actual value is [
2.2463900000000003, 2.85737, 1.44395, 2.31945, 2.237409999999997, 1.42766, 2.27394, 1.73
797, 2.70201, 2.27513, 3.10712, 1.68435, 2.11032, 0.98195, 1.8604, 1.24074, 1.9757, 1.801
0099999999998, 1.84408, 1.86565, 1.9917200000000002, 2.4920400000000003, 2.1309, 2.5945,
1.9429599999999998, 1.8850099999999999, 3.1913099999999996, 2.76579, 3.6021400000000003,
1.9563700000000002]

Mean absolute error:- 0.0002530756425052775
Mean squared error:- 8.669750303985816e-08
Root mean squared error:- 0.0002944443971955625
r2 Score:- 0.9999997364976723

At random state 755 the model performs very well
At random state 755
Training score is
0.9999997064033863
Predicted value is [2.53341969 0.65450426 0.99847549 2.86706738 2.09029466 2.89324204
1.73796812 1.38097408 2.47497989 2.61956382 1.58827376 1.4650579
2.44220717 1.57034074 2.49207263 1.95596438 2.48664269 2.79880431
2.22002648 1.24117962 1.62259014 3.08887102 1.85996383 1.95245565
1.87966914 1.63813469 1.93110546 2.74277837 2.80738389 1.78525641] and Actual value is [
2.5332, 0.6542899999999999, 0.99895, 2.86712, 2.0906599999999997, 2.89319, 1.737990000000
0001, 1.38079, 2.4748900000000003, 2.61955, 1.58782, 1.46494, 2.44191, 1.57059, 2.4920400
000000003, 1.9563700000000002, 2.48676, 2.79832, 2.21978, 1.24074, 1.62215, 3.08854, 1.86
04, 1.9521, 1.8799599999999999, 1.63794, 1.9312900000000002, 2.74255, 2.8079099999999997,
1.78555]

Mean absolute error:- 0.0002604440358552192
Mean squared error:- 9.10272435110667e-08
Root mean squared error:- 0.0003017072148807626
r2 Score:- 0.9999997502714818

At random state 756 the model performs very well
At random state 756
Training score is
0.9999997262403538
Predicted value is [1.68433227 3.17759997 1.64844218 1.87878123 2.26421193 1.5883032
2.24715032 1.89859184 2.00079428 1.95245309 0.65453799 2.70216461
1.95294032 2.20151125 2.3198066 2.5943972 1.4278838 2.12504416
2.21124945 1.21363463 2.18867872 2.24179933 1.8696948 2.3087432
2.32133351 2.109981 1.92340184 2.44844579 1.86613472 0.67148122] and Actual value is [
1.68435, 3.17728, 1.6488, 1.87877, 2.26425, 1.58782, 2.24729, 1.89894, 2.00073, 1.9521, 0
.6542899999999999, 2.70201, 1.95335, 2.20173, 2.31945, 2.5945, 1.42766, 2.12466, 2.21126,
1.21305, 2.18896, 2.24173, 1.8698400000000002, 2.30919, 2.3214200000000003, 2.11032, 1.92
313, 2.44876, 1.86565, 0.67108]

Mean absolute error:- 0.0002555627525138678
Mean squared error:- 9.031023247894853e-08
Root mean squared error:- 0.00030051660932292666
r2 Score:- 0.9999996637141085

At random state 757 the model performs very well
At random state 757
Training score is
0.9999997123969419
Predicted value is [2.50955963 3.1073501 1.34720173 1.86964363 1.94925162 1.63327144
2.32132954 1.59891841 1.94266854 2.48654019 2.86701805 3.10712995
2.04403899 3.26047037 2.27400416 1.96939103 1.68425179 0.99834748
1.83348983 1.68153363 2.05119133 1.9233759 2.49203761 1.59582018
2.11357612 1.93110541 2.24622082 2.0248156 0.89931065 2.24705336] and Actual value is [

2.51011, 3.1070900000000004, 1.34759, 1.8698400000000002, 1.9493900000000002, 1.633279999
9999998, 2.3214200000000003, 1.59927, 1.9429599999999998, 2.48676, 2.86712, 3.10712, 2.04
38400000000003, 3.26001, 2.27394, 1.969609999999999, 1.68435, 0.99895, 1.83302, 1.68135,
2.05125, 1.92313, 2.4920400000000003, 1.59541, 2.1139900000000003, 1.9312900000000002, 2.
2463900000000003, 2.025, 0.89991, 2.24729]

Mean absolute error:- 0.000246970368009547

Mean squared error:- 9.002486932916184e-08

Root mean squared error:- 0.00030004144601898224

r2 Score:- 0.999997023494779

At random state 758 the model performs very well

At random state 758

Training score is

0.999997404421932

Predicted value is [2.18860552 1.83349263 2.4144808 1.73792172 1.84413251 2.23231916
3.05127546 2.201419 2.02501597 1.6815553 1.62261079 1.75327762
1.88954536 2.83595552 2.51765865 2.46511508 2.59438114 0.98163153
1.88496245 2.22003881 2.11819752 2.27412742 2.70206541 2.44690585
2.13142223 1.42783889 2.79065833 2.45364154 1.969684 1.95852914] and Actual value is [
2.18896, 1.83302, 2.4148400000000003, 1.7379000000000001, 1.84408, 2.2327, 3.05137, 2.201
73, 2.0251799999999998, 1.68135, 1.62215, 1.7536, 1.8893099999999998, 2.8360000000000003,
2.51767, 2.4653099999999997, 2.5945, 0.98195, 1.8854099999999998, 2.21978, 2.11773, 2.273
94, 2.70201, 2.4464900000000003, 2.1309, 1.42766, 2.79094, 2.4537299999999997, 1.96994000
00000002, 1.95812]

Mean absolute error:- 0.00025794655207053154

Mean squared error:- 8.847848197685225e-08

Root mean squared error:- 0.00029745332739247054

r2 Score:- 0.999995454663821

At random state 759 the model performs very well

At random state 759

Training score is

0.999997251126062

Predicted value is [1.84409266 2.00078889 2.10994002 2.26645763 2.18865445 2.11562944
2.21123892 2.24629406 1.85105279 2.89325387 2.24711579 1.41714713
3.08886587 2.09020892 1.95073937 3.05116765 1.63812419 1.87877047
1.80036569 2.20787771 2.61954326 1.9583852 2.67613679 2.12377069
1.93107071 0.98172675 2.85763631 2.63440113 2.8073969 2.51768861] and Actual value is [
1.84408, 2.00073, 2.11032, 2.26646, 2.18896, 2.1156900000000003, 2.21126, 2.2463900000000
003, 1.851, 2.89319, 2.24743, 1.41723, 3.08854, 2.090659999999997, 1.95071, 3.05137, 1.6
3794, 1.87877, 1.801009999999998, 2.20857, 2.61955, 1.95812, 2.67585, 2.12367, 1.9312900
00000002, 0.98195, 2.85737, 2.6343, 2.807909999999997, 2.51767]

Mean absolute error:- 0.00019939386116951303

Mean squared error:- 7.508079335787221e-08

Root mean squared error:- 0.000274008746863804

r2 Score:- 0.999996630562737

At random state 760 the model performs very well

At random state 760

Training score is

0.999996888455105

Predicted value is [2.83594978 0.89943646 2.46512608 3.0348184 2.26644534 2.30868598
2.2418542 2.11000196 2.0639494 2.22003231 2.79063183 1.6381102
2.51761503 2.67616695 1.95595905 1.95068112 2.41448574 1.93109974
1.73928839 1.6225953 1.75327624 3.60180095 2.24706315 2.2741046
1.42783021 3.17754879 3.05121533 2.04402856 2.20140849 0.98164906] and Actual value is [
2.8360000000000003, 0.89991, 2.465309999999997, 3.035, 2.26646, 2.30919, 2.24173, 2.1103
2, 2.06367, 2.21978, 2.79094, 1.63794, 2.51767, 2.67585, 1.9563700000000002, 1.95071, 2.4
148400000000003, 1.9312900000000002, 1.7393299999999998, 1.62215, 1.7536, 3.6021400000000
003, 2.24743, 2.27394, 1.42766, 3.17728, 3.05137, 2.0438400000000003, 2.20173, 0.98195]

Mean absolute error:- 0.00024341354400619908

Mean squared error:- 7.670148435976631e-08

Root mean squared error:- 0.0002769503283257962

r2 Score:- 0.999997836698923

At random state 761 the model performs very well
At random state 761
Training score is
0.9999997109284186
Predicted value is [1.26497443 1.73829717 1.5985914 1.86966853 2.12374223 2.48665039
1.87874976 1.87963464 2.67618627 2.85765153 1.38094022 2.51750428
2.4920267 2.74282758 3.60184177 1.59890365 2.53918058 1.85101373
2.44844495 1.73802272 3.1072382 1.68155337 2.24627535 1.80032933
1.97550746 2.26424552 3.0888503 1.88522158 1.95289681 2.11352445] and Actual value is [
1.26462, 1.73797, 1.5988799999999999, 1.8698400000000002, 2.12367, 2.48676, 1.87877, 1.87
9959999999999999, 2.67585, 2.85737, 1.38079, 2.5173799999999997, 2.4920400000000003, 2.7425
5, 3.6021400000000003, 1.59927, 2.5394200000000002, 1.851, 2.44876, 1.7379900000000001, 3
.1070900000000004, 1.68135, 2.2463900000000003, 1.801009999999998, 1.9757, 2.26425, 3.08
854, 1.8850099999999999, 1.95335, 2.1139900000000003]

Mean absolute error:- 0.00023007669863217561
Mean squared error:- 7.658183765481467e-08
Root mean squared error:- 0.0002767342365064624
r2 Score:- 0.9999997375631039

At random state 762 the model performs very well
At random state 762
Training score is
0.9999997335882601
Predicted value is [1.6332424 2.46514232 1.95069335 1.58822573 2.67623587 1.61618699
2.02500691 2.82366353 2.31980488 1.59573267 1.88525247 1.75333551
2.11554314 2.74283299 1.57038063 1.59861483 1.59896165 3.10736323
2.48658176 2.24707838 2.20150866 1.57163543 1.84419191 1.71918397
2.49201264 1.62255629 2.26423868 1.83349036 0.99837966 2.75458572] and Actual value is [
1.633279999999998, 2.465309999999997, 1.95071, 1.58782, 2.67585, 1.615829999999999, 2.
025179999999998, 2.82334, 2.31945, 1.59541, 1.885009999999999, 1.7536, 2.115690000000000
03, 2.74255, 1.57059, 1.598879999999999, 1.59927, 3.107090000000004, 2.48676, 2.24743,
2.20173, 1.5714, 1.84408, 1.719559999999998, 2.492040000000003, 1.62215, 2.26425, 1.833
02, 0.99895, 2.75414]

Mean absolute error:- 0.0002647864744855788
Mean squared error:- 8.915427022904739e-08
Root mean squared error:- 0.0002985871233476879
r2 Score:- 0.999996222663893

At random state 763 the model performs very well
At random state 763
Training score is
0.9999997369579711
Predicted value is [2.44219643 1.7931692 1.4650858 2.89321502 1.57165023 1.57032755
3.60181256 2.2079915 2.11005076 2.02484119 2.53919611 2.30871813
2.32305156 1.83342493 2.51763313 1.95296091 2.0511163 1.73833262
2.50994621 2.79882995 2.13138076 2.23234257 1.84414484 2.76610863
2.48665662 2.45362162 1.86971564 2.26645612 2.24184577 2.63446437] and Actual value is [
2.44191, 1.79293, 1.46494, 2.89319, 1.5714, 1.57059, 3.602140000000003, 2.20857, 2.11032
, 2.025, 2.539420000000002, 2.30919, 2.32323, 1.83302, 2.51767, 1.95335, 2.05125, 1.7379
7, 2.51009, 2.79832, 2.1309, 2.2327, 1.84408, 2.76579, 2.48676, 2.453729999999997, 1.869
8400000000002, 2.26646, 2.24173, 2.6343]

Mean absolute error:- 0.0002413355351323032
Mean squared error:- 8.088695563128157e-08
Root mean squared error:- 0.00028440632136308357
r2 Score:- 0.999995973182819

At random state 764 the model performs very well
At random state 764
Training score is
0.9999997464667193
Predicted value is [2.27545318 1.88497293 1.75333214 1.94272823 2.37162441 1.59581005
2.63447106 2.53922051 2.50958547 2.09978203 2.11355775 2.1181414
2.2377394 2.89322974 2.0007936 0.89932781 1.63327902 1.57029627
2.59437089 1.79313147 2.12368867 2.21122571 1.41720875 2.31969573
1.92339461 1.59894101 1.73834146 2.83593975 1.3472527 2.23228641] and Actual value is [

2.27513, 1.8854099999999998, 1.7536, 1.9429599999999998, 2.3711900000000004, 1.59541, 2.6343, 2.539420000000002, 2.51011, 2.10017, 2.1139900000000003, 2.11773, 2.23740999999999997, 2.89319, 2.00073, 0.89991, 1.6332799999999998, 1.57059, 2.5945, 1.79293, 2.12367, 2.21126, 1.41723, 2.31945, 1.92313, 1.59927, 1.73797, 2.8360000000000003, 1.34759, 2.2327]

Mean absolute error:- 0.00026524576090525645
Mean squared error:- 9.613809966145822e-08
Root mean squared error:- 0.0003100614449773758
r2 Score:- 0.999995264774174

At random state 765 the model performs very well

At random state 765

Training score is

0.999997014784997

Predicted value is [1.6948324 2.063958 1.63809768 2.83591931 2.26646123 1.71926885 2.44846162 3.60181428 2.5095822 2.7907959 2.43857699 2.47497881 0.65453999 1.83354156 1.34730464 1.68425582 2.23230882 1.58823531 1.79315023 2.02495312 0.89942141 1.85109652 2.79886476 1.62256787 1.89857829 2.24706905 2.46555528 2.12369769 3.17754277 2.3213038] and Actual value is [1.6944, 2.06367, 1.63794, 2.8360000000000003, 2.26646, 1.7195599999999998, 2.44876, 3.6021400000000003, 2.51011, 2.79094, 2.43872, 2.4748900000000003, 0.6542899999999999, 1.83302, 1.34759, 1.68435, 2.2327, 1.58782, 1.79293, 2.0251799999999998, 0.89991, 1.851, 2.79832, 1.62215, 1.89894, 2.24729, 2.4657, 2.12367, 3.17728, 2.3214200000000003]

Mean absolute error:- 0.00026218101463194957

Mean squared error:- 9.208289151146013e-08

Root mean squared error:- 0.000303451629607521

r2 Score:- 0.999997550241807

At random state 766 the model performs very well

At random state 766

Training score is

0.999997431990286

Predicted value is [1.88958437 2.51780432 0.65449028 1.87881715 2.23233618 1.9694027 1.95254371 2.27555669 2.20783495 2.63440879 1.96971293 3.05113621 1.63337487 1.97543754 2.0249231 1.86605186 2.30876774 2.11558083 1.87964432 2.48645527 2.41449372 0.99841368 1.95288134 3.19103875 2.50958621 2.12372941 2.04400076 1.46166321 2.76612596 2.37154494] and Actual value is [1.8893099999999998, 2.51767, 0.6542899999999999, 1.87877, 2.2327, 1.9696099999999999, 1.9521, 2.27513, 2.20857, 2.6343, 1.9699400000000002, 3.05137, 1.6332799999999998, 1.9757, 2.0251799999999998, 1.86565, 2.30919, 2.1156900000000003, 1.8799599999999999, 2.48676, 2.4148400000000003, 0.99895, 1.95335, 3.1913099999999996, 2.51011, 2.12367, 2.0438400000000003, 1.46181, 2.76579, 2.3711900000000004]

Mean absolute error:- 0.00029248208158471066

Mean squared error:- 1.1004388358802107e-07

Root mean squared error:- 0.00033172862943680497

r2 Score:- 0.99999776040641

At random state 767 the model performs very well

At random state 767

Training score is

0.999997060730129

Predicted value is [1.9754572 1.46506528 1.88500713 1.73927288 1.95251208 2.53914486 1.8796372 1.46180174 2.414461 1.73800013 1.78524129 2.50959043 1.26496018 1.75870205 2.05109734 2.32373316 2.11351286 2.63441229 2.11554053 1.63327393 1.94273923 1.76144391 1.99179513 3.19103235 0.67143141 1.87874979 2.27404721 2.09978308 0.65451723 1.85996436] and Actual value is [1.9757, 1.46494, 1.8854099999999998, 1.7393299999999998, 1.9521, 2.5394200000000002, 1.8799599999999999, 1.46181, 2.4148400000000003, 1.7379900000000001, 1.78555, 2.51011, 1.26462, 1.75873, 2.05125, 2.32407, 2.1139900000000003, 2.6343, 2.1156900000000003, 1.6332799999999998, 1.9429599999999998, 1.76145, 1.9917200000000002, 3.1913099999999996, 0.67108, 1.87877, 2.27394, 2.10017, 0.6542899999999999, 1.8604]

Mean absolute error:- 0.00022582098254548822

Mean squared error:- 7.576485653386526e-08

Root mean squared error:- 0.00027525416715077223

r2 Score:- 0.999997071240584

At random state 768 the model performs very well
At random state 768
Training score is
0.9999997473765904
Predicted value is [1.89857749 1.99181225 2.02482833 1.94272339 2.32305409 1.79317165
1.57162828 1.88531252 1.97551493 1.26497715 1.83345191 2.61959278
2.13138575 1.85110243 1.38098933 2.59438653 1.417217 1.59578382
2.7661158 1.86607687 2.26429895 1.7587075 1.46510864 2.45191249
1.80037431 2.08475834 1.94931371 2.37162606 1.73806711 2.67617433] and Actual value is [
1.89894, 1.9917200000000002, 2.025, 1.9429599999999998, 2.32323, 1.79293, 1.5714, 1.88500
99999999999, 1.9757, 1.26462, 1.83302, 2.61955, 2.1309, 1.851, 1.38079, 2.5945, 1.41723,
1.59541, 2.76579, 1.86565, 2.26425, 1.75873, 1.46494, 2.4517599999999997, 1.801099999999999
998, 2.08528, 1.9493900000000002, 2.3711900000000004, 1.7379900000000001, 2.67585]
Mean absolute error:- 0.0002444162327888873
Mean squared error:- 8.579274145859732e-08
Root mean squared error:- 0.00029290397992959625
r2 Score:- 0.9999994292616656

At random state 769 the model performs very well
At random state 769
Training score is
0.9999997226942663
Predicted value is [2.04403388 2.27411726 2.89316449 2.45187219 1.44420937 1.95073087
2.0249447 2.30872334 3.05112241 2.80738337 1.59583726 2.50981521
2.18861706 2.74276207 2.47498837 2.32306649 1.86424207 0.65453621
2.20787363 2.41453752 2.02480939 2.09019659 1.92341777 1.76136394
2.82360457 2.27550885 0.9817857 2.23772801 2.26647405 1.73796543] and Actual value is [
2.0438400000000003, 2.27394, 2.89319, 2.451759999999997, 1.44395, 1.95071, 2.02517999999
9998, 2.30919, 3.05137, 2.807909999999997, 1.59541, 2.51009, 2.18896, 2.74255, 2.474890
0000000003, 2.32323, 1.86399, 0.6542899999999999, 2.20857, 2.4148400000000003, 2.025, 2.0
906599999999997, 1.92313, 1.76145, 2.82334, 2.27513, 0.98195, 2.2374099999999997, 2.26646
, 1.7379900000000001]
Mean absolute error:- 0.000249117661481905
Mean squared error:- 8.677071021635877e-08
Root mean squared error:- 0.00029456868505725245
r2 Score:- 0.9999996769364061

At random state 770 the model performs very well
At random state 770
Training score is
0.9999997013833463
Predicted value is [2.46513796 2.09024572 2.74278199 1.4617407 1.73929045 2.43857899
1.75876632 2.13139833 1.73830895 2.32132015 2.5944092 0.65447554
2.27549762 0.98174514 1.59857656 2.41450903 1.38097493 2.61954598
1.99183624 1.92342566 1.68154897 2.4422279 3.10714777 1.88956323
2.75457729 1.85116028 1.94277641 2.45369846 1.95850442 2.50988905] and Actual value is [
2.465309999999997, 2.090659999999997, 2.74255, 1.46181, 1.7393299999999998, 2.43872, 1.
75873, 2.1309, 1.73797, 2.3214200000000003, 2.5945, 0.6542899999999999, 2.27513, 0.98195,
1.598879999999999, 2.4148400000000003, 1.38079, 2.61955, 1.991720000000002, 1.92313, 1.
68135, 2.44191, 3.10712, 1.8893099999999998, 2.75414, 1.851, 1.942959999999998, 2.453729
9999999997, 1.95812, 2.51009]
Mean absolute error:- 0.0002107213260728269
Mean squared error:- 6.192229980592821e-08
Root mean squared error:- 0.00024884191730077996
r2 Score:- 0.9999997796662998

At random state 771 the model performs very well
At random state 771
Training score is
0.9999996939202245
Predicted value is [2.89319436 2.50988749 1.69481581 3.26044751 1.59572264 2.74282704
1.78524826 2.20790736 1.79310255 1.46504825 2.24183672 1.6225463
2.09976619 1.75870254 2.26424043 1.34732597 3.19111104 2.41452406
1.24114866 1.57036606 1.59893834 2.53342633 3.10710396 0.99843852
1.86427702 0.98182394 2.5177078 2.67777794 1.21360148 2.45366579] and Actual value is [

2.89319, 2.51009, 1.6944, 3.26001, 1.59541, 2.74255, 1.78555, 2.20857, 1.79293, 1.46494, 2.24173, 1.62215, 2.10017, 1.75873, 2.26425, 1.34759, 3.1913099999999996, 2.41484000000000003, 1.24074, 1.57059, 1.59927, 2.5332, 3.10712, 0.99895, 1.86399, 0.98195, 2.51767, 2.67782, 1.21305, 2.453729999999997]

Mean absolute error:- 0.00024815229137100286
Mean squared error:- 9.142973639451962e-08
Root mean squared error:- 0.00030237350478261093
r2 Score:- 0.9999997747975126

At random state 772 the model performs very well

At random state 772

Training score is

0.999997441668773

Predicted value is [1.73829661 1.8796567 1.79312999 2.24628618 2.51748519 2.13134264 0.99843199 2.18866848 2.0440055 1.59893614 1.94933787 2.26421146 3.17766197 1.68159879 2.82371112 2.2664701 1.95248979 1.73928941 2.41451047 2.08474617 2.75457698 1.78525855 2.79886998 2.31980658 1.46176229 1.96967882 1.69482944 1.26496794 2.84831807 2.63452142] and Actual value is [1.73797, 1.8799599999999999, 1.79293, 2.2463900000000003, 2.5173799999999997, 2.1309, 0.99895, 2.18896, 2.0438400000000003, 1.59927, 1.9493900000000002, 2.26425, 3.17728, 1.68135, 2.82334, 2.26646, 1.9521, 1.739329999999998, 2.4148400000000003, 2.08528, 2.75414, 1.78555, 2.79832, 2.31945, 1.46181, 1.9699400000000002, 1.6944, 1.26462, 2.84848, 2.6343]

Mean absolute error:- 0.00027638077892886044
Mean squared error:- 1.000770768309049e-07
Root mean squared error:- 0.00031634961171290364
r2 Score:- 0.999995902404007

At random state 773 the model performs very well

At random state 773

Training score is

0.999997587674463

Predicted value is [1.4278181 2.12369809 1.63804832 2.26641935 2.45182196 1.88494779 2.02489855 1.68425237 1.85107666 2.50954848 2.2377072 1.96938508 2.85760822 2.5174813 2.20795344 1.76136225 2.32377973 1.83341237 2.44849273 1.8796463 2.32130537 1.64829432 1.89853855 1.97540655 2.76611139 2.21120439 1.78520643 2.30872362 1.99179134 0.89934017] and Actual value is [1.42766, 2.12367, 1.63794, 2.26646, 2.451759999999997, 1.885409999999998, 2.025179999999998, 1.68435, 1.851, 2.51011, 2.237409999999997, 1.969609999999999, 2.85737, 2.517379999999997, 2.20857, 1.76145, 2.32407, 1.83302, 2.44876, 1.879959999999999, 2.3214200000000003, 1.6488, 1.89894, 1.9757, 2.76579, 2.21126, 1.78555, 2.30919, 1.9917200000000002, 0.89991]

Mean absolute error:- 0.0002616495555932574
Mean squared error:- 9.854198300050371e-08
Root mean squared error:- 0.0003139139738853683
r2 Score:- 0.999993811454023

At random state 774 the model performs very well

At random state 774

Training score is

0.99999718189642

Predicted value is [1.59897034 1.85107339 2.23234645 2.06395993 2.02500297 1.5957612 2.32136545 2.24189601 3.0888602 2.5175266 1.87875877 1.88965439 2.37158668 2.74283696 2.70220914 1.94932041 2.12377966 1.96972405 1.68160046 1.7852556 1.9755093 2.51769943 2.85765807 1.86610954 1.86426357 0.65457625 2.76617106 1.2136582 1.57163979 1.75875115] and Actual value is [1.59927, 1.851, 2.2327, 2.06367, 2.02517999999998, 1.59541, 2.321420000000003, 2.24173, 3.08854, 2.517379999999997, 1.87877, 1.889309999999998, 2.371190000000004, 2.74255, 2.70201, 1.9493900000000002, 2.12367, 1.9699400000000002, 1.68135, 1.78555, 1.9757, 2.51767, 2.85737, 1.86565, 1.86399, 0.654289999999999, 2.76579, 1.21305, 1.5714, 1.75873]

Mean absolute error:- 0.00023961106927145037
Mean squared error:- 7.619008437353463e-08
Root mean squared error:- 0.0002760255139901647
r2 Score:- 0.999996992606804

At random state 775 the model performs very well
At random state 775
Training score is
0.9999997248943503
Predicted value is [2.44848848 1.80041093 3.10733987 2.24629539 2.2754887 2.44219657
1.87661563 2.43245457 2.30874825 2.32309504 1.59573443 1.46508136
2.3213245 1.85110787 0.65450838 2.63443576 2.11560458 2.50991614
2.43859488 2.44682728 1.61618544 2.79876391 1.87878935 3.0888565
2.26649609 2.48660926 2.45366262 1.89856504 2.79068838 1.69484123] and Actual value is [
2.44876, 1.8010099999999998, 3.1070900000000004, 2.2463900000000003, 2.27513, 2.44191, 1.
8763400000000001, 2.43209, 2.30919, 2.32323, 1.59541, 1.46494, 2.3214200000000003, 1.851,
0.6542899999999999, 2.6343, 2.1156900000000003, 2.51009, 2.43872, 2.4464900000000003, 1.6
1582999999999999, 2.79832, 1.87877, 3.08854, 2.26646, 2.48676, 2.4537299999999997, 1.89894
, 2.79094, 1.6944]
Mean absolute error:- 0.00024264821128140436
Mean squared error:- 7.890545125479693e-08
Root mean squared error:- 0.00028090114142665377
r2 Score:- 0.9999996874305993

At random state 776 the model performs very well

At random state 776
Training score is
0.9999997117022708
Predicted value is [1.96947993 2.2322849 1.26496347 1.7614552 2.47503996 1.57154711
0.89935869 1.88529252 2.45190179 2.18862858 0.65451928 1.38089821
2.53919185 2.63445235 2.26425745 1.80032089 2.20787077 2.00078686
1.86607012 1.73923883 1.88956221 1.89854433 3.10705989 0.98180355
2.83593054 2.24623976 1.79309682 1.85101947 2.02477628 2.12502938] and Actual value is [
1.9696099999999999, 2.2327, 1.26462, 1.76145, 2.4748900000000003, 1.5714, 0.89991, 1.8850
099999999999, 2.4517599999999997, 2.18896, 0.6542899999999999, 1.38079, 2.5394200000000000
2, 2.6343, 2.26425, 1.801009999999998, 2.20857, 2.00073, 1.86565, 1.7393299999999998, 1.
889309999999998, 1.89894, 3.10712, 0.98195, 2.8360000000000003, 2.2463900000000003, 1.79
293, 1.851, 2.025, 2.12466]
Mean absolute error:- 0.00023444667329130346
Mean squared error:- 8.81271263419982e-08
Root mean squared error:- 0.0002968621335603418
r2 Score:- 0.9999996963359712

At random state 777 the model performs very well

At random state 777
Training score is
0.999999718870225
Predicted value is [3.10724016 2.24624924 1.4650594 2.67616819 2.53342046 1.63327214
1.75864389 2.4144969 1.86607155 0.67145736 2.63445086 1.69482631
2.53915598 2.11807906 2.47498618 1.80031053 2.43850105 1.94930986
2.67772609 2.0247986 2.70218898 1.94270645 1.78527254 1.87876116
2.1155789 2.23232527 2.09973175 3.60179683 2.30874169 1.59891078] and Actual value is [
3.107090000000004, 2.2463900000000003, 1.46494, 2.67585, 2.5332, 1.6332799999999998, 1.7
5873, 2.4148400000000003, 1.86565, 0.67108, 2.6343, 1.6944, 2.5394200000000002, 2.11773,
2.4748900000000003, 1.801009999999998, 2.43872, 1.9493900000000002, 2.67782, 2.025, 2.70
201, 1.942959999999998, 1.78555, 1.87877, 2.1156900000000003, 2.2327, 2.10017, 3.6021400
00000003, 2.30919, 1.59927]
Mean absolute error:- 0.00025196273028110783
Mean squared error:- 8.720253615353781e-08
Root mean squared error:- 0.0002953007554232427
r2 Score:- 0.999999703056028

At random state 778 the model performs very well

At random state 778
Training score is
0.999999717470512
Predicted value is [2.12510176 2.53341276 1.3808973 2.67618764 2.51751153 1.89861089
0.65449749 1.73833998 1.96968903 3.08885184 2.31973298 2.26646484
1.64836427 1.7614491 2.46557774 3.10711208 2.32377627 1.21357147
2.5098909 2.06390874 2.75460978 2.20795471 0.981739 1.95593972
1.92341035 2.24630479 1.9584258 1.99177505 2.51771333 1.34728725] and Actual value is [

2.12466, 2.5332, 1.38079, 2.67585, 2.5173799999999997, 1.89894, 0.6542899999999999, 1.73797, 1.9699400000000002, 3.08854, 2.31945, 2.26646, 1.6488, 1.76145, 2.4657, 3.10712, 2.32407, 1.21305, 2.51009, 2.06367, 2.75414, 2.20857, 0.98195, 1.9563700000000002, 1.92313, 2.2463900000000003, 1.95812, 1.9917200000000002, 2.51767, 1.34759]

Mean absolute error:- 0.0002535628947478089

Mean squared error:- 8.92134538445077e-08

Root mean squared error:- 0.00029868621301377084

r2 Score:- 0.99999971906436

At random state 779 the model performs very well

At random state 779

Training score is

0.9999997353680415

Predicted value is [2.79880129 1.64840033 2.09027612 1.95599132 1.41720359 1.96943181 2.51770933 1.57164347 2.51750641 2.12506197 1.78527093 2.45188441 2.44222 1.57035506 2.31981378 1.58827246 1.88956638 1.86430614 2.00081051 1.68156962 2.85765832 0.67140267 1.87880629 2.7021659 1.9311194 2.2754857 2.67779786 2.24184372 2.43246549 2.09979813] and Actual value is [2.79832, 1.6488, 2.0906599999999997, 1.9563700000000002, 1.41723, 1.9696099999999999, 2.51767, 1.5714, 2.5173799999999997, 2.12466, 1.78555, 2.4517599999999997, 2.44191, 1.57059, 2.31945, 1.58782, 1.8893099999999998, 1.86399, 2.00073, 1.68135, 2.85737, 0.67108, 1.87877, 2.70201, 1.9312900000000002, 2.27513, 2.67782, 2.24173, 2.43209, 2.10017]

Mean absolute error:- 0.0002503099954681528

Mean squared error:- 8.054225547865993e-08

Root mean squared error:- 0.00028379967490936266

r2 Score:- 0.9999996313424538

At random state 780 the model performs very well

At random state 780

Training score is

0.9999997354199452

Predicted value is [2.85763937 2.24628644 1.86606112 2.51773073 2.02495148 2.79073266 1.34728664 3.08885682 1.6483341 2.08478006 2.45185304 2.75459088 1.84410653 1.78521089 2.32131657 2.67778976 1.86002101 1.93110878 2.48661304 1.73925242 1.95250385 2.44684369 1.92341214 1.95595303 2.46557791 2.61954584 1.4441497 2.82365927 1.63328961 1.87965912] and Actual value is [2.85737, 2.2463900000000003, 1.86565, 2.51767, 2.025179999999998, 2.79094, 1.34759, 3.08854, 1.6488, 2.08528, 2.4517599999999997, 2.75414, 1.84408, 1.78555, 2.3214200000000003, 2.67782, 1.8604, 1.9312900000000002, 2.48676, 1.7393299999999998, 1.9521, 2.4464900000000003, 1.92313, 1.9563700000000002, 2.4657, 2.61955, 1.44395, 2.82334, 1.6332799999999998, 1.879959999999999]

Mean absolute error:- 0.00023689992758263074

Mean squared error:- 7.809886196895762e-08

Root mean squared error:- 0.0002794617361446064

r2 Score:- 0.9999996179755088

At random state 781 the model performs very well

At random state 781

Training score is

0.9999996771655555

Predicted value is [2.4421838 2.46557423 3.05124697 1.96938216 1.61619687 1.73798169 2.83596662 1.84415379 2.0638937 1.78525009 2.59439269 2.86703221 1.99175927 1.95292442 2.7021638 0.98175456 2.32382476 1.75870312 1.88498669 1.87877739 0.67138615 1.93110343 1.46166762 2.02496457 2.89317673 0.99839043 1.41711785 2.24184846 2.02483998 2.11555985] and Actual value is [2.44191, 2.4657, 3.05137, 1.969609999999999, 1.615829999999999, 1.7379900000000001, 2.8360000000000003, 1.84408, 2.06367, 1.78555, 2.5945, 2.86712, 1.9917200000000002, 1.95335, 2.70201, 0.98195, 2.32407, 1.75873, 1.885409999999998, 1.87877, 0.67108, 1.9312900000000002, 1.46181, 2.0251799999999998, 2.89319, 0.99895, 1.41723, 2.24173, 2.025, 2.1156900000000003]

Mean absolute error:- 0.0001804191746384613

Mean squared error:- 5.068538505514844e-08

Root mean squared error:- 0.00022513414902041947

r2 Score:- 0.9999998415987542

At random state 782 the model performs very well
At random state 782
Training score is
0.9999997457022197
Predicted value is [1.73829978 1.69477138 1.95079538 3.05129381 2.2462604 1.92338381
1.89852377 2.27545957 2.89329223 2.32306381 2.82369762 2.04396201
2.79881499 2.05111581 2.44849624 2.49207291 1.61622087 0.99843967
1.75339738 1.63816302 1.80028215 1.95286973 3.03485091 2.44218095
1.59889925 2.3716084 1.5882373 2.21996719 2.02490613 1.46184602] and Actual value is [
1.73797, 1.6944, 1.95071, 3.05137, 2.2463900000000003, 1.92313, 1.89894, 2.27513, 2.89319
, 2.32323, 2.82334, 2.0438400000000003, 2.79832, 2.05125, 2.44876, 2.4920400000000003, 1.
6158299999999999, 0.99895, 1.7536, 1.63794, 1.8010099999999998, 1.95335, 3.035, 2.44191,
1.59927, 2.3711900000000004, 1.58782, 2.21978, 2.0251799999999998, 1.46181]

Mean absolute error:- 0.00027747814401130424
Mean squared error:- 1.0318098956292374e-07
Root mean squared error:- 0.000321217978268533
r2 Score:- 0.9999995708410477

At random state 783 the model performs very well
At random state 783
Training score is
0.9999997213966813
Predicted value is [1.99167776 2.67779765 1.24123988 2.51753593 0.6545788 1.73836393
2.75450892 1.71926966 0.89949412 3.03484013 2.23773916 2.61956487
2.08475654 2.20792826 1.68437956 2.44839284 2.30867102 0.98176946
2.44684317 2.06389128 2.12381432 1.46175507 1.93114742 2.80730991
2.43854329 1.21366518 1.61628306 2.099781 2.22003449 3.10711837] and Actual value is [
1.991720000000002, 2.67782, 1.24074, 2.5173799999999997, 0.6542899999999999, 1.73797, 2.
75414, 1.719559999999998, 0.89991, 3.035, 2.2374099999999997, 2.61955, 2.08528, 2.20857,
1.68435, 2.44876, 2.30919, 0.98195, 2.4464900000000003, 2.06367, 2.12367, 1.46181, 1.9312
900000000002, 2.807909999999997, 2.43872, 1.21305, 1.6158299999999999, 2.10017, 2.21978,
3.1070900000000004]

Mean absolute error:- 0.00028922671867815574
Mean squared error:- 1.1919392799147106e-07
Root mean squared error:- 0.00034524473637040587
r2 Score:- 0.999996859453746

At random state 784 the model performs very well
At random state 784
Training score is
0.999999733947729
Predicted value is [1.63319056 1.92337769 1.73931251 2.80731526 2.11561552 1.61625725
1.75876042 1.7533393 3.03485984 1.58832842 2.79065102 2.83601415
2.23239 3.10714532 2.85765644 2.13142815 1.9697139 2.47492148
2.24706825 1.71931442 1.76139528 2.44693389 1.97547266 2.46513083
1.95298995 1.5717258 1.94272764 1.62261907 3.08887143 2.31978664] and Actual value is [
1.633279999999998, 1.92313, 1.739329999999998, 2.807909999999997, 2.1156900000000003,
1.615829999999999, 1.75873, 1.7536, 3.035, 1.58782, 2.79094, 2.836000000000003, 2.2327,
3.10712, 2.85737, 2.1309, 1.969940000000002, 2.4748900000000003, 2.24743, 1.719559999999
998, 1.76145, 2.446490000000003, 1.9757, 2.465309999999997, 1.95335, 1.5714, 1.9429599
99999998, 1.62215, 3.08854, 2.31945]

Mean absolute error:- 0.000255639917410555
Mean squared error:- 9.199979225732606e-08
Root mean squared error:- 0.00030331467530821197
r2 Score:- 0.999996163848212

At random state 785 the model performs very well
At random state 785
Training score is
0.999999711754445
Predicted value is [0.67142919 2.12503094 2.74279961 1.6333044 2.26417542 2.26642334
2.09974859 1.87656692 2.59438627 2.21998841 1.38097025 2.44848306
3.03483691 1.68428958 2.50957107 2.02482171 2.84825381 1.58826193
0.89942947 2.51745147 1.73799596 2.46553505 1.95290263 2.11556051
1.86967252 2.24180973 1.79314957 1.96938087 2.24707398 2.61949485] and Actual value is [

0.67108, 2.12466, 2.74255, 1.6332799999999998, 2.26425, 2.26646, 2.10017, 1.8763400000000000
001, 2.5945, 2.21978, 1.38079, 2.44876, 3.035, 1.68435, 2.51011, 2.025, 2.84848, 1.58782,
0.89991, 2.5173799999999997, 1.7379900000000001, 2.4657, 1.95335, 2.1156900000000003, 1.8
698400000000002, 2.24173, 1.79293, 1.9696099999999999, 2.24743, 2.61955]

Mean absolute error:- 0.000218291307749785

Mean squared error:- 6.893315596333015e-08

Root mean squared error:- 0.00026255124445206913

r2 Score:- 0.999997442391415

At random state 786 the model performs very well

At random state 786

Training score is

0.999997176837561

Predicted value is [1.85109281 2.32375863 1.34737111 1.89853534 3.10708823 2.31977293
2.41450295 2.74274644 1.80040592 2.00079379 2.1313853 2.18864465
2.32306492 1.46181528 2.11815007 2.46559965 0.67141703 0.65449261
3.08881749 1.95073201 1.88499951 2.80737091 2.26646646 2.09023699
1.62257299 1.24115398 1.64839153 2.83593401 2.51764533 1.87966231] and Actual value is [
1.851, 2.32407, 1.34759, 1.89894, 3.10712, 2.31945, 2.4148400000000003, 2.74255, 1.801009
9999999998, 2.00073, 2.1309, 2.18896, 2.32323, 1.46181, 2.11773, 2.4657, 0.67108, 0.65428
9999999999, 3.08854, 1.95071, 1.8854099999999998, 2.8079099999999997, 2.26646, 2.0906599
999999997, 1.62215, 1.24074, 1.6488, 2.8360000000000003, 2.51767, 1.8799599999999999]

Mean absolute error:- 0.0002642393264906081

Mean squared error:- 9.911383682907276e-08

Root mean squared error:- 0.00031482350107492417

r2 Score:- 0.999997187849564

At random state 787 the model performs very well

At random state 787

Training score is

0.999997391233107

Predicted value is [3.19115034 2.24709968 1.64842037 1.62260089 2.43854148 1.57036839
1.73930454 1.88959186 2.26418789 1.24122304 1.80044875 2.02486802
3.17762733 2.13138739 2.22004061 1.58830471 1.42785523 2.10993196
2.8360023 2.44841401 2.61951586 1.87968445 3.0348571 1.86968616
2.53342848 1.63322955 1.61627049 2.4324508 1.95595108 2.67617723] and Actual value is [
3.191309999999996, 2.24743, 1.6488, 1.62215, 2.43872, 1.57059, 1.739329999999998, 1.889
3099999999998, 2.26425, 1.24074, 1.801009999999998, 2.025, 3.17728, 2.1309, 2.21978, 1.5
8782, 1.42766, 2.11032, 2.836000000000003, 2.44876, 2.61955, 1.879959999999999, 3.035,
1.869840000000002, 2.5332, 1.633279999999998, 1.615829999999999, 2.43209, 1.9563700000
000002, 2.67585]

Mean absolute error:- 0.00027369009808452617

Mean squared error:- 9.88286518887381e-08

Root mean squared error:- 0.0003143702465067871

r2 Score:- 0.999996271045518

At random state 788 the model performs very well

At random state 788

Training score is

0.999997090042059

Predicted value is [3.0889503 1.92337582 2.85769991 2.26653744 3.10719102 0.99838151
2.32313307 2.51775547 2.37162157 1.8643502 2.86705449 0.89934039
2.24714638 2.53349221 2.48659078 1.76147652 2.44217894 1.86609767
3.05125199 1.94929064 2.20790383 1.88526053 2.79875373 1.62253664
1.73927248 3.17772441 1.69483913 2.26429508 2.89328841 2.63447359] and Actual value is [
3.08854, 1.92313, 2.85737, 2.26646, 3.10712, 0.99895, 2.32323, 2.51767, 2.371190000000000
4, 1.86399, 2.86712, 0.89991, 2.24729, 2.5332, 2.48676, 1.76145, 2.44191, 1.86565, 3.0513
7, 1.9493900000000002, 2.20857, 1.8850099999999999, 2.79832, 1.62215, 1.739329999999998,
3.17728, 1.6944, 2.26425, 2.89319, 2.6343]

Mean absolute error:- 0.000262434782588139

Mean squared error:- 1.0149452344833388e-07

Root mean squared error:- 0.0003185820513593537

r2 Score:- 0.999996958977595

At random state 789 the model performs very well
At random state 789
Training score is
0.9999997180841022

Predicted value is [2.41447056 2.32306629 1.73931195 0.98181003 1.75876513 2.45179325
1.46510312 1.73799161 2.24705362 1.64837717 2.32129317 1.96937216
2.82362275 1.69482353 1.92342493 2.53919157 2.12507183 1.21361576
0.67145048 2.50956357 2.67613784 1.42788548 2.67776005 1.24121629
2.02487382 2.09029481 2.20149341 1.63330804 2.45366451 2.10999321] and Actual value is [
2.4148400000000003, 2.32323, 1.7393299999999998, 0.98195, 1.75873, 2.451759999999997, 1.
46494, 1.7379900000000001, 2.24743, 1.6488, 2.3214200000000003, 1.969609999999999, 2.823
34, 1.6944, 1.92313, 2.5394200000000002, 2.12466, 1.21305, 0.67108, 2.51011, 2.67585, 1.4
2766, 2.67782, 1.24074, 2.025, 2.090659999999997, 2.20173, 1.633279999999998, 2.4537299
99999997, 2.11032]

Mean absolute error:- 0.0002470052097381714

Mean squared error:- 8.701826938299879e-08

Root mean squared error:- 0.000294988591953992

r2 Score:- 0.9999996820785501

At random state 790 the model performs very well

At random state 790

Training score is

0.9999997305065295

Predicted value is [1.44418831 1.73803166 1.73827579 0.89938625 3.0888936 2.48663913
2.27405896 2.08471754 1.79314647 2.85766198 2.63446494 1.24113651
2.26651865 3.19109439 1.86438536 2.11356367 2.74284306 2.00073052
1.87878554 2.67776554 1.94273409 1.94932138 1.80032634 2.06388687
1.42790891 2.31992707 1.71926939 2.11811679 1.57162782 2.53917577] and Actual value is [
1.44395, 1.7379900000000001, 1.73797, 0.89991, 3.08854, 2.48676, 2.27394, 2.08528, 1.7929
3, 2.85737, 2.6343, 1.24074, 2.26646, 3.191309999999996, 1.86399, 2.1139900000000003, 2.
74255, 2.00073, 1.87877, 2.67782, 1.942959999999998, 1.9493900000000002, 1.8010099999999
998, 2.06367, 1.42766, 2.31945, 1.719559999999998, 2.11773, 1.5714, 2.5394200000000002]

Mean absolute error:- 0.0002621774357684995

Mean squared error:- 9.651498665452714e-08

Root mean squared error:- 0.00031066861227766016

r2 Score:- 0.9999996514940791

At random state 791 the model performs very well

At random state 791

Training score is

0.9999997364496188

Predicted value is [3.26044765 2.24185592 3.19113029 2.45364976 1.41713244 2.24635162
2.12380579 2.3715458 2.32380836 1.88526511 1.57172259 2.75458262
1.88499665 2.0249281 2.80736248 1.96941742 2.83598797 2.43858973
2.12509046 2.24708009 2.84825777 1.38098901 1.86609988 1.95849125
2.41451577 2.22007699 1.92339215 1.94273254 2.06399131 1.24123785] and Actual value is [
3.26001, 2.24173, 3.191309999999996, 2.453729999999997, 1.41723, 2.2463900000000003, 2.
12367, 2.371190000000004, 2.32407, 1.885009999999999, 1.5714, 2.75414, 1.88540999999999
98, 2.025, 2.807909999999997, 1.969609999999999, 2.8360000000000003, 2.43872, 2.12466,
2.24743, 2.84848, 1.38079, 1.86565, 1.95812, 2.414840000000003, 2.21978, 1.92313, 1.9429
59999999998, 2.06367, 1.24074]

Mean absolute error:- 0.00026844656617703113

Mean squared error:- 9.225031368615624e-08

Root mean squared error:- 0.00030372736736447744

r2 Score:- 0.9999996074920928

At random state 792 the model performs very well

At random state 792

Training score is

0.9999997417116586

Predicted value is [1.8335135 2.41448866 2.13140811 1.34731448 1.59898477 1.93111807
1.96939532 3.08881843 2.04408874 2.02498308 1.73834045 1.88495796
1.73929324 2.2112198 2.20145406 2.75454313 3.03488968 2.44224545
2.5333534 2.09985196 1.95852858 3.10729788 2.24630299 2.45362756
2.26422665 2.30870386 1.79317296 1.63320521 1.9754448 1.24117976] and Actual value is [
1.83302, 2.4148400000000003, 2.1309, 1.34759, 1.59927, 1.931290000000002, 1.969609999999
998]

9999, 3.08854, 2.0438400000000003, 2.0251799999999998, 1.73797, 1.8854099999999998, 1.739
32999999999998, 2.21126, 2.20173, 2.75414, 3.035, 2.44191, 2.5332, 2.10017, 1.95812, 3.107
0900000000004, 2.2463900000000003, 2.4537299999999997, 2.26425, 2.30919, 1.79293, 1.63327
99999999998, 1.9757, 1.24074]

Mean absolute error:- 0.0002616087690074487

Mean squared error:- 8.856888286729637e-08

Root mean squared error:- 0.0002976052467066002

r2 Score:- 0.999995741944155

At random state 793 the model performs very well

At random state 793

Training score is

0.999997395272577

Predicted value is [1.75327927 1.64831127 2.32131031 2.2471157 2.12376515 1.75875126
2.51770731 2.43251016 1.69477087 1.95305752 2.11000316 1.88952837
0.98160558 2.79065395 2.89326056 3.26051065 1.68430028 2.30871965
2.47495771 1.95070245 1.96941608 2.67779326 1.73831379 1.5990239
2.12509262 2.4422395 2.76617819 2.11817573 1.88496473 1.76132899] and Actual value is [
1.7536, 1.6488, 2.3214200000000003, 2.24729, 2.12367, 1.75873, 2.51767, 2.43209, 1.6944,
1.95335, 2.11032, 1.8893099999999998, 0.98195, 2.79094, 2.89319, 3.26001, 1.68435, 2.3091
9, 2.4748900000000003, 1.95071, 1.9696099999999999, 2.67782, 1.73797, 1.59927, 2.12466, 2
.44191, 2.76579, 2.11773, 1.8854099999999998, 1.76145]

Mean absolute error:- 0.0002545266440984073

Mean squared error:- 9.007522426000358e-08

Root mean squared error:- 0.0003001253475799796

r2 Score:- 0.999995866151629

At random state 794 the model performs very well

At random state 794

Training score is

0.999997214057792

Predicted value is [2.59441064 2.51751851 0.89933571 2.75457496 2.53921133 1.95074228
1.88958984 2.85764267 1.78523581 1.99181982 2.11812822 2.23231093
2.79884697 2.48667907 0.65445737 1.6332788 2.63449748 2.24627476
1.71926178 1.76146571 1.80038145 2.76619592 1.84411935 1.86604239
2.04399566 2.2471187 1.92339376 1.73803475 3.10738187 2.44849843] and Actual value is [
2.5945, 2.5173799999999997, 0.89991, 2.75414, 2.539420000000002, 1.95071, 1.889309999999
9998, 2.85737, 1.78555, 1.9917200000000002, 2.11773, 2.2327, 2.79832, 2.48676, 0.65428999
99999999, 1.6332799999999998, 2.6343, 2.2463900000000003, 1.7195599999999998, 1.76145, 1.
801009999999998, 2.76579, 1.84408, 1.86565, 2.0438400000000003, 2.24729, 1.92313, 1.7379
900000000001, 3.1070900000000004, 2.44876]

Mean absolute error:- 0.00024300434689273527

Mean squared error:- 8.699635233468418e-08

Root mean squared error:- 0.0002949514406384281

r2 Score:- 0.99999700433829

At random state 795 the model performs very well

At random state 795

Training score is

0.999996966522702

Predicted value is [1.88529656 0.67143622 1.34737221 2.80735934 1.42789423 1.97550025
0.99847163 1.57035385 1.86425552 2.12502017 2.83593244 2.44222091
2.8482158 3.03482467 2.46514642 1.84416284 1.95851529 1.85996526
1.96942803 1.85114298 2.45188041 1.79315537 0.65455969 2.11556499
2.30866977 2.04407983 2.45358726 1.78526887 1.62258985 1.68432216] and Actual value is [
1.885009999999999, 0.67108, 1.34759, 2.807909999999997, 1.42766, 1.9757, 0.99895, 1.570
59, 1.86399, 2.12466, 2.836000000000003, 2.44191, 2.84848, 3.035, 2.4653099999999997, 1.
84408, 1.95812, 1.8604, 1.9696099999999999, 1.851, 2.4517599999999997, 1.79293, 0.6542899
99999999, 2.1156900000000003, 2.30919, 2.0438400000000003, 2.4537299999999997, 1.78555,
1.62215, 1.68435]

Mean absolute error:- 0.00025989626611982265

Mean squared error:- 8.496349283148586e-08

Root mean squared error:- 0.0002914849787407335

r2 Score:- 0.999997446820068

At random state 796 the model performs very well
At random state 796
Training score is
0.9999997226173635
Predicted value is [2.48653436 1.95296978 2.44226121 1.58830651 1.44426904 2.53921842
2.37158204 3.03484197 1.96975075 2.46558509 0.89943938 2.32132834
2.0008265 3.19108002 2.11562477 2.63440909 2.83596821 3.05124046
2.27415428 2.24710512 1.92341616 1.79318507 2.32305213 2.11818765
2.79057288 2.43247022 2.24630404 2.13142692 2.05103832 2.26644785] and Actual value is [
2.48676, 1.95335, 2.44191, 1.58782, 1.44395, 2.5394200000000002, 2.3711900000000004, 3.03
5, 1.9699400000000002, 2.4657, 0.89991, 2.3214200000000003, 2.00073, 3.1913099999999996,
2.1156900000000003, 2.6343, 2.8360000000000003, 3.05137, 2.27394, 2.24743, 1.92313, 1.792
93, 2.32323, 2.11773, 2.79094, 2.43209, 2.2463900000000003, 2.1309, 2.05125, 2.26646]
Mean absolute error:- 0.0002447590607040732
Mean squared error:- 8.001606812820172e-08
Root mean squared error:- 0.0002828711157545106
r2 Score:- 0.999999644294013

At random state 797 the model performs very well
At random state 797
Training score is
0.9999997234143995
Predicted value is [2.22006994 2.32311226 2.49200461 2.0639807 2.18863113 1.24123291
2.83596596 3.17756191 2.11556305 2.80731348 1.57167452 2.89315655
2.02505041 2.30866928 1.34734009 1.76144494 2.48660164 3.08885866
2.11347837 2.53918144 1.7532926 2.2323089 2.82357047 2.76614735
2.43859735 2.44836913 2.2664669 1.61621119 2.50982867 2.84825593] and Actual value is [
2.21978, 2.32323, 2.4920400000000003, 2.06367, 2.18896, 1.24074, 2.8360000000000003, 3.17
728, 2.1156900000000003, 2.8079099999999997, 1.5714, 2.89319, 2.0251799999999998, 2.30919
, 1.34759, 1.76145, 2.48676, 3.08854, 2.1139900000000003, 2.5394200000000002, 1.7536, 2.2
327, 2.82334, 2.76579, 2.43872, 2.44876, 2.26646, 1.6158299999999999, 2.51009, 2.84848]
Mean absolute error:- 0.00025762582640149746
Mean squared error:- 9.105207811195222e-08
Root mean squared error:- 0.0003017483688637806
r2 Score:- 0.9999996170716874

At random state 798 the model performs very well
At random state 798
Training score is
0.999999730105537
Predicted value is [1.75870981 1.5882829 2.23772704 2.20147017 2.26648148 1.61621659
1.63324149 2.21123452 1.76146059 1.75336562 1.46184048 2.12501905
2.67617992 2.47499649 2.02497651 2.84828002 1.73834869 2.11354251
2.79884993 2.32308044 2.82365194 2.63447969 1.44419309 3.10711091
1.86427036 2.61954571 1.87968029 2.43857971 1.5716548 2.09031928] and Actual value is [
1.75873, 1.58782, 2.2374099999999997, 2.20173, 2.26646, 1.6158299999999999, 1.63327999999
99998, 2.21126, 1.76145, 1.7536, 1.46181, 2.12466, 2.67585, 2.4748900000000003, 2.0251799
99999998, 2.84848, 1.73797, 2.1139900000000003, 2.79832, 2.32323, 2.82334, 2.6343, 1.443
95, 3.10712, 1.86399, 2.61955, 1.8799599999999999, 2.43872, 1.5714, 2.0906599999999997]
Mean absolute error:- 0.00021853564871730698
Mean squared error:- 7.048008611173682e-08
Root mean squared error:- 0.00026548085827746
r2 Score:- 0.9999996607191944

At random state 799 the model performs very well
At random state 799
Training score is
0.9999997582975801
Predicted value is [1.46510368 2.27549482 2.61954872 1.79316791 2.44677537 2.79880745
1.38096449 2.26647573 1.86431487 2.21121309 1.95286943 1.93107281
1.63815938 1.73802491 1.80028791 1.94276919 2.23774907 1.96941389
1.44419319 1.97548304 2.04397669 1.69477616 1.76144383 1.87964526
1.86002192 1.68157296 2.45189017 1.64840508 3.26048271 2.20791121] and Actual value is [
1.46494, 2.27513, 2.61955, 1.79293, 2.4464900000000003, 2.79832, 1.38079, 2.26646, 1.8639
9, 2.21126, 1.95335, 1.9312900000000002, 1.63794, 1.7379900000000001, 1.8010099999999998,

1.942959999999998, 2.237409999999997, 1.969609999999999, 1.44395, 1.9757, 2.0438400000
000003, 1.6944, 1.76145, 1.879959999999999, 1.8604, 1.68135, 2.451759999999997, 1.6488,
3.26001, 2.20857]

Mean absolute error:- 0.0002684721901219674

Mean squared error:- 1.0337313712590649e-07

Root mean squared error:- 0.0003215169313207416

r2 Score:- 0.9999993802252084

At random state 800 the model performs very well

At random state 800

Training score is

0.9999997434619651

Predicted value is [2.22000678 2.44218976 1.6842603 1.87965258 2.37158789 2.13136051

2.11356297 1.87880822 2.23231642 1.95258802 1.68158502 2.82362818

1.78526213 2.53917277 2.24627996 2.79065729 1.26493988 2.63444067

2.05108076 2.27555021 1.92342667 1.75868816 3.60184851 2.00082152

2.11816512 2.0248267 1.80036875 1.57160273 2.12372654 2.89333104] and Actual value is [

2.21978, 2.44191, 1.68435, 1.879959999999999, 2.3711900000000004, 2.1309, 2.1139900000000

0003, 1.87877, 2.2327, 1.9521, 1.68135, 2.82334, 1.78555, 2.5394200000000002, 2.246390000

0000003, 2.79094, 1.26462, 2.6343, 2.05125, 2.27513, 1.92313, 1.75873, 3.60214000000000003

, 2.00073, 2.11773, 2.025, 1.80109999999998, 1.5714, 2.12367, 2.89319]

Mean absolute error:- 0.0002657147243940357

Mean squared error:- 9.170771678741667e-08

Root mean squared error:- 0.0003028328198650481

r2 Score:- 0.9999995653624708

At random state 801 the model performs very well

At random state 801

Training score is

0.999999714404724

Predicted value is [2.4651603 2.45359631 1.87961834 2.11808004 0.67140048 0.65452693

2.48668109 2.44841359 2.61948067 0.99845705 1.88961999 2.53914854

2.82362042 2.59436399 1.85991277 2.86695853 1.96971163 2.08473933

2.26648187 2.23228036 2.742782 2.46559476 2.67620247 1.95592574

1.84411901 2.21116588 1.75332024 1.68157546 2.27541849 2.20140089] and Actual value is [

2.465309999999997, 2.453729999999997, 1.879959999999999, 2.11773, 0.67108, 0.654289999

9999999, 2.48676, 2.44876, 2.61955, 0.99895, 1.889309999999998, 2.5394200000000002, 2.82

334, 2.5945, 1.8604, 2.86712, 1.9699400000000002, 2.08528, 2.26646, 2.2327, 2.74255, 2.46

57, 2.67585, 1.9563700000000002, 1.84408, 2.21126, 1.7536, 1.68135, 2.27513, 2.20173]

Mean absolute error:- 0.000258904229779829

Mean squared error:- 8.604537212793588e-08

Root mean squared error:- 0.00029333491460774985

r2 Score:- 0.9999997194582488

At random state 802 the model performs very well

At random state 802

Training score is

0.999999741802936

Predicted value is [1.59889857 2.80733573 1.75866196 1.46174412 1.34735481 1.64840921

2.30866706 1.88499305 2.45190343 1.99170389 1.63318583 1.41713675

2.23778804 2.20791132 1.85102689 2.11562256 0.98172588 1.86610767

1.8697244 1.89853435 3.10712728 1.63810863 2.20151111 2.53342777

1.42787488 1.21360076 1.86423396 2.50986199 2.37161537 1.95286978] and Actual value is [

1.59927, 2.807909999999997, 1.75873, 1.46181, 1.34759, 1.6488, 2.30919, 1.885409999999999

98, 2.451759999999997, 1.9917200000000002, 1.6332799999999998, 1.41723, 2.237409999999999

97, 2.20857, 1.851, 2.1156900000000003, 0.98195, 1.86565, 1.8698400000000002, 1.89894, 3.

107090000000004, 1.63794, 2.20173, 2.5332, 1.42766, 1.21305, 1.86399, 2.51009, 2.3711900

00000004, 1.95335]

Mean absolute error:- 0.000270743712986532

Mean squared error:- 1.0640956035656698e-07

Root mean squared error:- 0.00032620478285360407

r2 Score:- 0.9999995198653451

At random state 803 the model performs very well

At random state 803
Training score is
0.9999997373039667
Predicted value is [2.46552523 1.44422509 2.18864971 2.32132587 2.08478379 1.95070722
1.94931223 2.67776198 1.88495913 2.44684961 1.86607867 2.86704402
1.84417568 2.13140636 1.46168784 1.73795335 2.50953734 2.06391568
2.21124957 1.57168466 2.53923392 1.75334207 2.84823966 2.24629529
2.32304288 1.41714553 1.71924774 3.05124644 2.23773919 1.92339014] and Actual value is [
2.4657, 1.44395, 2.18896, 2.3214200000000003, 2.08528, 1.95071, 1.949390000000002, 2.677
82, 1.8854099999999998, 2.4464900000000003, 1.86565, 2.86712, 1.84408, 2.1309, 1.46181, 1
.7379900000000001, 2.51011, 2.06367, 2.21126, 1.5714, 2.5394200000000002, 1.7536, 2.84848
, 2.2463900000000003, 2.32323, 1.41723, 1.719599999999998, 3.05137, 2.2374099999999997,
1.92313]

Mean absolute error:- 0.00022514233690120732
Mean squared error:- 7.46415456643599e-08
Root mean squared error:- 0.00027320604983118493
r2 Score:- 0.9999995828744074

At random state 804 the model performs very well
At random state 804
Training score is
0.9999997412918814

Predicted value is [1.73798227 1.95261003 2.24627081 3.10714542 2.05108613 2.10996457
1.95297165 2.18861811 0.67139988 2.13133552 1.59855193 0.89938226
2.22003903 2.41448966 1.57159167 2.61949515 2.2755995 2.32309673
1.69488255 1.75334403 2.51779704 2.3212898 1.83340556 1.86605931
2.23763102 1.96970646 2.82365313 2.09021647 1.97542675 1.76141084] and Actual value is [
1.7379900000000001, 1.9521, 2.2463900000000003, 3.10712, 2.05125, 2.11032, 1.95335, 2.188
96, 0.67108, 2.1309, 1.598879999999999, 0.89991, 2.21978, 2.4148400000000003, 1.5714, 2.
61955, 2.27513, 2.32323, 1.6944, 1.7536, 2.51767, 2.3214200000000003, 1.83302, 1.86565, 2
.237409999999997, 1.9699400000000002, 2.82334, 2.0906599999999997, 1.9757, 1.76145]

Mean absolute error:- 0.0002762016390462326
Mean squared error:- 9.853987806795155e-08
Root mean squared error:- 0.00031391062114549667
r2 Score:- 0.9999995701090818

At random state 805 the model performs very well
At random state 805
Training score is
0.999999694336955

Predicted value is [1.21357782 0.65448667 1.63809046 0.9984007 2.26426235 2.11811606
3.05129673 1.59892445 2.44847011 2.24189326 2.61955963 1.46504024
2.24710781 1.88498332 2.80743834 3.1071207 3.26046962 2.18866115
2.47498134 1.68151921 1.76143488 0.89937994 1.71922627 1.9694179
2.4421902 1.73800524 2.45189089 2.67619617 1.92335018 2.23235129] and Actual value is [
1.21305, 0.654289999999999, 1.63794, 0.99895, 2.26425, 2.11773, 3.05137, 1.59927, 2.4487
6, 2.24173, 2.61955, 1.46494, 2.24743, 1.88540999999998, 2.80790999999997, 3.10712, 3
.26001, 2.18896, 2.4748900000000003, 1.68135, 1.76145, 0.89991, 1.71959999999998, 1.969
6099999999999, 2.44191, 1.7379900000000001, 2.4517599999999997, 2.67585, 1.92313, 2.2327]

Mean absolute error:- 0.00024857197929580856
Mean squared error:- 8.99188640459229e-08
Root mean squared error:- 0.00029986474291907495
r2 Score:- 0.9999997746817822

At random state 806 the model performs very well
At random state 806
Training score is
0.9999997054714965

Predicted value is [1.96941764 2.79078797 1.73931624 2.79886658 1.88960451 2.74278912
3.60179617 0.89944901 2.3230695 2.31980065 1.92338294 1.58825259
1.71929528 0.65455699 2.85760463 2.83593153 1.89857921 1.24120678
1.95249718 2.44679884 1.96972051 2.24708568 1.88502353 1.83352381
1.73834665 1.88526175 2.08476895 0.67144852 2.21118972 2.20143828] and Actual value is [
1.969609999999999, 2.79094, 1.739329999999998, 2.79832, 1.889309999999998, 2.74255, 3.
6021400000000003, 0.89991, 2.32323, 2.31945, 1.92313, 1.58782, 1.71959999999998, 0.6542
899999999999, 2.85737, 2.8360000000000003, 1.89894, 1.24074, 1.9521, 2.4464900000000003,

1.9699400000000002, 2.24729, 1.8854099999999998, 1.83302, 1.73797, 1.8850099999999999, 2.08528, 0.67108, 2.21126, 2.20173]

Mean absolute error:- 0.00029974324186335204
Mean squared error:- 1.0737211196521442e-07
Root mean squared error:- 0.00032767684075200436
r2 Score:- 0.9999997355821452

At random state 807 the model performs very well

At random state 807

Training score is

0.9999997344172479

Predicted value is [1.73929423 2.24715143 2.80737348 1.24119247 2.85761973 2.06388229 2.45185856 1.44416711 1.26502632 1.95594483 1.95071905 3.26044971 1.59576713 2.26645928 2.20792718 1.34733236 3.19111315 2.84826566 2.18862244 1.69482731 2.76613075 1.89860629 2.02500382 1.86424509 2.50985258 1.64838119 2.47500118 2.44686685 2.89319948 1.86610812] and Actual value is [1.7393299999999998, 2.24729, 2.8079099999999997, 1.24074, 2.85737, 2.06367, 2.4517599999999997, 1.44395, 1.26462, 1.9563700000000002, 1.95071, 3.26001, 1.59541, 2.26646, 2.20857, 1.34759, 3.1913099999999996, 2.84848, 2.18896, 1.6944, 2.76579, 1.89894, 2.0251799999999998, 1.86399, 2.51009, 1.6488, 2.4748900000000003, 2.4464900000000003, 2.89319, 1.86565]

Mean absolute error:- 0.0002791074791657596

Mean squared error:- 1.0415650416879218e-07

Root mean squared error:- 0.00032273286812593507

r2 Score:- 0.9999996572382663

At random state 808 the model performs very well

At random state 808

Training score is

0.9999996879621212

Predicted value is [2.46557909 2.31979753 1.42789354 2.02500418 1.88961721 2.80736388 1.68433979 2.84823321 1.63326593 1.75874133 2.11353712 0.65462146 2.02486939 1.87968526 2.22003033 1.9755118 1.4650925 1.21366386 2.50986636 1.96944684 2.59436485 3.03478576 2.12503173 1.44421475 0.67152802 1.46180296 1.38101009 1.78527536 1.87662132 2.43853021] and Actual value is [2.4657, 2.31945, 1.42766, 2.0251799999999998, 1.8893099999999998, 2.8079099999999997, 1.68435, 2.84848, 1.6332799999999998, 1.75873, 2.1139900000000003, 0.6542899999999999, 2.025, 1.8799599999999999, 2.21978, 1.9757, 1.46494, 1.21305, 2.51009, 1.9696099999999999, 2.5945, 3.035, 2.12466, 1.44395, 0.67108, 1.46181, 1.38079, 1.78555, 1.8763400000000001, 2.43872]

Mean absolute error:- 0.00024005724700932874

Mean squared error:- 7.89790978455996e-08

Root mean squared error:- 0.00028103220072724756

r2 Score:- 0.9999997543325596

At random state 809 the model performs very well

At random state 809

Training score is

0.9999997194128233

Predicted value is [2.06388329 1.96970292 2.23773008 1.97545858 1.75333261 1.85997265 2.02484318 1.73926304 1.93108734 1.68427339 1.89854595 2.02494965 2.74278838 1.41718553 1.64835484 2.83596593 1.95298722 2.24187141 2.27540996 3.60185901 0.65444057 2.4468349 2.21121581 1.87966569 2.1181559 1.57163608 2.67615575 2.13138508 2.63446708 1.95074255] and Actual value is [2.06367, 1.9699400000000002, 2.2374099999999997, 1.9757, 1.7536, 1.8604, 2.025, 1.7393299999999998, 1.9312900000000002, 1.68435, 1.89894, 2.0251799999999998, 2.74255, 1.41723, 1.6488, 2.8360000000000003, 1.95335, 2.24173, 2.27513, 3.6021400000000003, 0.6542899999999999, 2.4464900000000003, 2.21126, 1.8799599999999999, 2.11773, 1.5714, 2.67585, 2.1309, 2.6343, 1.95071]

Mean absolute error:- 0.00023825693522623316

Mean squared error:- 7.310233365254815e-08

Root mean squared error:- 0.0002703744323203438

r2 Score:- 0.9999997164048364

At random state 810 the model performs very well

At random state 810
Training score is
0.9999997527673757
Predicted value is [2.24181948 2.08477023 1.41723986 1.80036638 1.46508227 1.63812457
1.59896652 1.87967271 2.18861708 2.3213497 1.88536282 1.95844676
1.59581716 1.44417533 2.48659158 2.47505042 1.87879324 1.73837906
2.26429658 2.2322791 2.86697601 2.11007433 1.79312947 1.87667231
2.7021204 2.53340884 2.02491491 2.11812438 2.80740823 1.88954902] and Actual value is [
2.24173, 2.08528, 1.41723, 1.8010099999999998, 1.46494, 1.63794, 1.59927, 1.8799599999999999
99, 2.18896, 2.3214200000000003, 1.8850099999999999, 1.95812, 1.59541, 1.44395, 2.48676,
2.4748900000000003, 1.87877, 1.73797, 2.26425, 2.2327, 2.86712, 2.11032, 1.79293, 1.87634
00000000001, 2.70201, 2.5332, 2.0251799999999998, 2.11773, 2.8079099999999997, 1.88930999
99999998]

Mean absolute error:- 0.00025883898266012564
Mean squared error:- 9.01536283112522e-08
Root mean squared error:- 0.000300255938011644
r2 Score:- 0.9999994062218162

At random state 811 the model performs very well
At random state 811
Training score is
0.9999997220874915

Predicted value is [2.86702017 2.76617151 2.89329111 1.92339679 1.97549251 1.95840534
1.61621538 2.31983073 1.57036907 0.89940273 1.68158355 2.26647732
1.69486523 2.51768967 1.89856956 2.1886535 2.04398363 2.61951723
2.20147062 1.86608543 1.73928496 3.17760522 2.24629987 2.8482845
2.22003409 3.19110456 2.09978976 2.51748865 1.24115263 1.95596155] and Actual value is [
2.86712, 2.76579, 2.89319, 1.92313, 1.9757, 1.95812, 1.6158299999999999, 2.31945, 1.57059
, 0.89991, 1.68135, 2.26646, 1.6944, 2.51767, 1.89894, 2.18896, 2.0438400000000003, 2.619
55, 2.20173, 1.86565, 1.7393299999999998, 3.17728, 2.2463900000000003, 2.84848, 2.21978,
3.191309999999996, 2.10017, 2.5173799999999997, 1.24074, 1.9563700000000002]

Mean absolute error:- 0.0002515228115885707
Mean squared error:- 8.322675505665342e-08
Root mean squared error:- 0.00028849047654411994
r2 Score:- 0.9999997075059245

At random state 812 the model performs very well
At random state 812
Training score is
0.9999997226035707

Predicted value is [1.21363716 1.99182613 1.97547738 1.38101487 1.95077932 2.50958434
1.80035867 2.24187893 2.2642239 1.95249236 1.92340153 2.4655669
2.2015099 2.43848866 3.03481998 2.31979435 2.13134288 1.75870268
2.4144843 2.59437051 2.53338079 3.17758224 2.02492844 0.98186555
1.61622468 1.94274206 3.60178567 1.76148118 2.24709997 1.59572196] and Actual value is [
1.21305, 1.991720000000002, 1.9757, 1.38079, 1.95071, 2.51011, 1.801009999999998, 2.241
73, 2.26425, 1.9521, 1.92313, 2.4657, 2.20173, 2.43872, 3.035, 2.31945, 2.1309, 1.75873,
2.414840000000003, 2.5945, 2.5332, 3.17728, 2.025179999999998, 0.98195, 1.6158299999999
99, 1.942959999999998, 3.602140000000003, 1.76145, 2.24729, 1.59541]

Mean absolute error:- 0.0002536487863841493
Mean squared error:- 8.935159199932884e-08
Root mean squared error:- 0.0002989173665067469
r2 Score:- 0.999999696332132

At random state 813 the model performs very well
At random state 813
Training score is
0.9999997349978865

Predicted value is [2.099774 2.13138865 2.20792076 1.75333949 2.24172868 2.63442282
1.58829752 2.75455282 1.87664315 2.2641858 3.60184968 2.26643125
1.62256373 2.05107152 2.02495002 1.57033597 1.8440978 2.32132001
0.98170193 1.41718723 1.78519022 1.76138421 2.50958508 2.2322926
2.4655502 2.45367718 2.24629194 2.53339015 2.49201777 2.32306811] and Actual value is [
2.10017, 2.1309, 2.20857, 1.7536, 2.24173, 2.6343, 1.58782, 2.75414, 1.8763400000000001,
2.26425, 3.602140000000003, 2.26646, 1.62215, 2.05125, 2.025179999999998, 1.57059, 1.84
408, 2.321420000000003, 0.98195, 1.41723, 1.78555, 1.76145, 2.51011, 2.2327, 2.4657, 2.4

5372999999999997, 2.2463900000000003, 2.5332, 2.4920400000000003, 2.32323]

Mean absolute error:- 0.00023376627198884448
Mean squared error:- 8.489207630184317e-08
Root mean squared error:- 0.00029136244833856536
r2 Score:- 0.9999996293149879

At random state 814 the model performs very well
At random state 814
Training score is
0.9999997413052467

Predicted value is [2.67775084 2.32310108 2.32369425 2.51762874 2.05107767 2.24182263
2.53914206 2.70214211 2.83592494 0.8994085 1.42776398 1.75330747
2.50964257 2.11346266 1.38090393 1.78520373 1.73832321 2.10993737
2.86695698 2.02497303 1.95071797 1.97546823 1.85995408 1.69487016
1.8660621 2.23225372 2.31978187 2.26419105 1.26496547 2.04395431] and Actual value is [
2.67782, 2.32323, 2.32407, 2.51767, 2.05125, 2.24173, 2.5394200000000002, 2.70201, 2.8360
000000000003, 0.89991, 1.42766, 1.7536, 2.51011, 2.113990000000003, 1.38079, 1.78555, 1.
73797, 2.11032, 2.86712, 2.025179999999998, 1.95071, 1.9757, 1.8604, 1.6944, 1.86565, 2.
2327, 2.31945, 2.26425, 1.26462, 2.0438400000000003]

Mean absolute error:- 0.0002562925526725509
Mean squared error:- 9.031778034015158e-08
Root mean squared error:- 0.00030052916720370353
r2 Score:- 0.9999995727581202

At random state 815 the model performs very well
At random state 815
Training score is
0.999997238896378

Predicted value is [1.41714944 1.87658256 2.00076205 1.96941386 3.10734148 1.59855001
2.12369945 0.89933233 1.94271542 3.19112116 1.79309119 1.93109788
0.99842547 2.85760788 2.08475963 3.0348596 2.32376052 1.95592926
1.88525626 1.38089802 2.11553664 2.2740521 1.83342665 2.32306466
2.44846539 2.12503272 1.64834374 2.11351582 2.45186628 1.85105473] and Actual value is [
1.41723, 1.8763400000000001, 2.00073, 1.9696099999999999, 3.1070900000000004, 1.598879999
9999999, 2.12367, 0.89991, 1.942959999999998, 3.1913099999999996, 1.79293, 1.93129000000
0002, 0.99895, 2.85737, 2.08528, 3.035, 2.32407, 1.956370000000002, 1.8850099999999999,
1.38079, 2.1156900000000003, 2.27394, 1.83302, 2.32323, 2.44876, 2.12466, 1.6488, 2.11399
0000000003, 2.4517599999999997, 1.851]

Mean absolute error:- 0.00025501725381892694
Mean squared error:- 8.854213897702969e-08
Root mean squared error:- 0.00029756031149504747
r2 Score:- 0.9999996866301527

At random state 816 the model performs very well
At random state 816
Training score is
0.999997084240634

Predicted value is [2.11002307 1.61619482 1.73926664 2.49202575 2.43243336 1.57159096
0.65446969 1.38092984 1.59570913 2.44680361 1.59895868 2.63446395
1.96943273 0.9817667 1.87877233 1.95250442 1.34731551 1.76145263
1.80037972 2.08475546 2.24184607 2.20148842 2.02482919 1.69482637
1.86967694 2.86702717 3.26046054 2.5334171 1.8850236 3.0348538] and Actual value is [
2.11032, 1.6158299999999999, 1.7393299999999998, 2.4920400000000003, 2.43209, 1.5714, 0.6
542899999999999, 1.38079, 1.59541, 2.446490000000003, 1.59927, 2.6343, 1.969609999999999
9, 0.98195, 1.87877, 1.9521, 1.34759, 1.76145, 1.801009999999998, 2.08528, 2.24173, 2.20
173, 2.025, 1.6944, 1.8698400000000002, 2.86712, 3.26001, 2.5332, 1.8854099999999998, 3.0
35]

Mean absolute error:- 0.00024304798765085363
Mean squared error:- 8.194819247043699e-08
Root mean squared error:- 0.0002862659471024051
r2 Score:- 0.9999997400880442

At random state 817 the model performs very well
At random state 817

Training score is
0.9999997197580489
Predicted value is [2.09031608 1.78529327 2.46558534 1.88962388 0.99851344 2.13139461
2.6761912 2.4468795 1.69483914 2.0510382 1.62263943 2.24710919
3.10710818 2.89318946 2.44219745 1.24126396 1.38103164 2.0639907
0.67149582 2.79068416 1.42790166 1.95600337 2.11353646 1.21362642
2.84826145 2.43854274 1.87874517 3.03482173 2.27411611 2.09983606] and Actual value is [
2.0906599999999997, 1.78555, 2.4657, 1.889309999999998, 0.99895, 2.1309, 2.67585, 2.4464
900000000003, 1.6944, 2.05125, 1.62215, 2.24729, 3.10712, 2.89319, 2.44191, 1.24074, 1.38
079, 2.06367, 0.67108, 2.79094, 1.42766, 1.9563700000000002, 2.1139900000000003, 1.21305,
2.84848, 2.43872, 1.87877, 3.035, 2.27394, 2.10017]

Mean absolute error:- 0.0002939072564533074

Mean squared error:- 1.0836414448502589e-07

Root mean squared error:- 0.00032918709647406576

r2 Score:- 0.9999996975390499

At random state 818 the model performs very well

At random state 818

Training score is

0.9999996999037675

Predicted value is [3.05123937 1.38096341 1.69486138 2.09977638 1.8441372 3.10712482
2.02497068 1.7380424 1.71921446 2.24707952 1.57158859 2.05108706
2.23766933 1.46503751 0.67142488 2.08473613 3.10735034 1.59893462
1.93110313 2.50989649 1.89855655 2.23235593 2.6762107 2.76617894
2.12373277 2.70221281 2.24191677 1.62253849 1.41714193 0.8993591] and Actual value is [
3.05137, 1.38079, 1.6944, 2.10017, 1.84408, 3.10712, 2.025179999999998, 1.73799000000000
01, 1.719559999999998, 2.24729, 1.5714, 2.05125, 2.237409999999997, 1.46494, 0.67108, 2
.08528, 3.107090000000004, 1.59927, 1.931290000000002, 2.51009, 1.89894, 2.2327, 2.6758
5, 2.76579, 2.12367, 2.70201, 2.24173, 1.62215, 1.41723, 0.89991]

Mean absolute error:- 0.0002523002156115413

Mean squared error:- 8.412209703268656e-08

Root mean squared error:- 0.00029003809582999016

r2 Score:- 0.9999997562696745

At random state 819 the model performs very well

At random state 819

Training score is

0.9999997439851349

Predicted value is [2.11555035 1.76144655 2.22003226 1.94269005 2.23236625 2.46513493
2.18866729 3.17761836 1.99174134 2.11005654 1.86608076 2.45362781
1.38096676 1.85109146 2.3087068 2.08476556 2.24709092 2.89316514
2.31977156 2.24187031 1.83343877 2.37154234 2.50987914 2.00075727
1.96969424 2.04404604 0.98174525 2.23770504 2.12376873 2.24707362] and Actual value is [
2.115690000000003, 1.76145, 2.21978, 1.942959999999998, 2.2327, 2.465309999999997, 2.1
8896, 3.17728, 1.991720000000002, 2.11032, 1.86565, 2.453729999999997, 1.38079, 1.851,
2.30919, 2.08528, 2.24729, 2.89319, 2.31945, 2.24173, 1.83302, 2.371190000000004, 2.5100
9, 2.00073, 1.969940000000002, 2.043840000000003, 0.98195, 2.237409999999997, 2.12367,
2.24743]

Mean absolute error:- 0.00023301859116393598

Mean squared error:- 7.261534878992409e-08

Root mean squared error:- 0.00026947235255202727

r2 Score:- 0.9999995259965567

At random state 820 the model performs very well

At random state 820

Training score is

0.9999997728048511

Predicted value is [1.9234234 2.80733171 2.12381885 1.86613178 1.58834816 2.12511178
2.4749924 2.44218677 2.22006925 1.87665264 2.43861403 2.0440686
1.86421479 2.02502035 2.37156968 1.57168437 1.75334252 2.46516349
1.95594799 1.71932368 1.64834504 1.38091218 2.46556274 1.68438759
1.78519533 2.70211269 2.20795225 2.43250195 2.41455693 2.44692791] and Actual value is [
1.92313, 2.807909999999997, 2.12367, 1.86565, 1.58782, 2.12466, 2.474890000000003, 2.44
191, 2.21978, 1.876340000000001, 2.43872, 2.043840000000003, 1.86399, 2.02517999999999
8, 2.371190000000004, 1.5714, 1.7536, 2.465309999999997, 1.956370000000002, 1.71955999
9999998, 1.6488, 1.38079, 2.4657, 1.68435, 1.78555, 2.70201, 2.20857, 2.43209, 2.4148400

000000003, 2.44649000000000003]

Mean absolute error:- 0.00029562499783998645
Mean squared error:- 1.1047623584677113e-07
Root mean squared error:- 0.00033237965618667325
r2 Score:- 0.999999161463674

At random state 821 the model performs very well
At random state 821
Training score is
0.9999997313625549

Predicted value is [2.06384932 2.79070763 3.03487713 1.95599026 2.85765533 1.44420657
2.11009885 1.78526387 2.74281849 2.43857348 2.23778796 1.80037534
0.89939128 2.04403982 3.17765032 1.24113296 1.86427304 1.41717327
2.13140859 2.1156296 2.45192801 2.37163651 2.50991423 1.99178409
1.73833275 2.61961806 1.84414215 1.95846849 2.24183925 2.32307411] and Actual value is [
2.06367, 2.79094, 3.035, 1.9563700000000002, 2.85737, 1.44395, 2.11032, 1.78555, 2.74255,
2.43872, 2.2374099999999997, 1.801009999999998, 0.89991, 2.0438400000000003, 3.17728, 1.
24074, 1.86399, 1.41723, 2.1309, 2.1156900000000003, 2.4517599999999997, 2.371190000000000
04, 2.51009, 1.9917200000000002, 1.73797, 2.61955, 1.84408, 1.95812, 2.24173, 2.32323]

Mean absolute error:- 0.00025808833579536635
Mean squared error:- 8.897417402166584e-08
Root mean squared error:- 0.0002982853902249754
r2 Score:- 0.9999996605474013

At random state 822 the model performs very well
At random state 822
Training score is
0.9999997306316186

Predicted value is [2.44676979 1.59569565 2.02490817 1.76144239 2.86698747 1.59890408
1.62250825 2.74283355 1.73799977 1.9696903 2.24176065 0.99842074
2.84828762 1.57032492 3.60186633 2.76608639 2.53341528 1.46505535
1.87880894 1.88500964 1.95282462 2.11357445 2.51770824 2.09970648
1.61623652 2.20784942 1.68154563 2.0439761 2.09024763 2.89319519] and Actual value is [
2.4464900000000003, 1.59541, 2.025179999999998, 1.76145, 2.86712, 1.59927, 1.62215, 2.74
255, 1.7379900000000001, 1.9699400000000002, 2.24173, 0.99895, 2.84848, 1.57059, 3.602140
0000000003, 2.76579, 2.5332, 1.46494, 1.87877, 1.885409999999998, 1.95335, 2.11399000000
0003, 2.51767, 2.10017, 1.615829999999999, 2.20857, 1.68135, 2.0438400000000003, 2.0906
599999999997, 2.89319]

Mean absolute error:- 0.00026403546960771516
Mean squared error:- 1.0018040312252938e-07
Root mean squared error:- 0.0003165128798683071
r2 Score:- 0.9999996595249724

At random state 823 the model performs very well
At random state 823
Training score is
0.9999997567696142

Predicted value is [2.00079438 2.09028274 2.12506855 2.50990794 2.67617816 2.8236429
2.53340223 2.89322844 1.95250839 2.37157578 2.50961506 2.2418697
2.44218652 1.94935673 1.57162491 2.44849643 1.88527845 2.74279964
2.32133057 1.46506942 2.43857648 2.8074622 1.95598035 1.34732
1.96943608 2.20797636 2.79877975 1.86426059 2.49203839 1.83344063] and Actual value is [
2.00073, 2.0906599999999997, 2.12466, 2.51009, 2.67585, 2.82334, 2.5332, 2.89319, 1.9521,
2.3711900000000004, 2.51011, 2.24173, 2.44191, 1.9493900000000002, 1.5714, 2.44876, 1.885
0099999999999, 2.74255, 2.3214200000000003, 1.46494, 2.43872, 2.807909999999997, 1.95637
00000000002, 1.34759, 1.969609999999999, 2.20857, 2.79832, 1.86399, 2.4920400000000003,
1.83302]

Mean absolute error:- 0.00026797116075133833
Mean squared error:- 9.384094645036631e-08
Root mean squared error:- 0.0003063346967784849
r2 Score:- 0.9999994345279776

At random state 824 the model performs very well
At random state 824

Training score is
0.9999997226414227
Predicted value is [2.02488952 3.19109115 1.9234148 1.69488974 1.88526662 1.86968429
3.17757926 1.68160419 2.67778637 1.46507609 2.61950078 1.88964561
2.80742181 1.85108817 1.94274353 1.97549596 2.00080821 2.32132216
1.62262311 1.58829837 3.05118017 2.12508564 1.24123418 1.99179423
1.63814168 2.79875116 2.41451743 3.10708758 2.31981045 1.9530144] and Actual value is [
2.025, 3.1913099999999996, 1.92313, 1.6944, 1.8850099999999999, 1.8698400000000002, 3.177
28, 1.68135, 2.67782, 1.46494, 2.61955, 1.889309999999998, 2.807909999999997, 1.851, 1.
9429599999999998, 1.9757, 2.00073, 2.321420000000003, 1.62215, 1.58782, 3.05137, 2.12466
, 1.24074, 1.9917200000000002, 1.63794, 2.79832, 2.4148400000000003, 3.10712, 2.31945, 1.
95335]

Mean absolute error:- 0.0002538788117051919

Mean squared error:- 8.680506957464137e-08

Root mean squared error:- 0.0002946270007562806

r2 Score:- 0.999999692100964

At random state 825 the model performs very well

At random state 825

Training score is

0.9999997369946838

Predicted value is [1.64835531 1.59575669 1.75874266 2.05108373 1.96943176 1.76140794
2.3237278 0.98173803 2.70210044 2.10994909 1.21352208 2.22004591
1.93113017 1.59857438 1.6161849 2.43858842 1.92342857 2.45370524
2.27552079 2.67777408 3.10710708 1.88957768 2.06387536 1.89858656
2.24713771 2.18860571 1.85109559 1.86426491 2.23230002 2.11813379] and Actual value is [
1.6488, 1.59541, 1.75873, 2.05125, 1.969609999999999, 1.76145, 2.32407, 0.98195, 2.70201
, 2.11032, 1.21305, 2.21978, 1.931290000000002, 1.598879999999999, 1.615829999999999,
2.43872, 1.92313, 2.453729999999997, 2.27513, 2.67782, 3.10712, 1.889309999999998, 2.06
367, 1.89894, 2.24729, 2.18896, 1.851, 1.86399, 2.2327, 2.11773]

Mean absolute error:- 0.00023921145856373727

Mean squared error:- 7.609379774683922e-08

Root mean squared error:- 0.00027585104267854275

r2 Score:- 0.999999578291178

At random state 826 the model performs very well

At random state 826

Training score is

0.999999738440538

Predicted value is [1.6948586 2.45362165 1.85998508 1.61620547 2.24630162 2.20144045
2.790683 2.24709533 0.99849522 1.88960393 2.1181078 1.86966571
2.09027797 1.68428749 3.19105729 1.63323604 2.30871556 3.05116887
2.89320796 1.62259125 2.23231586 1.99176541 1.86607051 2.4749512
1.21356142 2.49199622 1.95070152 1.64842712 1.94936862 2.11000046] and Actual value is [
1.6944, 2.453729999999997, 1.8604, 1.615829999999999, 2.2463900000000003, 2.20173, 2.79
094, 2.24729, 0.99895, 1.889309999999998, 2.11773, 1.869840000000002, 2.090659999999999
7, 1.68435, 3.191309999999996, 1.633279999999998, 2.30919, 3.05137, 2.89319, 1.62215, 2
.2327, 1.991720000000002, 1.86565, 2.474890000000003, 1.21305, 2.492040000000003, 1.95
071, 1.6488, 1.949390000000002, 2.11032]

Mean absolute error:- 0.0002517491135911154

Mean squared error:- 9.028880312137859e-08

Root mean squared error:- 0.0003004809530093024

r2 Score:- 0.9999996244122027

At random state 827 the model performs very well

At random state 827

Training score is

0.9999997019918629

Predicted value is [2.6195632 1.44415727 1.84409912 2.37159773 1.57031444 2.44217033
2.5175323 1.76140569 2.44839952 1.24115843 1.63812126 2.32132055
2.23232188 1.73794233 2.05103542 2.83595319 1.59894761 1.75331134
1.78522745 2.41452232 2.80733739 2.49207239 2.2665012 2.53916931
2.85760727 2.53341504 3.60181605 1.719297 2.7021689 0.8994056] and Actual value is [
2.61955, 1.44395, 1.84408, 2.371190000000004, 1.57059, 2.44191, 2.517379999999997, 1.76
145, 2.44876, 1.24074, 1.63794, 2.321420000000003, 2.2327, 1.737990000000001, 2.05125,
2.836000000000003, 1.59927, 1.7536, 1.78555, 2.414840000000003, 2.807909999999997, 2.4

9204000000000003, 2.26646, 2.5394200000000002, 2.85737, 2.5332, 3.6021400000000003, 1.7195
599999999998, 2.70201, 0.89991]

Mean absolute error:- 0.00023257805982029495
Mean squared error:- 7.539568330775702e-08
Root mean squared error:- 0.0002745827440094461
r2 Score:- 0.9999997646313419

At random state 828 the model performs very well

At random state 828

Training score is

0.999999714568021

Predicted value is [2.44846104 1.93110634 1.8642889 2.46556022 2.4144757 2.5095909
0.89942572 1.83339743 2.12372856 2.50988805 2.79068391 2.26419363
1.63812647 2.82360785 2.51744727 2.02494992 1.7852545 2.20792327
1.92338816 2.20147881 2.23232634 1.62255576 1.94934115 0.67144381
2.59436514 3.60178813 2.24708234 2.61948134 3.17755528 2.00076622] and Actual value is [
2.44876, 1.9312900000000002, 1.86399, 2.4657, 2.4148400000000003, 2.51011, 0.89991, 1.833
02, 2.12367, 2.51009, 2.79094, 2.26425, 1.63794, 2.82334, 2.5173799999999997, 2.025179999
9999998, 1.78555, 2.20857, 1.92313, 2.20173, 2.2327, 1.62215, 1.9493900000000002, 0.67108
, 2.5945, 3.6021400000000003, 2.24743, 2.61955, 3.17728, 2.00073]

Mean absolute error:- 0.0002616425008654333

Mean squared error:- 9.023706709952018e-08

Root mean squared error:- 0.0003003948519857159

r2 Score:- 0.9999997252807596

At random state 829 the model performs very well

At random state 829

Training score is

0.9999997173119212

Predicted value is [2.00076868 1.88501974 2.21119766 2.43856805 0.89938041 1.58822482
2.02484447 2.24711468 0.65446111 3.17759502 3.08885719 1.85996923
1.96970364 2.82364147 3.03484521 1.75869576 2.44844695 2.4144971
1.86427261 2.11555665 2.70216346 1.94937105 2.49199897 1.86605862
1.6948436 2.23230139 1.64839276 2.22002669 2.32309437 2.32375114] and Actual value is [
2.00073, 1.8854099999999998, 2.21126, 2.43872, 0.89991, 1.58782, 2.025, 2.24729, 0.654289
999999999, 3.17728, 3.08854, 1.8604, 1.9699400000000002, 2.82334, 3.035, 1.75873, 2.4487
6, 2.4148400000000003, 1.86399, 2.1156900000000003, 2.70201, 1.9493900000000002, 2.492040
0000000003, 1.86565, 1.6944, 2.2327, 1.6488, 2.21978, 2.32323, 2.32407]

Mean absolute error:- 0.0002504678000941711

Mean squared error:- 8.249480405369075e-08

Root mean squared error:- 0.00028721908720294123

r2 Score:- 0.9999997271029752

At random state 830 the model performs very well

At random state 830

Training score is

0.999999715719719

Predicted value is [1.8510397 1.24117858 2.51759846 1.8642741 1.86969167 2.02497976
2.24631096 2.12500596 1.79312717 1.97547273 2.48671299 2.80739156
2.86703778 2.44839614 1.96970186 1.80042162 2.53914552 2.32372518
1.68425087 2.20139521 2.84824821 2.79883343 2.2200033 2.7021446
1.75868885 1.41718379 2.89328304 0.98168032 3.10728026 2.32128512] and Actual value is [
1.851, 1.24074, 2.51767, 1.86399, 1.8698400000000002, 2.0251799999999998, 2.24639000000000
003, 2.12466, 1.79293, 1.9757, 2.48676, 2.807909999999997, 2.86712, 2.44876, 1.969940000
0000002, 1.8010099999999998, 2.5394200000000002, 2.32407, 1.68435, 2.20173, 2.84848, 2.79
832, 2.21978, 2.70201, 1.75873, 1.41723, 2.89319, 0.98195, 3.1070900000000004, 2.32142000
00000003]

Mean absolute error:- 0.00022671858440819574

Mean squared error:- 7.374820369972259e-08

Root mean squared error:- 0.0002715662050029837

r2 Score:- 0.9999997172002354

At random state 831 the model performs very well

At random state 831

Training score is
0.999997445357668
Predicted value is [1.62255082 1.79314745 2.31978774 1.68430595 1.99184425 2.27549552
2.51753675 1.68153984 1.46510828 2.09022433 1.80038331 2.46562752
2.12505748 2.37161206 2.63443245 2.48654333 2.24711021 1.95848623
1.93107421 1.88529119 2.67614652 1.24111876 1.73926656 1.46176292
0.98178164 2.50961159 1.59857247 1.61619073 1.94276219 2.46518015] and Actual value is [
1.62215, 1.79293, 2.31945, 1.68435, 1.9917200000000002, 2.27513, 2.5173799999999997, 1.68
135, 1.46494, 2.0906599999999997, 1.801009999999998, 2.4657, 2.12466, 2.3711900000000004
, 2.6343, 2.48676, 2.24729, 1.95812, 1.9312900000000002, 1.8850099999999999, 2.67585, 1.2
4074, 1.7393299999999998, 1.46181, 0.98195, 2.51011, 1.5988799999999999, 1.6158299999999999
99, 1.9429599999999998, 2.4653099999999997]

Mean absolute error:- 0.00025998949363134074
Mean squared error:- 8.791615001880083e-08
Root mean squared error:- 0.00029650657668726477
r2 Score:- 0.9999995175226895

At random state 832 the model performs very well

At random state 832

Training score is
0.999997526831846

Predicted value is [2.75452945 2.59440654 2.23779365 1.93113101 2.24712317 1.78525395
1.9694544 2.70213666 1.42791979 3.26046925 2.1181261 1.84418689
1.46510656 1.85110849 2.20797014 1.63324448 2.80733813 1.88527287
2.37159131 1.21365053 2.50957818 2.06388477 2.82362697 1.94931268
1.417178 1.61626384 1.58835875 1.24123646 2.18868793 2.79069947] and Actual value is [
2.75414, 2.5945, 2.2374099999999997, 1.9312900000000002, 2.24743, 1.78555, 1.969609999999
9999, 2.70201, 1.42766, 3.26001, 2.11773, 1.84408, 1.46494, 1.851, 2.20857, 1.633279999999
9998, 2.807909999999997, 1.8850099999999999, 2.3711900000000004, 1.21305, 2.51011, 2.06
367, 2.82334, 1.9493900000000002, 1.41723, 1.6158299999999999, 1.58782, 1.24074, 2.18896,
2.79094]

Mean absolute error:- 0.00030080781317006383
Mean squared error:- 1.198955578093575e-07
Root mean squared error:- 0.00034625937938106093
r2 Score:- 0.9999995548010819

At random state 833 the model performs very well

At random state 833

Training score is
0.99999698671283

Predicted value is [2.27549377 1.738038 1.76143832 1.73926674 3.10710068 1.88530605
2.32377733 1.34730781 1.59576448 1.85995826 2.32131678 2.09980953
1.38095645 2.48663186 1.44417106 2.2419129 0.67139427 2.24626007
2.09026892 2.20145929 2.79880252 2.85759105 0.89936742 2.89326759
1.42782899 1.88957027 1.6225488 2.22000974 1.85110256 1.57034655] and Actual value is [
2.27513, 1.7379900000000001, 1.76145, 1.7393299999999998, 3.10712, 1.8850099999999999, 2.
32407, 1.34759, 1.59541, 1.8604, 2.321420000000003, 2.10017, 1.38079, 2.48676, 1.44395,
2.24173, 0.67108, 2.246390000000003, 2.090659999999997, 2.20173, 2.79832, 2.85737, 0.89
991, 2.89319, 1.42766, 1.8893099999999998, 1.62215, 2.21978, 1.851, 1.57059]

Mean absolute error:- 0.0002389642937316842
Mean squared error:- 7.605960185520927e-08
Root mean squared error:- 0.00027578905318233584
r2 Score:- 0.9999997539202645

At random state 834 the model performs very well

At random state 834

Training score is
0.999997543965792

Predicted value is [2.11351504 2.85764556 1.96958279 1.24121235 1.73829713 1.83345025
1.94933333 2.26409968 2.70211504 1.95242514 2.46547596 1.96936873
1.86963377 1.7852065 1.88500429 2.86693806 2.11551667 1.62257528
2.12508551 1.87874123 1.95295128 2.09979265 2.10990921 2.4650856
2.84827525 1.34729297 1.99175089 1.5989754 1.84416022 1.86610565] and Actual value is [
2.1139900000000003, 2.85737, 1.9699400000000002, 1.24074, 1.73797, 1.83302, 1.94939000000
0002, 2.26425, 2.70201, 1.9521, 2.4657, 1.96960999999999, 1.8698400000000002, 1.78555,
1.885409999999998, 2.86712, 2.115690000000003, 1.62215, 2.12466, 1.87877, 1.95335, 2.10

017, 2.11032, 2.4653099999999997, 2.84848, 1.34759, 1.9917200000000002, 1.59927, 1.84408, 1.86565]

Mean absolute error:- 0.0002801533742750421

Mean squared error:- 9.66252455459182e-08

Root mean squared error:- 0.0003108460158115561

r2 Score:- 0.9999993899978037

At random state 835 the model performs very well

At random state 835

Training score is

0.9999997199415386

Predicted value is [1.86969822 1.83347547 2.45186401 3.10709415 2.11554733 1.44416897 2.37156438 2.18863265 2.83594932 1.8599781 1.99180016 1.68427884 2.08477368 1.64837276 2.85761229 2.4144989 2.26423012 2.63447209 2.67617394 1.78524049 3.0348619 1.92339982 1.62255809 3.19111978 2.48664515 1.58825133 2.53338522 2.47500178 2.82364315 2.59439032] and Actual value is [1.8698400000000002, 1.83302, 2.4517599999999997, 3.10712, 2.1156900000000003, 1.44395, 2.3711900000000004, 2.18896, 2.8360000000000003, 1.8604, 1.9917200000000002, 1.68435, 2.08528, 1.6488, 2.85737, 2.4148400000000003, 2.26425, 2.6343, 2.67585, 1.78555, 3.035, 1.92313, 1.62215, 3.1913099999999996, 2.48676, 1.58782, 2.5332, 2.4748900000000003, 2.82334, 2.5945]

Mean absolute error:- 0.00023396602800883996

Mean squared error:- 7.453246624680369e-08

Root mean squared error:- 0.0002730063483635567

r2 Score:- 0.999999682429506

At random state 836 the model performs very well

At random state 836

Training score is

0.9999997123630466

Predicted value is [2.32305592 2.86696633 1.73928057 1.21361263 2.22002677 1.83342997 2.4864929 2.61954664 1.79310513 2.20789096 1.46163714 2.46514666 1.94266262 2.50984246 2.27546196 2.82367199 3.10710944 1.41714841 1.95287967 3.03487506 1.85110098 2.0249374 1.9584403 3.10724549 1.95072332 2.47498013 0.9983978 1.76146614 1.73827831 1.44418411] and Actual value is [2.32323, 2.86712, 1.739329999999998, 1.21305, 2.21978, 1.83302, 2.48676, 2.61955, 1.79293, 2.20857, 1.46181, 2.465309999999997, 1.942959999999998, 2.51009, 2.27513, 2.82334, 3.10712, 1.41723, 1.95335, 3.035, 1.851, 2.025179999999998, 1.95812, 3.1070900000000004, 1.95071, 2.4748900000000003, 0.99895, 1.76145, 1.73797, 1.44395]

Mean absolute error:- 0.00023290802545107293

Mean squared error:- 8.314814229841338e-08

Root mean squared error:- 0.0002883541959091516

r2 Score:- 0.9999997219427395

At random state 837 the model performs very well

At random state 837

Training score is

0.9999996997953154

Predicted value is [2.23230082 2.48661639 1.42778636 1.99180962 3.10735237 3.19109938 1.38089993 3.08886865 1.87962183 2.37163504 1.41717336 2.67773841 1.3472804 2.1135368 1.88531365 2.59437836 1.80031767 2.11559617 1.73802821 2.49210257 1.75864045 1.24106034 0.89929986 1.6332591 2.63446052 3.2604766 2.09976685 2.04396536 1.73923153 1.88955771] and Actual value is [2.2327, 2.48676, 1.42766, 1.9917200000000002, 3.1070900000000004, 3.1913099999999996, 1.38079, 3.08854, 1.879959999999999, 2.3711900000000004, 1.41723, 2.67782, 1.34759, 2.1139900000000003, 1.885009999999999, 2.5945, 1.80109999999998, 2.1156900000000003, 1.737990000000001, 2.4920400000000003, 1.75873, 1.24074, 0.89991, 1.6332799999999998, 2.6343, 3.26001, 2.10017, 2.0438400000000003, 1.739329999999998, 1.889309999999998]

Mean absolute error:- 0.00024031852645071497

Mean squared error:- 8.791409133316857e-08

Root mean squared error:- 0.00029650310509869634

r2 Score:- 0.9999997557626321

At random state 838 the model performs very well

At random state 838
Training score is
0.9999997343101158
Predicted value is [2.32308818 2.26647223 2.44687996 1.44417377 1.83343974 1.88526489
2.24711188 1.64837165 1.61618504 2.70215631 2.22004238 1.57034819
2.50990877 1.59859789 3.08885887 1.24119102 2.43249689 2.51765509
1.9584703 1.59898007 1.95070268 1.94271919 2.20146428 3.17761042
2.27411701 1.95595722 1.8796871 2.5392271 1.87875253 1.73796057] and Actual value is [
2.32323, 2.26646, 2.4464900000000003, 1.44395, 1.83302, 1.8850099999999999, 2.24729, 1.64
88, 1.6158299999999999, 2.70201, 2.21978, 1.57059, 2.51009, 1.5988799999999999, 3.08854,
1.24074, 2.43209, 2.51767, 1.95812, 1.59927, 1.95071, 1.9429599999999998, 2.20173, 3.1772
8, 2.27394, 1.9563700000000002, 1.8799599999999999, 2.5394200000000002, 1.87877, 1.737990
0000000001]

Mean absolute error:- 0.000243215366566929

Mean squared error:- 7.653450012534256e-08

Root mean squared error:- 0.0002766486944219014

r2 Score:- 0.9999996320225754

At random state 839 the model performs very well

At random state 839

Training score is

0.9999997200232205

Predicted value is [2.44843294 1.87659755 2.09972981 1.59891409 2.83593739 2.10997555
2.2740744 0.89935028 2.00075292 3.19109422 2.084714 2.11350641
2.32304729 1.95837997 2.23229137 2.04394966 2.46514898 1.42780907
1.87874427 1.88499504 0.99844917 1.46503065 2.12370884 2.85761753
2.32374349 2.46556817 3.03482076 2.84825353 2.89325088 2.02478619] and Actual value is [
2.44876, 1.8763400000000001, 2.10017, 1.59927, 2.8360000000000003, 2.11032, 2.27394, 0.89
991, 2.00073, 3.191309999999996, 2.08528, 2.1139900000000003, 2.32323, 1.95812, 2.2327,
2.0438400000000003, 2.4653099999999997, 1.42766, 1.87877, 1.8854099999999998, 0.99895, 1.
46494, 2.12367, 2.85737, 2.32407, 2.4657, 3.035, 2.84848, 2.89319, 2.025]

Mean absolute error:- 0.000249950231656663

Mean squared error:- 8.761925914852122e-08

Root mean squared error:- 0.0002960055052672521

r2 Score:- 0.99999969936938

At random state 840 the model performs very well

At random state 840

Training score is

0.999999709276092

Predicted value is [1.88959108 2.24710819 2.02495342 2.2462766 1.76147525 1.69485024
1.8441156 1.95076632 1.96971432 1.87964372 1.87662136 1.95595711
1.78524779 2.20787862 2.67776579 2.79072547 1.4441594 1.96941902
1.73927437 1.46505825 2.09974375 1.68158143 2.20148908 1.93112927
1.2650125 3.17758201 3.10707332 3.60180354 1.86431824 0.98182426] and Actual value is [
1.889309999999998, 2.24743, 2.025179999999998, 2.2463900000000003, 1.76145, 1.6944, 1.8
4408, 1.95071, 1.969940000000002, 1.879959999999999, 1.8763400000000001, 1.956370000000
0002, 1.78555, 2.20857, 2.67782, 2.79094, 1.44395, 1.969609999999999, 1.739329999999998
, 1.46494, 2.10017, 1.68135, 2.20173, 1.931290000000002, 1.26462, 3.17728, 3.10712, 3.60
21400000000003, 1.86399, 0.98195]

Mean absolute error:- 0.00023913485913631776

Mean squared error:- 7.913986215748522e-08

Root mean squared error:- 0.000281318080040166

r2 Score:- 0.9999997378077894

At random state 841 the model performs very well

At random state 841

Training score is

0.9999997213625524

Predicted value is [1.99173403 2.26422689 2.85767626 2.09031399 1.86972741 2.46559237
1.61625291 2.32380197 2.23236146 2.37157387 3.03488359 2.4866387
2.32135444 1.6815481 2.43248903 2.45366216 1.79314186 1.87970546
0.98170576 3.10713615 1.24121789 1.58832531 1.46182097 2.30872161
2.67618199 2.44691105 2.82365109 1.86614205 3.17763776 1.75873707] and Actual value is [
1.991720000000002, 2.26425, 2.85737, 2.090659999999997, 1.8698400000000002, 2.4657, 1.6
158299999999999, 2.32407, 2.2327, 2.371190000000004, 3.035, 2.48676, 2.321420000000003,

1.68135, 2.43209, 2.4537299999999997, 1.79293, 1.8799599999999999, 0.98195, 3.10712, 1.24074, 1.58782, 1.46181, 2.30919, 2.67585, 2.4464900000000003, 2.82334, 1.86565, 3.17728, 1.75873]

Mean absolute error:- 0.00024671897407047374

Mean squared error:- 8.713509397497394e-08

Root mean squared error:- 0.0002951865409787071

r2 Score:- 0.999996959754677

At random state 842 the model performs very well

At random state 842

Training score is

0.999997173302949

Predicted value is [2.24707508 2.20152332 1.87880201 1.21358704 1.59858882 1.64836231

1.73827526 1.76143752 2.43849199 1.41717214 2.5177156 3.10723997

2.12373753 2.05111619 2.02482702 1.9754238 2.53336682 2.11554775

2.32131117 1.94929205 1.96938225 1.6380826 1.63330989 2.20791376

2.26417156 2.49196465 1.71922784 1.9917961 3.60183475 1.59574962] and Actual value is [

2.24743, 2.20173, 1.87877, 1.21305, 1.5988799999999999, 1.6488, 1.73797, 1.76145, 2.43872

, 1.41723, 2.51767, 3.107090000000004, 2.12367, 2.05125, 2.025, 1.9757, 2.5332, 2.115690

0000000003, 2.3214200000000003, 1.9493900000000002, 1.9696099999999999, 1.63794, 1.633279

9999999998, 2.20857, 2.26425, 2.4920400000000003, 1.7195599999999998, 1.9917200000000002,

3.602140000000003, 1.59541]

Mean absolute error:- 0.0002029481335674858

Mean squared error:- 6.487033167558977e-08

Root mean squared error:- 0.00025469654822079895

r2 Score:- 0.999997177431279

At random state 843 the model performs very well

At random state 843

Training score is

0.999996947093157

Predicted value is [2.05104355 2.70222077 2.11005599 2.32133062 0.99838123 3.1071869

1.79311576 1.86432119 2.5096506 1.86000014 1.57164867 3.17767209

1.99176259 2.11811891 2.85767471 1.26495673 3.08891927 2.67622043

1.93111615 2.61953133 1.41710195 1.94931413 2.24188328 3.03488876

2.32310338 1.34735854 2.0007488 2.59441943 2.26648341 1.73928977] and Actual value is [

2.05125, 2.70201, 2.11032, 2.321420000000003, 0.99895, 3.10712, 1.79293, 1.86399, 2.5101

1, 1.8604, 1.5714, 3.17728, 1.991720000000002, 2.11773, 2.85737, 1.26462, 3.08854, 2.675

85, 1.931290000000002, 2.61955, 1.41723, 1.949390000000002, 2.24173, 3.035, 2.32323, 1.

34759, 2.00073, 2.5945, 2.26646, 1.739329999999998]

Mean absolute error:- 0.00021426432433347594

Mean squared error:- 6.769976222729444e-08

Root mean squared error:- 0.0002601917797073813

r2 Score:- 0.999997872166214

At random state 844 the model performs very well

At random state 844

Training score is

0.999997341309215

Predicted value is [1.34723083 1.59588064 3.10745441 1.4616503 2.0511776 2.75464038

1.95851582 1.6483014 2.7428098 1.95304145 0.98172752 1.76138336

1.87967871 2.79877004 1.92343867 1.69484684 1.71919921 1.42777912

2.27555555 2.11817145 1.59902113 2.84827336 2.48654782 2.30877721

2.1251536 2.83598078 2.06393024 1.79309643 1.898626 3.17762654] and Actual value is [

1.34759, 1.59541, 3.107090000000004, 1.46181, 2.05125, 2.75414, 1.95812, 1.6488, 2.74255

, 1.95335, 0.98195, 1.76145, 1.8799599999999999, 2.79832, 1.92313, 1.6944, 1.7195599999999998,

1.42766, 2.27513, 2.11773, 1.59927, 2.84848, 2.48676, 2.30919, 2.12466, 2.836000000

0000003, 2.06367, 1.79293, 1.89894, 3.17728]

Mean absolute error:- 0.00030642882682397157

Mean squared error:- 1.1204856897594303e-07

Root mean squared error:- 0.00033473656653545194

r2 Score:- 0.9999996216018512

At random state 845 the model performs very well

At random state 845
Training score is
0.99999971136624
Predicted value is [2.27412574 2.8576396 3.10728608 1.93115967 2.79879413 2.46554404
2.75457994 1.9427469 1.26500872 2.3238143 2.51769886 2.24711881
1.61621138 1.95848259 2.61951223 1.83346538 2.02489916 1.57168816
2.09030345 2.4468769 1.44421127 2.50990287 3.19114198 1.88499989
1.59901141 2.86705511 1.96939212 1.78526059 0.67140644 2.22005205] and Actual value is [
2.27394, 2.85737, 3.1070900000000004, 1.9312900000000002, 2.79832, 2.4657, 2.75414, 1.942
9599999999998, 1.26462, 2.32407, 2.51767, 2.24729, 1.6158299999999999, 1.95812, 2.61955,
1.83302, 2.025, 1.5714, 2.0906599999999997, 2.4464900000000003, 1.44395, 2.51009, 3.19130
99999999996, 1.885409999999998, 1.59927, 2.86712, 1.9696099999999999, 1.78555, 0.67108,
2.21978]

Mean absolute error:- 0.0002574910020828769

Mean squared error:- 8.088850149772919e-08

Root mean squared error:- 0.00028440903905770857

r2 Score:- 0.999999742008741

At random state 846 the model performs very well

At random state 846

Training score is

0.9999997294075352

Predicted value is [3.26045926 1.85105008 2.7907438 2.50990112 1.21365583 1.88526852
2.24630378 2.31982846 1.61628974 2.24715329 2.0248278 0.67148727
2.23778226 1.84416377 2.44681313 2.26652638 2.44845597 1.94270013
1.26504892 1.78527915 1.64847142 1.87663399 1.76147899 2.37161636
1.80037066 2.43852502 1.79315517 3.03483957 2.53345406 1.41719747] and Actual value is [
3.26001, 1.851, 2.79094, 2.51009, 1.21305, 1.8850099999999999, 2.2463900000000003, 2.3194
5, 1.6158299999999999, 2.24743, 2.025, 0.67108, 2.2374099999999997, 1.84408, 2.4464900000
000003, 2.26646, 2.44876, 1.942959999999998, 1.26462, 1.78555, 1.6488, 1.8763400000000000
1, 1.76145, 2.3711900000000004, 1.8010099999999998, 2.43872, 1.79293, 3.035, 2.5332, 1.41
723]

Mean absolute error:- 0.00027410064312441234

Mean squared error:- 9.946798980935625e-08

Root mean squared error:- 0.00031538546226697936

r2 Score:- 0.9999996543198449

At random state 847 the model performs very well

At random state 847

Training score is

0.9999997550612415

Predicted value is [2.8670102 1.89854902 1.97546605 2.27541134 1.84410431 1.92337696
1.59571813 1.9559202 3.03482458 2.24185884 1.85994193 1.58825348
2.44842225 1.80043024 2.13136574 2.51748989 2.20141213 1.75330818
1.73927197 1.87873021 1.78521523 2.51763339 1.62257221 2.61952355
2.24712607 2.49202769 2.46557408 2.41448869 2.63443529 2.06389902] and Actual value is [
2.86712, 1.89894, 1.9757, 2.27513, 1.84408, 1.92313, 1.59541, 1.956370000000002, 3.035,
2.24173, 1.8604, 1.58782, 2.44876, 1.80100999999998, 2.1309, 2.517379999999997, 2.2017
3, 1.7536, 1.739329999999998, 1.87877, 1.78555, 2.51767, 1.62215, 2.61955, 2.24743, 2.49
20400000000003, 2.4657, 2.414840000000003, 2.6343, 2.06367]

Mean absolute error:- 0.000247317896349634

Mean squared error:- 8.560054810785272e-08

Root mean squared error:- 0.00029257571346209295

r2 Score:- 0.9999994107952124

At random state 848 the model performs very well

At random state 848

Training score is

0.9999997220772208

Predicted value is [1.885007 1.86609097 1.38094339 2.09025222 2.84827963 2.67615831
2.48659151 2.32379904 1.86426943 1.63812084 2.49207258 3.10726658
1.78524301 2.23774027 1.99178118 2.30872582 2.74279899 2.82364151
0.98170956 1.84412177 2.24180556 1.87661082 1.58828065 2.83598667
2.0847784 2.23235613 3.2604937 1.76139298 1.46507031 2.67778675] and Actual value is [
1.885409999999998, 1.86565, 1.38079, 2.090659999999997, 2.84848, 2.67585, 2.48676, 2.32
407, 1.86399, 1.63794, 2.4920400000000003, 3.107090000000004, 1.78555, 2.2374099999999999

7, 1.9917200000000002, 2.30919, 2.74255, 2.82334, 0.98195, 1.84408, 2.24173, 1.8763400000
000001, 1.58782, 2.8360000000000003, 2.08528, 2.2327, 3.26001, 1.76145, 1.46494, 2.67782]

Mean absolute error:- 0.000246271651300393

Mean squared error:- 8.26096964814019e-08

Root mean squared error:- 0.0002874190259558367

r2 Score:- 0.9999997073873931

At random state 849 the model performs very well

At random state 849

Training score is

0.9999997260492017

Predicted value is [2.89320622 2.45187964 1.42790708 1.57169075 2.13139942 1.68149993
2.74277267 1.71931006 2.1100182 1.75871237 3.60179007 1.41715834
2.04403237 2.80734793 1.95073294 2.8359684 1.5989792 2.50988094
2.32379579 2.44220873 2.20148559 2.08477097 2.51749818 2.31981752
1.95844117 1.2650041 1.89855395 2.63439922 2.0902546 2.22001321] and Actual value is [
2.89319, 2.4517599999999997, 1.42766, 1.5714, 2.1309, 1.68135, 2.74255, 1.7195599999999999
8, 2.11032, 1.75873, 3.6021400000000003, 1.41723, 2.0438400000000003, 2.8079099999999997,
1.95071, 2.8360000000000003, 1.59927, 2.51009, 2.32407, 2.44191, 2.20173, 2.08528, 2.5173
799999999997, 2.31945, 1.95812, 1.26462, 1.89894, 2.6343, 2.0906599999999997, 2.21978]

Mean absolute error:- 0.0002495572840935415

Mean squared error:- 8.354745576474659e-08

Root mean squared error:- 0.00028904576759528343

r2 Score:- 0.9999996803014229

At random state 850 the model performs very well

At random state 850

Training score is

0.9999997424297673

Predicted value is [2.46562278 1.8003974 2.0007988 1.62257737 2.13141646 2.44220609
1.85999222 2.02483878 1.86610132 2.53919827 2.43247119 1.41719144
3.26047675 1.59567023 1.75335054 3.60182531 3.03483935 1.44420286
1.59895944 1.58830423 2.23234654 2.8073484 1.93107659 2.08477713
2.51755466 2.70216006 2.76609732 2.12377282 1.8787805 2.5334225] and Actual value is [
2.4657, 1.801009999999998, 2.00073, 1.62215, 2.1309, 2.44191, 1.8604, 2.025, 1.86565, 2.
5394200000000002, 2.43209, 1.41723, 3.26001, 1.59541, 1.7536, 3.602140000000003, 3.035,
1.44395, 1.59927, 1.58782, 2.2327, 2.80790999999997, 1.9312900000000002, 2.08528, 2.517
3799999999997, 2.70201, 2.76579, 2.12367, 1.87877, 2.5332]

Mean absolute error:- 0.0002919649456084139

Mean squared error:- 1.1096152883675826e-07

Root mean squared error:- 0.0003331088843557888

r2 Score:- 0.9999996179854524

At random state 851 the model performs very well

At random state 851

Training score is

0.9999997400292655

Predicted value is [2.83595231 2.24703998 1.96938962 2.32307333 1.85113051 2.59437278
1.83351207 2.80735487 2.4422147 1.87969376 1.24128083 2.11552733
2.18868624 1.88960984 2.43247252 1.95849632 2.24706116 1.63811943
1.89860416 1.21366465 3.60174822 2.53336099 1.94270837 2.30866992
2.75450677 2.67619731 1.57174239 2.31978074 3.10709018 2.50987673] and Actual value is [
2.8360000000000003, 2.24743, 1.969609999999999, 2.32323, 1.851, 2.5945, 1.83302, 2.80790
9999999997, 2.44191, 1.879959999999999, 1.24074, 2.1156900000000003, 2.18896, 1.8893099
99999998, 2.43209, 1.95812, 2.24729, 1.63794, 1.89894, 1.21305, 3.6021400000000003, 2.53
32, 1.9429599999999998, 2.30919, 2.75414, 2.67585, 1.5714, 2.31945, 3.10712, 2.51009]

Mean absolute error:- 0.0003013374932967198

Mean squared error:- 1.120997870627098e-07

Root mean squared error:- 0.0003348130628615165

r2 Score:- 0.999999575634476

At random state 852 the model performs very well

At random state 852

Training score is

0.9999997290351262
Predicted value is [1.62257045 1.87879375 1.59854399 3.08882411 2.74276843 2.27417616
2.44848998 1.97537965 2.63444711 1.79312994 0.98164042 1.86970894
2.13141622 2.45372945 2.50955187 2.32307532 2.84825516 1.42780067
2.00084866 1.63327897 2.18859208 1.87969971 1.92344372 2.26638671
2.86707204 2.12512541 1.64825821 1.73789531 2.75462907 1.34727503] and Actual value is [
1.62215, 1.87877, 1.5988799999999999, 3.08854, 2.74255, 2.27394, 2.44876, 1.9757, 2.6343,
1.79293, 0.98195, 1.8698400000000002, 2.1309, 2.4537299999999997, 2.51011, 2.32323, 2.848
48, 1.42766, 2.00073, 1.633279999999998, 2.18896, 1.8799599999999999, 1.92313, 2.26646,
2.86712, 2.12466, 1.6488, 1.7379900000000001, 2.75414, 1.34759]

Mean absolute error:- 0.0002526953907223165

Mean squared error:- 8.925544610682824e-08

Root mean squared error:- 0.00029875649968967745

r2 Score:- 0.9999996374523777

At random state 853 the model performs very well

At random state 853

Training score is

0.9999997330338561

Predicted value is [1.4441526 1.85995162 2.43249382 3.0512209 1.83342037 2.22004901
1.41716771 2.26648936 1.86607207 2.44838876 1.87666227 0.99854075
2.12375779 1.95244762 2.20140049 0.98166225 2.83595622 2.11557685
2.11348546 2.53918207 1.58829519 3.03483273 1.59572339 1.46503442
2.7545575 2.0248874 2.70213941 2.80733654 1.738396 2.09985869] and Actual value is [
1.44395, 1.8604, 2.43209, 3.05137, 1.83302, 2.21978, 1.41723, 2.26646, 1.86565, 2.44876,
1.8763400000000001, 0.99895, 2.12367, 1.9521, 2.20173, 0.98195, 2.8360000000000003, 2.115
6900000000003, 2.1139900000000003, 2.5394200000000002, 1.58782, 3.035, 1.59541, 1.46494,
2.75414, 2.025, 2.70201, 2.807909999999997, 1.73797, 2.10017]

Mean absolute error:- 0.0002820800660596016

Mean squared error:- 1.0232744137001116e-07

Root mean squared error:- 0.00031988660705007825

r2 Score:- 0.9999996491552102

At random state 854 the model performs very well

At random state 854

Training score is

0.9999997681855606

Predicted value is [2.13134125 2.24711624 2.80739654 2.32374851 2.20791332 2.83590053
1.69481353 2.30871659 1.75868038 1.59897099 1.80036307 1.86429311
2.24709083 2.41448899 2.44845367 2.18862974 2.24625469 1.9525033
2.02481229 1.42784919 1.76141004 2.12372301 2.49202217 1.88525921
1.63327724 1.73925301 1.46178856 2.04398492 2.50960328 1.46507122] and Actual value is [
2.1309, 2.24743, 2.807909999999997, 2.32407, 2.20857, 2.8360000000000003, 1.6944, 2.3091
9, 1.75873, 1.59927, 1.801009999999998, 1.86399, 2.24729, 2.4148400000000003, 2.44876, 2
.18896, 2.2463900000000003, 1.9521, 2.025, 1.42766, 1.76145, 2.12367, 2.4920400000000003,
1.885009999999999, 1.633279999999998, 1.739329999999998, 1.46181, 2.0438400000000003,
2.51011, 1.46494]

Mean absolute error:- 0.0002626021222342715

Mean squared error:- 1.0282147924272859e-07

Root mean squared error:- 0.00032065788504686513

r2 Score:- 0.9999992626496699

At random state 855 the model performs very well

At random state 855

Training score is

0.9999997297261535

Predicted value is [1.75335026 2.79072559 2.02484679 2.24628364 1.95246181 1.84414709
1.6161942 2.75455696 2.32307154 2.06387883 2.1250772 3.26045753
0.89942968 2.80741265 2.21126217 1.46506886 1.38093246 1.68155997
2.04405155 1.88499345 2.18862943 2.6195719 2.37158518 1.95297787
0.65452143 1.2135802 2.82362849 2.113572 2.50958532 2.50986971] and Actual value is [
1.7536, 2.79094, 2.025, 2.2463900000000003, 1.9521, 1.84408, 1.615829999999999, 2.75414,
2.32323, 2.06367, 2.12466, 3.26001, 0.89991, 2.807909999999997, 2.21126, 1.46494, 1.3807
9, 1.68135, 2.0438400000000003, 1.885409999999998, 2.18896, 2.61955, 2.3711900000000004,
1.95335, 0.654289999999999, 1.21305, 2.82334, 2.1139900000000003, 2.51011, 2.51009]

Mean absolute error:- 0.0002862633205038249
Mean squared error:- 1.0420860642000688e-07
Root mean squared error:- 0.00032281357843189757
r2 Score:- 0.9999996858641921

At random state 856 the model performs very well
At random state 856
Training score is
0.9999997623326738
Predicted value is [2.24633884 2.12510553 2.53343229 2.27418152 0.65455587 1.59577717
2.46520773 2.32373691 2.11814351 1.88534356 2.80731727 2.27549264
1.73792276 2.13143018 2.05102714 1.63813183 2.23231197 1.5883403
2.30871719 2.31975833 1.62262309 2.53921049 2.2471634 3.17756016
2.44689769 2.2079387 1.68154797 1.41718941 1.89858784 2.26426755] and Actual value is [
2.2463900000000003, 2.12466, 2.5332, 2.27394, 0.6542899999999999, 1.59541, 2.465309999999
9997, 2.32407, 2.11773, 1.8850099999999999, 2.8079099999999997, 2.27513, 1.737990000000000
01, 2.1309, 2.05125, 1.63794, 2.2327, 1.58782, 2.30919, 2.31945, 1.62215, 2.5394200000000
02, 2.24729, 3.17728, 2.4464900000000003, 2.20857, 1.68135, 1.41723, 1.89894, 2.26425]

Mean absolute error:- 0.0003059845008170729
Mean squared error:- 1.2031750665610424e-07
Root mean squared error:- 0.0003468681401571846
r2 Score:- 0.9999994455045367

At random state 857 the model performs very well
At random state 857
Training score is
0.9999997070612777
Predicted value is [1.64835696 2.24630373 1.84412985 2.47498867 2.6195733 2.80741492
2.31974909 1.75869555 2.27411063 2.83599634 0.98166423 2.04403435
2.24184919 2.32306037 0.89938391 2.79885072 1.633194 1.26493722
1.57163608 3.10713466 1.63807916 2.08476937 1.92336939 2.13139919
1.57029955 1.95072598 1.34731596 2.67777926 1.71929035 2.70215671] and Actual value is [
1.6488, 2.2463900000000003, 1.84408, 2.4748900000000003, 2.61955, 2.8079099999999997, 2.3
1945, 1.75873, 2.27394, 2.8360000000000003, 0.98195, 2.0438400000000003, 2.24173, 2.32323
, 0.89991, 2.79832, 1.6332799999999998, 1.26462, 1.5714, 3.10712, 1.63794, 2.08528, 1.923
13, 2.1309, 1.57059, 1.95071, 1.34759, 2.67782, 1.7195599999999998, 2.70201]

Mean absolute error:- 0.00022032349152443232
Mean squared error:- 7.694736143921739e-08
Root mean squared error:- 0.0002773938741919464
r2 Score:- 0.999999751078161

At random state 858 the model performs very well
At random state 858
Training score is
0.9999997607373345
Predicted value is [1.85997168 2.51755972 2.02484496 2.74283145 2.67621606 2.24627246
2.09022296 2.13135587 2.76622281 2.44222039 2.59441009 1.7392512
1.71921639 2.11817573 0.89929565 1.76140754 2.0440271 1.95259975
1.9427558 3.10746773 1.96945018 2.12372611 2.26432721 2.11560656
2.22003543 1.80035709 2.70219819 1.61613368 2.37164238 2.12506234] and Actual value is [
1.8604, 2.5173799999999997, 2.025, 2.74255, 2.67585, 2.2463900000000003, 2.09065999999999
97, 2.1309, 2.76579, 2.44191, 2.5945, 1.7393299999999998, 1.7195599999999998, 2.11773, 0.
89991, 1.76145, 2.0438400000000003, 1.9521, 1.9429599999999998, 3.1070900000000004, 1.969
60999999999999, 2.12367, 2.26425, 2.1156900000000003, 2.21978, 1.8010099999999998, 2.70201
, 1.6158299999999999, 2.3711900000000004, 2.12466]

Mean absolute error:- 0.00028931347498607117
Mean squared error:- 1.1186768740943326e-07
Root mean squared error:- 0.000334466272454239
r2 Score:- 0.9999993817049595

At random state 859 the model performs very well
At random state 859
Training score is
0.9999997328896
Predicted value is [2.024929 0.98170676 2.00080067 1.59857185 1.41719391 2.51767144

2.47503635 2.26647838 2.08476685 2.49206501 2.44681775 2.12372882
1.92339213 1.87664879 2.22000341 2.67615518 2.46559298 1.96970291
2.09978087 1.34728479 2.5099336 2.24627325 2.02481005 2.37159259
1.79311578 2.45366704 2.83596736 2.23228541 1.87966355 1.73834454] and Actual value is [
2.0251799999999998, 0.98195, 2.00073, 1.5988799999999999, 1.41723, 2.51767, 2.474890000000
00003, 2.26646, 2.08528, 2.4920400000000003, 2.4464900000000003, 2.12367, 1.92313, 1.8763
400000000001, 2.21978, 2.67585, 2.4657, 1.9699400000000002, 2.10017, 1.34759, 2.51009, 2.
2463900000000003, 2.025, 2.371190000000004, 1.79293, 2.453729999999997, 2.836000000000000
003, 2.2327, 1.879959999999999, 1.73797]

Mean absolute error:- 0.00021235486505438717
Mean squared error:- 6.38399661637481e-08
Root mean squared error:- 0.000252665720199136
r2 Score:- 0.9999996147039065

At random state 860 the model performs very well

At random state 860

Training score is

0.999999732477465

Predicted value is [2.2740415 1.95598273 1.79311295 1.68156816 2.79072941 2.32379614
2.43849128 1.73930246 1.26503248 2.50985561 1.8850274 1.71923516
2.20791723 2.45363012 2.0847373 1.8696583 0.67149482 2.0638982
2.11556093 2.1250354 2.20149631 1.92338027 2.24184594 1.86002217
1.75872635 2.09028748 1.38098271 2.24709078 1.21363753 0.65458395] and Actual value is [
2.27394, 1.9563700000000002, 1.79293, 1.68135, 2.79094, 2.32407, 2.43872, 1.73932999999999
998, 1.26462, 2.51009, 1.8854099999999998, 1.7195599999999998, 2.20857, 2.4537299999999999
7, 2.08528, 1.8698400000000002, 0.67108, 2.06367, 2.1156900000000003, 2.12466, 2.20173, 1
.92313, 2.24173, 1.8604, 1.75873, 2.090659999999997, 1.38079, 2.24729, 1.21305, 0.654289
999999999]

Mean absolute error:- 0.0002745575142446629

Mean squared error:- 9.855808834145395e-08

Root mean squared error:- 0.000313939625312661

r2 Score:- 0.9999995801301603

At random state 861 the model performs very well

At random state 861

Training score is

0.9999997172035169

Predicted value is [2.83595318 1.59859407 1.94271284 0.99839878 2.08477057 2.67621221
3.0512409 2.27404719 2.06397271 2.51746871 2.79069925 1.86963406
1.69484842 2.20146518 2.11812418 1.93112369 2.24192216 1.61618631
2.41448907 1.46164637 2.61949612 2.11555585 1.95069027 2.59439527
1.62256671 1.84415941 3.26043514 2.12375714 1.97548902 3.19109307] and Actual value is [
2.8360000000000003, 1.5988799999999999, 1.9429599999999998, 0.99895, 2.08528, 2.67585, 3.
05137, 2.27394, 2.06367, 2.5173799999999997, 2.79094, 1.8698400000000002, 1.6944, 2.20173
, 2.11773, 1.9312900000000002, 2.24173, 1.6158299999999999, 2.4148400000000003, 1.46181,
2.61955, 2.1156900000000003, 1.95071, 2.5945, 1.62215, 1.84408, 3.26001, 2.12367, 1.9757,
3.191309999999996]

Mean absolute error:- 0.00023875723589327584

Mean squared error:- 7.759327061075808e-08

Root mean squared error:- 0.00027855568673203944

r2 Score:- 0.999999713011291

At random state 862 the model performs very well

At random state 862

Training score is

0.9999997220112382

Predicted value is [2.10999871 2.2200318 3.2604949 2.32132363 1.86968548 1.95298148
2.23768407 1.95844808 2.70212515 2.27549222 1.9754348 1.76139568
2.43246997 2.24628582 2.32308384 1.833409 3.05125896 0.98170354
2.26644516 1.89857714 1.34727723 2.18861907 2.5333986 2.02483986
1.99180779 1.68427979 1.75332639 1.6332878 1.88955294 2.89326203] and Actual value is [
2.11032, 2.21978, 3.26001, 2.321420000000003, 1.8698400000000002, 1.95335, 2.2374099999
99997, 1.95812, 2.70201, 2.27513, 1.9757, 1.76145, 2.43209, 2.2463900000000003, 2.32323,
1.83302, 3.05137, 0.98195, 2.26646, 1.89894, 1.34759, 2.18896, 2.5332, 2.025, 1.991720000
0000002, 1.68435, 1.7536, 1.633279999999998, 1.889309999999998, 2.89319]

```
Mean absolute error:- 0.0002199260000600556
Mean squared error:- 6.450057611340997e-08
Root mean squared error:- 0.0002539696362036414
r2 Score:- 0.9999997010300713
*****
```

At random state 863 the model performs very well
At random state 863
Training score is
0.9999997261430214

Predicted value is [2.00081725 1.8600178 2.89326338 1.63330518 1.95254251 1.88502429
2.04402788 1.73799076 2.85760553 2.80744456 2.27550406 2.24712847
1.42783755 1.96973823 2.22003714 2.12508234 2.84825278 2.02497907
3.1910863 1.68158169 1.87662644 2.5174991 1.61619076 1.85110654
2.12374605 2.63443628 2.67615708 1.89858119 1.41720873 1.95075073] and Actual value is [
2.00073, 1.8604, 2.89319, 1.6332799999999998, 1.9521, 1.8854099999999998, 2.043840000000000
003, 1.7379900000000001, 2.85737, 2.8079099999999997, 2.27513, 2.24729, 1.42766, 1.969940
0000000002, 2.21978, 2.12466, 2.84848, 2.0251799999999998, 3.1913099999999996, 1.68135, 1
.8763400000000001, 2.5173799999999997, 1.6158299999999999, 1.851, 2.12367, 2.6343, 2.6758
5, 1.89894, 1.41723, 1.95071]

```
Mean absolute error:- 0.00021922669838229472
Mean squared error:- 6.59132781118567e-08
Root mean squared error:- 0.00025673581384603447
r2 Score:- 0.9999996848773217
*****
```

At random state 864 the model performs very well
At random state 864
Training score is
0.9999997327151643

Predicted value is [1.4651114 2.24711604 2.05111655 2.59440845 3.19113107 2.79878254
2.74277879 2.45367889 1.58830841 1.26499685 1.94937263 2.12508364
2.43857289 1.97544328 2.13142304 1.8511532 3.26046439 2.11557299
2.41451145 2.18865469 2.79069178 1.59577991 1.88954903 2.30872529
1.96940935 2.02499429 2.70209854 2.44223931 1.99179645 1.57169515] and Actual value is [
1.46494, 2.24729, 2.05125, 2.5945, 3.191309999999996, 2.79832, 2.74255, 2.45372999999999
97, 1.58782, 1.26462, 1.9493900000000002, 2.12466, 2.43872, 1.9757, 2.1309, 1.851, 3.2600
1, 2.1156900000000003, 2.4148400000000003, 2.18896, 2.79094, 1.59541, 1.889309999999998,
2.30919, 1.9696099999999999, 2.025179999999998, 2.70201, 2.44191, 1.9917200000000002, 1.
5714]

```
Mean absolute error:- 0.0002527010540040194
Mean squared error:- 8.361768864286551e-08
Root mean squared error:- 0.00028916723300343957
r2 Score:- 0.9999996313199997
*****
```

At random state 865 the model performs very well
At random state 865
Training score is
0.9999996955657349

Predicted value is [3.05122478 2.83594726 2.32307327 1.24113104 2.09024634 1.94935587
2.321313 0.9817687 1.95076392 2.67776114 2.24628131 2.12374445
2.74279685 1.8643093 3.10726288 1.73828758 1.57033394 1.80035741
3.03482123 2.43852453 1.96973701 1.34736258 2.49201284 1.86608469
2.32376874 1.41719399 1.75867587 2.465158 1.46507345 2.53341151] and Actual value is [
3.05137, 2.836000000000003, 2.32323, 1.24074, 2.090659999999997, 1.9493900000000002, 2.
3214200000000003, 0.98195, 1.95071, 2.67782, 2.2463900000000003, 2.12367, 2.74255, 1.8639
9, 3.1070900000000004, 1.73797, 1.57059, 1.801009999999998, 3.035, 2.43872, 1.9699400000
000002, 1.34759, 2.4920400000000003, 1.86565, 2.32407, 1.41723, 1.75873, 2.46530999999999
97, 1.46494, 2.5332]

```
Mean absolute error:- 0.0001965950579373099
Mean squared error:- 5.867206763946942e-08
Root mean squared error:- 0.0002422231773374906
r2 Score:- 0.9999998052625444
*****
```

At random state 866 the model performs very well
At random state 866
Training score is

0.9999997090232802
Predicted value is [2.24710236 1.46507272 2.09025972 1.73928485 2.21123299 0.98179607
1.6948012 2.37156978 2.85762288 1.95294444 1.96942 2.53340717
2.26648065 2.06388675 1.46172086 1.58826031 1.95844231 1.85109928
2.09977967 0.65451157 1.94271463 2.08475521 2.86702579 2.61953594
1.44419675 2.24628582 3.10726286 2.84826686 2.22002111 2.44848527] and Actual value is [
2.24743, 1.46494, 2.0906599999999997, 1.7393299999999998, 2.21126, 0.98195, 1.6944, 2.371
1900000000004, 2.85737, 1.95335, 1.969609999999999, 2.5332, 2.26646, 2.06367, 1.46181, 1
.58782, 1.95812, 1.851, 2.10017, 0.654289999999999, 1.942959999999998, 2.08528, 2.86712
, 2.61955, 1.44395, 2.2463900000000003, 3.107090000000004, 2.84848, 2.21978, 2.44876]

Mean absolute error:- 0.00022849580979240243
Mean squared error:- 7.046853227703268e-08
Root mean squared error:- 0.00026545909718265955
r2 Score:- 0.9999997578565532

At random state 867 the model performs very well

At random state 867

Training score is

0.9999997149122695

Predicted value is [2.79060449 2.5391929 2.61953357 1.94275203 0.89940876 2.41448667
2.20793355 2.45367029 3.10729755 1.89856619 3.19102224 2.82358647
0.67142971 3.10708992 2.48649738 2.13136197 1.38096373 1.92340321
1.87882725 1.86969175 2.4749349 2.50957003 1.95599838 1.59578579
2.1181469 1.6225436 2.67771676 1.7613713 2.24710606 2.24708119] and Actual value is [
2.79094, 2.5394200000000002, 2.61955, 1.9429599999999998, 0.89991, 2.4148400000000003, 2.
20857, 2.4537299999999997, 3.1070900000000004, 1.89894, 3.1913099999999996, 2.82334, 0.67
108, 3.10712, 2.48676, 2.1309, 1.38079, 1.92313, 1.87877, 1.8698400000000002, 2.474890000
0000003, 2.51011, 1.9563700000000002, 1.59541, 2.11773, 1.62215, 2.67782, 1.76145, 2.2474
3, 2.24729]

Mean absolute error:- 0.0002689208317360673
Mean squared error:- 9.738117516205412e-08
Root mean squared error:- 0.00031205956989340054
r2 Score:- 0.9999997178756446

At random state 868 the model performs very well

At random state 868

Training score is

0.9999996993073769

Predicted value is [1.42787334 1.86966343 3.03484121 1.41716259 2.21119758 1.44417609
2.49197676 2.11002184 2.76617056 2.32309958 2.31986009 2.41449588
0.65445959 1.89856195 2.79881739 1.61622727 1.73798394 1.57035823
2.46513819 2.05105804 2.22002306 2.6761978 1.68426607 2.04400317
1.46179059 2.44843562 2.67777814 1.94938175 2.11556534 1.46505925] and Actual value is [
1.42766, 1.8698400000000002, 3.035, 1.41723, 2.21126, 1.44395, 2.4920400000000003, 2.1103
2, 2.76579, 2.32323, 2.31945, 2.4148400000000003, 0.654289999999999, 1.89894, 2.79832, 1
.615829999999999, 1.7379900000000001, 1.57059, 2.465309999999997, 2.05125, 2.21978, 2.6
7585, 1.68435, 2.0438400000000003, 1.46181, 2.44876, 2.67782, 1.9493900000000002, 2.11569
00000000003, 1.46494]

Mean absolute error:- 0.00020169698142477043
Mean squared error:- 5.835710964968056e-08
Root mean squared error:- 0.0002415721624063513
r2 Score:- 0.999999786600998

At random state 869 the model performs very well

At random state 869

Training score is

0.9999997409608888

Predicted value is [2.67777332 2.04403916 1.76140271 1.24114941 2.51770504 2.59440101
1.8985707 2.24712061 1.63812568 2.85761977 2.37155443 2.12507221
2.49201776 1.94278003 2.32376473 3.10714402 1.86607078 1.57036215
1.97547045 2.44686483 2.13138305 1.57164937 2.4145073 1.59856606
1.69482991 2.24710728 2.02499801 2.4536723 1.95253171 0.89941613] and Actual value is [
2.67782, 2.0438400000000003, 1.76145, 1.24074, 2.51767, 2.5945, 1.89894, 2.24729, 1.63794
, 2.85737, 2.371190000000004, 2.12466, 2.4920400000000003, 1.942959999999998, 2.32407,
3.10712, 1.86565, 1.57059, 1.9757, 2.4464900000000003, 2.1309, 1.5714, 2.4148400000000003
, 1.598879999999999, 1.6944, 2.24743, 2.025179999999998, 2.453729999999997, 1.9521, 0.

89991]

Mean absolute error:- 0.0002556268782916408
Mean squared error:- 8.655544180685947e-08
Root mean squared error:- 0.00029420306219830455
r2 Score:- 0.9999996096591529

At random state 870 the model performs very well

At random state 870

Training score is

0.9999997199340669

Predicted value is [2.8235942 1.92342548 1.93113958 2.24707588 1.88959121 2.18864872 1.95254056 2.44850804 2.04410307 2.50985331 1.73796628 2.63439806 1.96972673 1.46171319 3.05120649 1.75880673 2.22006916 1.95851473 1.68154232 2.47491892 1.85118813 2.00082147 2.48654058 2.85759667 2.86706842 2.11817593 1.24120189 1.38100899 1.57170743 2.79063269] and Actual value is [2.82334, 1.92313, 1.9312900000000002, 2.24743, 1.8893099999999998, 2.18896, 1.9521, 2.44876, 2.0438400000000003, 2.51009, 1.7379900000000001, 2.6343, 1.9699400000000002, 1.46181, 3.05137, 1.75873, 2.21978, 1.95812, 1.68135, 2.4748900000000003, 1.851, 2.00073, 2.48676, 2.85737, 2.86712, 2.11773, 1.24074, 1.38079, 1.5714, 2.79094]

Mean absolute error:- 0.0002311688666881843

Mean squared error:- 6.762328211624455e-08

Root mean squared error:- 0.00026004476944604086

r2 Score:- 0.9999996899166514

At random state 871 the model performs very well

At random state 871

Training score is

0.9999997240845409

Predicted value is [2.46559628 2.26424572 2.4518789 1.85993326 1.95846763 3.19108076 2.7545202 2.24626071 1.7614616 1.62255466 2.53337951 2.49202778 2.32377312 2.23230919 1.95073867 2.09981026 0.89938194 2.3197829 2.43858062 2.24193459 2.2111743 1.73804484 3.60183525 1.83349181 2.50961383 2.37156244 1.68158887 2.82362493 1.46507527 1.7533302] and Actual value is [2.4657, 2.26425, 2.4517599999999997, 1.8604, 1.95812, 3.1913099999999996, 2.75414, 2.246390000000003, 1.76145, 1.62215, 2.5332, 2.4920400000000003, 2.32407, 2.2327, 1.95071, 2.10017, 0.89991, 2.31945, 2.43872, 2.24173, 2.21126, 1.7379900000000001, 3.6021400000000003, 1.83302, 2.51011, 2.3711900000000004, 1.68135, 2.82334, 1.46494, 1.7536]

Mean absolute error:- 0.00024612086217000727

Mean squared error:- 8.452675658344241e-08

Root mean squared error:- 0.00029073485615495505

r2 Score:- 0.9999996836083321

At random state 872 the model performs very well

At random state 872

Training score is

0.9999997017891784

Predicted value is [1.84412016 1.68147471 1.75864156 2.24709033 2.3087319 0.67138767 2.89322684 2.00073087 1.94925229 2.24625012 1.95285299 0.99835361 2.43238385 1.6842508 2.46561945 3.10714386 2.12498825 2.4384669 2.51771149 1.99179781 2.05103916 0.89932512 1.80029143 2.26425213 1.57029694 3.08885978 1.87652166 2.24708909 3.05124121 2.79067689] and Actual value is [1.84408, 1.68135, 1.75873, 2.24729, 2.30919, 0.67108, 2.89319, 2.00073, 1.9493900000000002, 2.2463900000000003, 1.95335, 0.99895, 2.43209, 1.68435, 2.4657, 3.10712, 2.12466, 2.43872, 2.51767, 1.991720000000002, 2.05125, 0.89991, 1.8010099999999998, 2.26425, 1.57059, 3.08854, 1.8763400000000001, 2.24743, 3.05137, 2.79094]

Mean absolute error:- 0.00022897606059835892

Mean squared error:- 8.736176384225833e-08

Root mean squared error:- 0.0002955702350411122

r2 Score:- 0.9999997476229628

At random state 873 the model performs very well

At random state 873

Training score is

0.9999997337969387

Predicted value is [2.5944008 1.9310868 1.64837774 2.835983 1.58829112 1.8642702
1.63811808 1.95845933 1.87968671 1.9427442 1.61621913 2.74279669
1.96941514 2.2471022 3.17762248 2.79066085 2.23774882 1.75871966
1.69474167 2.05105353 1.78525799 1.87657628 2.1156131 0.98174725
1.46509346 2.27413727 1.95292843 1.88521965 2.50959126 2.51769906] and Actual value is [
2.5945, 1.9312900000000002, 1.6488, 2.8360000000000003, 1.58782, 1.86399, 1.63794, 1.9581
2, 1.8799599999999999, 1.9429599999999998, 1.6158299999999999, 2.74255, 1.9696099999999999
9, 2.24743, 3.17728, 2.79094, 2.2374099999999997, 1.75873, 1.6944, 2.05125, 1.78555, 1.87
63400000000001, 2.1156900000000003, 0.98195, 1.46494, 2.27394, 1.95335, 1.8850099999999999
9, 2.51011, 2.51767]

Mean absolute error:- 0.00025015336953918184
Mean squared error:- 7.878885412632552e-08
Root mean squared error:- 0.0002806935234848241
r2 Score:- 0.9999996329946003

At random state 874 the model performs very well

At random state 874

Training score is

0.9999997264337945

Predicted value is [2.70213974 2.61955557 2.30873275 1.95254604 1.6381122 2.50982305
1.57164127 1.86429223 1.94273833 2.51776978 0.99841435 2.75459203
2.12510581 0.89939188 0.67137702 1.73794565 3.03486888 2.18863908
2.23767542 2.46561735 1.78523936 1.97546999 2.32310551 2.04407121
2.44685398 1.41710728 2.1181576 2.24708715 2.22006781 2.09021085] and Actual value is [
2.70201, 2.61955, 2.30919, 1.9521, 1.63794, 2.51009, 1.5714, 1.86399, 1.9429599999999998,
2.51767, 0.99895, 2.75414, 2.12466, 0.89991, 0.67108, 1.7379900000000001, 3.035, 2.18896,
2.2374099999999997, 2.4657, 1.78555, 1.9757, 2.32323, 2.0438400000000003, 2.446490000000000
003, 1.41723, 2.11773, 2.24729, 2.21978, 2.0906599999999997]

Mean absolute error:- 0.00027287538483943273
Mean squared error:- 9.516735208060518e-08
Root mean squared error:- 0.0003084920616168351
r2 Score:- 0.999999668331978

At random state 875 the model performs very well

At random state 875

Training score is

0.9999997322837735

Predicted value is [1.96937401 3.08882484 1.88953059 1.89855207 1.9754373 2.24629606
2.44223241 2.32377716 2.50957503 2.18864147 2.27409121 1.41716998
1.93109398 1.68426125 1.75330872 1.87965845 1.95848863 2.02497255
2.31975273 2.46555091 2.20144797 3.60182839 2.82360729 2.24188211
1.63323011 2.13137606 1.96968778 2.04404729 1.85112263 2.67774072] and Actual value is [
1.9696099999999999, 3.08854, 1.8893099999999998, 1.89894, 1.9757, 2.2463900000000003, 2.4
4191, 2.32407, 2.51011, 2.18896, 2.27394, 1.41723, 1.9312900000000002, 1.68435, 1.7536, 1
.8799599999999999, 1.95812, 2.0251799999999998, 2.31945, 2.4657, 2.20173, 3.6021400000000
003, 2.82334, 2.24173, 1.6332799999999998, 2.1309, 1.9699400000000002, 2.0438400000000003
, 1.851, 2.67782]

Mean absolute error:- 0.00024239683628975625
Mean squared error:- 7.202573567915368e-08
Root mean squared error:- 0.0002683761086221232
r2 Score:- 0.9999996263399006

At random state 876 the model performs very well

At random state 876

Training score is

0.9999997447212712

Predicted value is [1.86613411 1.99172229 2.48667256 1.2413345 0.65467705 2.06402287
1.78526712 1.63810392 2.12505469 2.20146595 1.79317712 1.95596388
1.5883529 2.61952377 1.21376083 1.83354093 2.08481181 1.86000716
2.86692987 2.13142071 1.44421931 2.46554486 1.38102575 2.50990306
1.46179249 2.27409472 1.75880575 1.73843106 1.88965708 2.74277404] and Actual value is [
1.86565, 1.9917200000000002, 2.48676, 1.24074, 0.6542899999999999, 2.06367, 1.78555, 1.63
794, 2.12466, 2.20173, 1.79293, 1.9563700000000002, 1.58782, 2.61955, 1.21305, 1.83302, 2
.08528, 1.8604, 2.86712, 2.1309, 1.44395, 2.4657, 1.38079, 2.51009, 1.46181, 2.27394, 1.7
5873, 1.73797, 1.8893099999999998, 2.74255]

Mean absolute error:- 0.0003052372452254907
Mean squared error:- 1.256881884600729e-07
Root mean squared error:- 0.00035452530016921626
r2 Score:- 0.9999994585742736

At random state 877 the model performs very well
At random state 877
Training score is
0.9999997436773072
Predicted value is [2.26425027 1.61621816 1.62259979 1.73837302 2.45359165 2.79885665
1.88956844 1.8642473 1.95073646 1.79319093 2.0248767 2.06394343
2.32306096 1.38101896 2.37156884 3.05130502 2.59437611 1.8850076
2.32382873 2.79076047 2.24631618 2.46516191 2.51760632 3.26043614
2.50959654 2.30869916 1.87969408 2.26648516 1.99174451 1.21365946] and Actual value is [
2.26425, 1.6158299999999999, 1.62215, 1.73797, 2.4537299999999997, 2.79832, 1.889309999999
99998, 1.86399, 1.95071, 1.79293, 2.025, 2.06367, 2.32323, 1.38079, 2.3711900000000004, 3
.05137, 2.5945, 1.885409999999998, 2.32407, 2.79094, 2.2463900000000003, 2.46530999999999
997, 2.51767, 3.26001, 2.51011, 2.30919, 1.879959999999999, 2.26646, 1.9917200000000002,
1.21305]

Mean absolute error:- 0.0002515365278723684
Mean squared error:- 9.239057599405116e-08
Root mean squared error:- 0.0003039581813244236
r2 Score:- 0.9999995656272813

At random state 878 the model performs very well
At random state 878
Training score is
0.9999997376378358
Predicted value is [1.92342497 1.9525285 2.79876304 2.20793995 2.13137933 1.71931869
0.67143518 1.62258414 2.37158889 1.68430741 2.32311422 2.11000338
1.95077784 2.8932856 2.47501748 1.46508354 2.45189959 3.034851
2.2471627 2.53921357 2.43245144 2.5177189 2.82366202 2.23769583
1.86431364 1.34736243 1.94276867 2.7661579 2.32377673 1.5882825] and Actual value is [
1.92313, 1.9521, 2.79832, 2.20857, 2.1309, 1.719559999999998, 0.67108, 1.62215, 2.371190
0000000004, 1.68435, 2.32323, 2.11032, 1.95071, 2.89319, 2.4748900000000003, 1.46494, 2.4
517599999999997, 3.035, 2.24729, 2.5394200000000002, 2.43209, 2.51767, 2.82334, 2.2374099
999999997, 1.86399, 1.34759, 1.94295999999998, 2.76579, 2.32407, 1.58782]

Mean absolute error:- 0.00027071882030360594
Mean squared error:- 9.463276204607934e-08
Root mean squared error:- 0.0003076243846740361
r2 Score:- 0.999999637659102

At random state 879 the model performs very well
At random state 879
Training score is
0.9999997428615262
Predicted value is [1.76149382 2.00073557 2.4535913 2.31984816 2.23232354 2.44844006
2.26427727 1.83342752 1.63815287 1.85992211 2.24712705 1.89853505
1.87962733 2.46519102 1.59564266 0.89937552 2.32307883 2.21999597
2.45192056 2.08473645 1.73832091 1.44414257 1.61618984 2.47499545
2.83593073 1.75866092 2.12371766 1.95072868 2.70220238 2.53342094] and Actual value is [
1.76145, 2.00073, 2.453729999999997, 2.31945, 2.2327, 2.44876, 2.26425, 1.83302, 1.63794
, 1.8604, 2.24743, 1.89894, 1.879959999999999, 2.465309999999997, 1.59541, 0.89991, 2.3
2323, 2.21978, 2.451759999999997, 2.08528, 1.73797, 1.44395, 1.615829999999999, 2.47489
0000000003, 2.836000000000003, 1.75873, 2.12367, 1.95071, 2.70201, 2.5332]

Mean absolute error:- 0.0002344308645517638
Mean squared error:- 7.914202043041257e-08
Root mean squared error:- 0.0002813219160151099
r2 Score:- 0.9999995317951179

At random state 880 the model performs very well
At random state 880
Training score is
0.9999997235599376
Predicted value is [1.87663901 2.2377509 2.53924039 2.61958274 2.59439719 2.12506924

2.79071062 2.5095815 2.02500902 1.26503725 2.22004376 2.46556749
1.87879611 2.26424213 1.57037682 2.76609963 3.19113484 1.94272903
2.43250126 1.24124101 0.65456487 2.24632849 1.95072298 2.51765148
2.27415128 2.85761806 2.13144412 1.73839247 2.30869454 1.99174601] and Actual value is [
1.8763400000000001, 2.2374099999999997, 2.5394200000000002, 2.61955, 2.5945, 2.12466, 2.7
9094, 2.51011, 2.0251799999999998, 1.26462, 2.21978, 2.4657, 1.87877, 2.26425, 1.57059, 2
.76579, 3.1913099999999996, 1.9429599999999998, 2.43209, 1.24074, 0.6542899999999999, 2.2
46390000000003, 1.95071, 2.51767, 2.27394, 2.85737, 2.1309, 1.73797, 2.30919, 1.99172000
00000002]

Mean absolute error:- 0.00024323894291284527
Mean squared error:- 8.641184843979893e-08
Root mean squared error:- 0.00029395892304844045
r2 Score:- 0.999999678866298

At random state 881 the model performs very well

At random state 881

Training score is

0.9999997395108468

Predicted value is [1.58825602 2.82364273 2.79070397 1.26498269 1.88498791 1.99182629
2.23770557 1.97543224 2.09023267 2.50956452 2.24624858 2.46512721
2.11360355 2.26420519 1.71920278 1.34729536 0.8994041 1.95250335
1.94271129 1.59581932 1.68431059 1.61619259 3.05119048 2.31972276
2.51748841 2.46555509 2.43851348 1.88956335 1.63334005 2.12374274] and Actual value is [
1.58782, 2.82334, 2.79094, 1.26462, 1.8854099999999998, 1.9917200000000002, 2.23740999999
9997, 1.9757, 2.0906599999999997, 2.51011, 2.2463900000000003, 2.4653099999999997, 2.113
99000000000003, 2.26425, 1.7195599999999998, 1.34759, 0.89991, 1.9521, 1.9429599999999998,
1.59541, 1.68435, 1.6158299999999999, 3.05137, 2.31945, 2.517379999999997, 2.4657, 2.438
72, 1.8893099999999998, 1.6332799999999998, 2.12367]

Mean absolute error:- 0.00026922862966711016
Mean squared error:- 9.17676499985672e-08
Root mean squared error:- 0.00030293175798943103
r2 Score:- 0.9999995963706141

At random state 882 the model performs very well

At random state 882

Training score is

0.9999996992833535

Predicted value is [1.63814152 1.68433909 1.68157068 1.34740333 1.75872967 2.24710239
2.27413529 1.4279239 2.32135342 1.86614289 2.26422045 1.99178042
2.61953588 2.13139557 2.50993617 1.75340744 1.44422714 1.21364558
1.87969968 3.17763851 1.73800282 3.26046356 2.09977893 1.38100364
3.03486639 1.95600146 2.49201283 1.92340643 0.67146313 2.67617268] and Actual value is [
1.63794, 1.68435, 1.68135, 1.34759, 1.75873, 2.24743, 2.27394, 1.42766, 2.321420000000000
3, 1.86565, 2.26425, 1.9917200000000002, 2.61955, 2.1309, 2.51009, 1.7536, 1.44395, 1.213
05, 1.8799599999999999, 3.17728, 1.7379900000000001, 3.26001, 2.10017, 1.38079, 3.035, 1.
9563700000000002, 2.4920400000000003, 1.92313, 0.67108, 2.67585]

Mean absolute error:- 0.0002328876502756927
Mean squared error:- 8.039386951522326e-08
Root mean squared error:- 0.0002835381270926774
r2 Score:- 0.9999997614070812

At random state 883 the model performs very well

At random state 883

Training score is

0.9999997368921303

Predicted value is [2.79887681 1.83344211 1.78527908 2.23778636 2.44227942 2.51756837
2.02488159 1.89855682 2.67622997 2.79075007 2.45363443 2.59442221
1.9694289 1.75871131 1.86973291 3.08891714 2.32136743 2.70221292
2.37162774 3.26055044 1.92336303 0.99838666 1.63812138 2.11818175
1.79317201 2.49211498 1.94274082 2.22002383 2.44687632 2.50995663] and Actual value is [
2.79832, 1.83302, 1.78555, 2.2374099999999997, 2.44191, 2.5173799999999997, 2.025, 1.8989
4, 2.67585, 2.79094, 2.4537299999999997, 2.5945, 1.9696099999999999, 1.75873, 1.869840000
0000002, 3.08854, 2.3214200000000003, 2.70201, 2.3711900000000004, 3.26001, 1.92313, 0.99
895, 1.63794, 2.11773, 1.79293, 2.4920400000000003, 1.9429599999999998, 2.21978, 2.446490
0000000003, 2.51009]

Mean absolute error:- 0.00026919069709944917
Mean squared error:- 9.645053534247317e-08
Root mean squared error:- 0.0003105648649517089
r2 Score:- 0.9999995583495881

At random state 884 the model performs very well
At random state 884
Training score is
0.999999695663934
Predicted value is [3.17758103 2.11004564 1.63813605 1.73926118 0.65450456 2.48649047
2.63441423 1.83341464 1.87885112 1.99189171 2.6777361 1.95847167
1.73801965 2.43853117 2.09019575 3.10711345 3.08881454 2.27406687
2.21122094 1.5958378 2.46559605 2.59439353 3.19102719 1.95260254
2.20790106 2.53921775 1.59856938 1.34731588 1.85115027 2.45373048] and Actual value is [
3.17728, 2.11032, 1.63794, 1.7393299999999998, 0.6542899999999999, 2.48676, 2.6343, 1.833
02, 1.87877, 1.9917200000000002, 2.67782, 1.95812, 1.7379900000000001, 2.43872, 2.0906599
999999997, 3.10712, 3.08854, 2.27394, 2.21126, 1.59541, 2.4657, 2.5945, 3.1913099999999999
6, 1.9521, 2.20857, 2.5394200000000002, 1.5988799999999999, 1.34759, 1.851, 2.45372999999
9997]

Mean absolute error:- 0.000222720073420087
Mean squared error:- 7.42894572742015e-08
Root mean squared error:- 0.0002725609239678379
r2 Score:- 0.9999997687502752

At random state 885 the model performs very well
At random state 885
Training score is
0.9999997048176328
Predicted value is [1.95297268 1.71923676 2.48649436 3.26044611 2.06388014 2.11812755
1.59581106 1.73927809 2.51772889 1.64833445 1.75876602 1.78521639
1.96969205 1.63328376 2.807393 1.26499154 3.60186335 2.09023828
1.63806799 2.11359085 2.63439785 3.10711012 2.44218638 0.67139374
2.76610967 2.24710395 2.26643362 2.50982627 1.92340919 1.97543208] and Actual value is [
1.95335, 1.7195599999999998, 2.48676, 3.26001, 2.06367, 2.11773, 1.59541, 1.7393299999999
998, 2.51767, 1.6488, 1.75873, 1.78555, 1.9699400000000002, 1.6332799999999998, 2.8079099
999999997, 1.26462, 3.6021400000000003, 2.090659999999997, 1.63794, 2.1139900000000003,
2.6343, 3.10712, 2.44191, 0.67108, 2.76579, 2.24729, 2.26646, 2.51009, 1.92313, 1.9757]

Mean absolute error:- 0.0002587876234973437
Mean squared error:- 8.814545219136622e-08
Root mean squared error:- 0.00029689299788200835
r2 Score:- 0.9999997517954313

At random state 886 the model performs very well
At random state 886
Training score is
0.9999997214727616
Predicted value is [1.99177649 1.68157932 2.23229088 2.13134436 1.85994646 1.75869082
0.65450067 1.7931343 1.34727334 1.87658239 2.18861111 0.99845891
2.59435845 2.24711008 3.191099 1.94270676 2.04400456 1.95071995
2.44215642 1.95593137 2.50955928 2.08474071 1.46506078 3.03483957
2.89318632 2.49202145 2.82362372 2.21119319 2.02490453 2.41447441] and Actual value is [
1.991720000000002, 1.68135, 2.2327, 2.1309, 1.8604, 1.75873, 0.6542899999999999, 1.79293
, 1.34759, 1.8763400000000001, 2.18896, 0.99895, 2.5945, 2.24743, 3.191309999999996, 1.9
429599999999998, 2.0438400000000003, 1.95071, 2.44191, 1.9563700000000002, 2.51011, 2.085
28, 1.46494, 3.035, 2.89319, 2.492040000000003, 2.82334, 2.21126, 2.025179999999998, 2.
414840000000003]

Mean absolute error:- 0.0002538765515738654
Mean squared error:- 8.921759522328999e-08
Root mean squared error:- 0.0002986931455914079
r2 Score:- 0.9999996997140801

At random state 887 the model performs very well
At random state 887
Training score is
0.9999996841677774

Predicted value is [3.08887383 2.45189364 1.86434886 1.58829394 1.68432981 2.48657792
2.02487478 1.83333089 1.26502712 1.87876473 1.76144518 2.2112503
3.10724946 2.000793 2.10998164 2.32311514 1.80043267 2.47495007
3.26044181 2.80737389 2.04401693 1.88959194 3.60181068 2.22004516
0.98177309 2.24180259 0.67147228 2.05100919 2.43853594 2.59439702] and Actual value is [
3.08854, 2.4517599999999997, 1.86399, 1.58782, 1.68435, 2.48676, 2.025, 1.83302, 1.26462,
1.87877, 1.76145, 2.21126, 3.1070900000000004, 2.00073, 2.11032, 2.32323, 1.801009999999999
998, 2.4748900000000003, 3.26001, 2.807909999999997, 2.0438400000000003, 1.889309999999999
998, 3.6021400000000003, 2.21978, 0.98195, 2.24173, 0.67108, 2.05125, 2.43872, 2.5945]

Mean absolute error:- 0.000228983960615603

Mean squared error:- 7.816088930923202e-08

Root mean squared error:- 0.00027957269056406786

r2 Score:- 0.9999998001298898

At random state 888 the model performs very well

At random state 888

Training score is

0.9999996914602767

Predicted value is [2.00078857 2.02487191 1.46504383 1.95844254 2.80737669 2.27412156
1.866065 0.89942468 1.85105828 1.75329577 1.97545329 1.7379288

3.26044973 2.48670653 2.23229887 3.05127628 2.18862706 2.83596257

2.3197463 2.11554483 2.1134869 0.98163976 2.41449049 2.79884689

1.24118771 1.68155978 3.10728277 3.60182391 2.24709612 3.03484388] and Actual value is [
2.00073, 2.025, 1.46494, 1.95812, 2.807909999999997, 2.27394, 1.86565, 0.89991, 1.851, 1
.7536, 1.9757, 1.7379900000000001, 3.26001, 2.48676, 2.2327, 3.05137, 2.18896, 2.83600000
00000003, 2.31945, 2.1156900000000003, 2.1139900000000003, 0.98195, 2.4148400000000003, 2
.79832, 1.24074, 1.68135, 3.107090000000004, 3.602140000000003, 2.24743, 3.035]

Mean absolute error:- 0.0002681550395272958

Mean squared error:- 9.579722249261692e-08

Root mean squared error:- 0.00030951126391880624

r2 Score:- 0.9999997674417973

At random state 889 the model performs very well

At random state 889

Training score is

0.9999997464872499

Predicted value is [2.79068515 2.32310319 2.27543079 2.50986926 1.73834499 2.5944167
1.95596836 2.247158 2.86706275 2.02486474 2.00082219 2.43249282

1.59858131 3.10715209 3.26052075 2.13143109 2.3197643 2.51769215

1.8853028 1.88499953 1.41713476 1.95299142 2.75457413 2.8576519

2.06387784 2.32136196 2.45191358 2.37162887 2.30870729 1.86609479] and Actual value is [
2.79094, 2.32323, 2.27513, 2.51009, 1.73797, 2.5945, 1.956370000000002, 2.24743, 2.86712
, 2.025, 2.00073, 2.43209, 1.598879999999999, 3.10712, 3.26001, 2.1309, 2.31945, 2.51767
, 1.885009999999999, 1.885409999999998, 1.41723, 1.95335, 2.75414, 2.85737, 2.06367, 2.
321420000000003, 2.451759999999997, 2.371190000000004, 2.30919, 1.86565]

Mean absolute error:- 0.0002696892894415474

Mean squared error:- 9.604289048564467e-08

Root mean squared error:- 0.0003099078741910968

r2 Score:- 0.999999474951888

At random state 890 the model performs very well

At random state 890

Training score is

0.999999752186789

Predicted value is [1.85995613 1.57033192 1.61619126 1.62256442 1.24115307 1.95845466
2.08475949 1.86431423 1.57165011 2.67619004 2.0249915 2.31984238

0.99842682 1.88524112 1.79313881 2.80742105 2.83595255 1.95247001

1.68150261 1.94272862 2.02486263 2.05106485 2.26649842 1.73928339

2.50963534 1.78528307 1.63319615 2.11813835 0.8994042 1.96941417] and Actual value is [
1.8604, 1.57059, 1.615829999999999, 1.62215, 1.24074, 1.95812, 2.08528, 1.86399, 1.5714,
2.67585, 2.025179999999998, 2.31945, 0.99895, 1.885009999999999, 1.79293, 2.80790999999
9997, 2.836000000000003, 1.9521, 1.68135, 1.942959999999998, 2.025, 2.05125, 2.26646,
1.739329999999998, 2.51011, 1.78555, 1.633279999999998, 2.11773, 0.89991, 1.96960999999
9999]

Mean absolute error:- 0.0002945872209377328

Mean squared error:- 1.079785265115642e-07
Root mean squared error:- 0.00032860086200672725
r2 Score:- 0.9999994531771021

At random state 891 the model performs very well
At random state 891
Training score is
0.999999720386519
Predicted value is [1.73925516 2.84824364 2.24710173 2.27407967 3.08880902 3.10711827
2.50986569 1.94930379 2.20150913 2.76610974 1.42785618 2.32303856
2.02494665 2.18863778 2.5175178 2.24183512 2.23774645 2.31971123
1.95295693 2.30869892 1.76136399 1.63324316 2.86705827 2.61957023
1.64833751 1.59576819 2.0440598 1.9310745 1.88495656 1.86970574] and Actual value is [
1.7393299999999998, 2.84848, 2.24743, 2.27394, 3.08854, 3.10712, 2.51009, 1.949390000000000
002, 2.20173, 2.76579, 1.42766, 2.32323, 2.0251799999999998, 2.18896, 2.5173799999999997,
2.24173, 2.2374099999999997, 2.31945, 1.95335, 2.30919, 1.76145, 1.6332799999999998, 2.86
712, 2.61955, 1.6488, 1.59541, 2.0438400000000003, 1.9312900000000002, 1.8854099999999998
, 1.8698400000000002]
Mean absolute error:- 0.00022058179534310737
Mean squared error:- 6.613313713614728e-08
Root mean squared error:- 0.00025716363882972895
r2 Score:- 0.9999996502802215

At random state 892 the model performs very well
At random state 892
Training score is
0.9999997606593113
Predicted value is [2.45183044 2.24179546 2.11353174 2.50956811 1.63810609 2.09024961
2.09974318 1.73829244 2.43849462 2.24625788 2.24709101 2.05106713
2.23232344 1.68428504 1.73797358 1.73925942 1.88520524 2.53916528
1.44418239 2.06383845 1.68153545 2.21120353 2.24707607 1.59893979
2.30869843 1.86607333 1.96969289 3.6017661 1.88499094 2.20791881] and Actual value is [
2.4517599999999997, 2.24173, 2.1139900000000003, 2.51011, 1.63794, 2.0906599999999997, 2.
10017, 1.73797, 2.43872, 2.2463900000000003, 2.24729, 2.05125, 2.2327, 1.68435, 1.7379900
00000001, 1.7393299999999998, 1.8850099999999999, 2.5394200000000002, 1.44395, 2.06367,
1.68135, 2.21126, 2.24743, 1.59927, 2.30919, 1.86565, 1.9699400000000002, 3.6021400000000
003, 1.8854099999999998, 2.20857]
Mean absolute error:- 0.000270423044114132
Mean squared error:- 9.887459595962897e-08
Root mean squared error:- 0.00031444331120192233
r2 Score:- 0.9999993856061816

At random state 893 the model performs very well
At random state 893
Training score is
0.999999719699402
Predicted value is [1.46184338 1.75336655 2.30874341 3.60181887 1.24118101 3.26042442
2.89323216 2.09976839 1.73928314 2.79875607 3.10707081 1.8441231
2.08475081 1.88523855 3.03481964 1.88959149 2.27410501 2.20791422
2.2471439 1.76147477 2.24179447 3.19109316 1.73799509 2.00078657
1.86610547 2.27544792 1.96944188 2.44843074 2.23230778 2.12503761] and Actual value is [
1.46181, 1.7536, 2.30919, 3.602140000000003, 1.24074, 3.26001, 2.89319, 2.10017, 1.73932
9999999998, 2.79832, 3.10712, 1.84408, 2.08528, 1.8850099999999999, 3.035, 1.88930999999
9998, 2.27394, 2.20857, 2.24729, 1.76145, 2.24173, 3.191309999999996, 1.737990000000000
1, 2.00073, 1.86565, 2.27513, 1.9696099999999999, 2.44876, 2.2327, 2.12466]
Mean absolute error:- 0.0002501258620091873
Mean squared error:- 9.344682909752546e-08
Root mean squared error:- 0.0003056907409417653
r2 Score:- 0.9999996977625396

At random state 894 the model performs very well
At random state 894
Training score is
0.99999970395132
Predicted value is [2.86705736 1.94274046 2.47499081 2.67616756 1.84411149 2.82364809

2.63444733 2.04403905 0.65440388 1.59575966 2.53923309 2.11355347
2.41451335 2.12374082 2.7546107 2.09025865 2.49202484 2.44685908
1.57034288 1.7379422 2.2741184 0.98167169 1.85109443 2.275491
1.41714448 2.24712185 2.24629276 2.59442005 0.89936164 1.6483135] and Actual value is [
2.86712, 1.9429599999999998, 2.4748900000000003, 2.67585, 1.84408, 2.82334, 2.6343, 2.043
84000000000003, 0.6542899999999999, 1.59541, 2.5394200000000002, 2.1139900000000003, 2.414
84000000000003, 2.12367, 2.75414, 2.090659999999997, 2.4920400000000003, 2.446490000000000
03, 1.57059, 1.7379900000000001, 2.27394, 0.98195, 1.851, 2.27513, 1.41723, 2.24743, 2.24
63900000000003, 2.5945, 0.89991, 1.6488]

Mean absolute error:- 0.0002313349139856406

Mean squared error:- 7.597626776740672e-08

Root mean squared error:- 0.00027563792875329537

r2 Score:- 0.999997592262998

At random state 895 the model performs very well

At random state 895

Training score is

0.999997655418864

Predicted value is [1.94266424 2.41454879 2.10986653 2.24709568 2.82370422 1.95595839
2.8577099 1.88965821 3.17768428 2.22007328 2.05106934 2.31982548
2.23235735 2.09975484 1.21367739 1.86619336 1.61634634 1.26513328
2.30876275 2.32312938 1.6815905 1.73799722 2.12383618 2.86689634
1.96966361 2.12506777 1.86963379 2.09035793 1.38092669 2.3715011] and Actual value is [
1.942959999999998, 2.4148400000000003, 2.11032, 2.24743, 2.82334, 1.9563700000000002, 2.
85737, 1.889309999999998, 3.17728, 2.21978, 2.05125, 2.31945, 2.2327, 2.10017, 1.21305,
1.86565, 1.6158299999999999, 1.26462, 2.30919, 2.32323, 1.68135, 1.7379900000000001, 2.12
367, 2.86712, 1.9699400000000002, 2.12466, 1.8698400000000002, 2.090659999999997, 1.3807
9, 2.3711900000000004]

Mean absolute error:- 0.00032854166086053737

Mean squared error:- 1.2601387630853657e-07

Root mean squared error:- 0.00035498433248319086

r2 Score:- 0.9999993671836241

At random state 896 the model performs very well

At random state 896

Training score is

0.99999721894256

Predicted value is [2.76613897 1.58827584 1.61620025 2.21125745 1.87968145 1.79316071
2.82367119 1.68156015 0.89938654 1.59896309 2.0008072 2.26427244
1.7533701 1.86426813 2.61959844 2.75454141 2.49208661 3.10713979
2.11815057 1.95295329 2.5096295 3.03488067 0.98174027 1.95846745
1.63813049 2.53343066 2.59440808 1.87661975 2.23776165 1.88527206] and Actual value is [
2.76579, 1.58782, 1.6158299999999999, 2.21126, 1.8799599999999999, 1.79293, 2.82334, 1.68
135, 0.89991, 1.59927, 2.00073, 2.26425, 1.7536, 1.86399, 2.61955, 2.75414, 2.49204000000
00003, 3.10712, 2.11773, 1.95335, 2.51011, 3.035, 0.98195, 1.95812, 1.63794, 2.5332, 2.59
45, 1.8763400000000001, 2.237409999999997, 1.8850099999999999]

Mean absolute error:- 0.00025210985100974453

Mean squared error:- 8.449514639602712e-08

Root mean squared error:- 0.00029068048850245716

r2 Score:- 0.9999997072265407

At random state 897 the model performs very well

At random state 897

Training score is

0.999997432590841

Predicted value is [2.83598122 2.24709315 2.11555726 1.42784176 2.44687636 2.44842649
2.67778558 2.74276718 2.20799361 3.19114642 2.2463183 2.24712812
1.73834449 1.96965675 2.13140195 1.57035465 1.95593839 1.76141808
2.63443699 2.80736604 1.95072094 1.86609914 1.97543814 1.83341833
2.76611556 1.57167067 2.18863636 1.84414503 1.46505922 1.34733358] and Actual value is [
2.8360000000000003, 2.24743, 2.1156900000000003, 1.42766, 2.4464900000000003, 2.44876, 2.
67782, 2.74255, 2.20857, 3.191309999999996, 2.2463900000000003, 2.24729, 1.73797, 1.9699
400000000002, 2.1309, 1.57059, 1.9563700000000002, 1.76145, 2.6343, 2.807909999999997, 1.
.95071, 1.86565, 1.9757, 1.83302, 2.76579, 1.5714, 2.18896, 1.84408, 1.46494, 1.34759]

Mean absolute error:- 0.000254514730579151

Mean squared error:- 8.968996301711976e-08
Root mean squared error:- 0.0002994828259134733
r2 Score:- 0.9999995848641807

At random state 898 the model performs very well
At random state 898
Training score is
0.9999997322456924

Predicted value is [1.96964073 1.95290576 1.68156473 2.49198147 1.80034412 2.0248804
1.21361936 3.10722254 1.57030692 2.45181141 3.60181007 2.67769144
2.02480145 2.43240942 2.84822586 1.59856875 1.95848633 2.46509138
1.75869612 2.27398895 2.83591174 2.50951618 1.71919815 1.83352113
2.0638816 0.99839912 1.86966314 2.20149318 2.48659674 2.41444501] and Actual value is [
1.9699400000000002, 1.95335, 1.68135, 2.4920400000000003, 1.8010099999999998, 2.025179999
9999998, 1.21305, 3.1070900000000004, 1.57059, 2.4517599999999997, 3.6021400000000003, 2.
67782, 2.025, 2.43209, 2.84848, 1.5988799999999999, 1.95812, 2.4653099999999997, 1.75873,
2.27394, 2.8360000000000003, 2.51011, 1.7195599999999998, 1.83302, 2.06367, 0.99895, 1.86
98400000000002, 2.20173, 2.48676, 2.4148400000000003]

Mean absolute error:- 0.0002835910582978237
Mean squared error:- 1.0895684173546027e-07
Root mean squared error:- 0.0003300861126061808
r2 Score:- 0.9999996295588195

At random state 899 the model performs very well
At random state 899
Training score is
0.9999997433638032

Predicted value is [2.26644913 2.61948421 1.95251293 2.74279251 1.58827493 1.75875703
2.45183986 2.50960711 2.46555148 2.51769446 2.24187575 1.88963317
1.83349077 1.8766254 2.85761003 2.22004459 2.12374343 2.11353773
2.18863854 2.08477795 2.45367117 2.26419003 2.44846589 1.21364009
2.27546784 3.05122468 3.03483847 2.05116618 1.92342316 1.38097495] and Actual value is [
2.26646, 2.61955, 1.9521, 2.74255, 1.58782, 1.75873, 2.4517599999999997, 2.51011, 2.4657,
2.51767, 2.24173, 1.8893099999999998, 1.83302, 1.8763400000000001, 2.85737, 2.21978, 2.12
367, 2.1139900000000003, 2.18896, 2.08528, 2.4537299999999997, 2.26425, 2.44876, 1.21305,
2.27513, 3.05137, 3.035, 2.05125, 1.92313, 1.38079]

Mean absolute error:- 0.00024194532511108148
Mean squared error:- 8.584680998742601e-08
Root mean squared error:- 0.000292996262753343
r2 Score:- 0.9999995343094124

At random state 900 the model performs very well
At random state 900
Training score is
0.999999732798369

Predicted value is [2.264225 1.41714509 1.68152074 2.00077884 1.79312321 1.94935785
2.41451047 3.26044422 1.95070713 1.84413278 2.32378113 1.89856095
2.67776881 1.44417842 2.47495375 2.30869504 2.22002119 1.638102
2.59438072 2.6761625 2.80736218 1.63319691 1.87874513 2.24631606
1.86608659 2.26646201 2.23234065 2.46515037 1.71929042 2.2470958] and Actual value is [
2.26425, 1.41723, 1.68135, 2.00073, 1.79293, 1.9493900000000002, 2.4148400000000003, 3.26
001, 1.95071, 1.84408, 2.32407, 1.89894, 2.67782, 1.44395, 2.4748900000000003, 2.30919, 2
.21978, 1.63794, 2.5945, 2.67585, 2.8079099999999997, 1.6332799999999998, 1.87877, 2.2463
900000000003, 1.86565, 2.26646, 2.2327, 2.4653099999999997, 1.7195599999999998, 2.24743]

Mean absolute error:- 0.00020021842534811984
Mean squared error:- 6.492109562894099e-08
Root mean squared error:- 0.00025479618448662254
r2 Score:- 0.9999996334072524

At random state 901 the model performs very well
At random state 901
Training score is
0.9999997418845852

Predicted value is [2.53338814 2.6761936 1.71921587 0.99838163 2.30870372 2.43854288
1.85110364 3.10726672 2.24628904 1.94928805 2.0007506 2.23775232

2.79882408 2.23238173 2.05112558 2.11554399 1.78525018 2.08475916
2.22001073 2.43246716 2.32134395 2.4655718 1.99175099 1.42786067
2.13138655 2.50958133 1.68429691 2.84828442 1.44418043 3.08884634] and Actual value is [
2.5332, 2.67585, 1.7195999999999998, 0.99895, 2.30919, 2.43872, 1.851, 3.1070900000000004
, 2.2463900000000003, 1.9493900000000002, 2.00073, 2.2374099999999997, 2.79832, 2.2327, 2
.05125, 2.1156900000000003, 1.78555, 2.08528, 2.21978, 2.43209, 2.3214200000000003, 2.465
7, 1.9917200000000002, 1.42766, 2.1309, 2.51011, 1.68435, 2.84848, 1.44395, 3.08854]

Mean absolute error:- 0.0002570578710261969

Mean squared error:- 9.198202035062028e-08

Root mean squared error:- 0.00030328537773954795

r2 Score:- 0.9999995837033809

At random state 902 the model performs very well

At random state 902

Training score is

0.9999997350941682

Predicted value is [1.93108429 2.43849494 2.26425082 2.12503533 1.96936434 2.5098682

2.11812582 2.44680571 2.08474474 2.44853566 1.95249098 2.51774978

2.83598239 1.59892831 1.97546941 2.06391784 3.17767631 1.94270065

0.99832346 1.86429749 0.89934469 2.05106531 2.23771793 1.95846029

2.86710176 1.46158538 2.47492399 2.24706708 1.68146183 1.76140656] and Actual value is [
1.9312900000000002, 2.43872, 2.26425, 2.12466, 1.969609999999999, 2.51009, 2.11773, 2.44

64900000000003, 2.08528, 2.44876, 1.9521, 2.51767, 2.8360000000000003, 1.59927, 1.9757, 2
.06367, 3.17728, 1.9429599999999998, 0.99895, 1.86399, 0.89991, 2.05125, 2.237409999999999
97, 1.95812, 2.86712, 1.46181, 2.4748900000000003, 2.24729, 1.68135, 1.76145]

Mean absolute error:- 0.000256564599684872

Mean squared error:- 9.0640185126728e-08

Root mean squared error:- 0.0003010650845360983

r2 Score:- 0.9999996107683167

At random state 903 the model performs very well

At random state 903

Training score is

0.999999731653947

Predicted value is [2.24704647 2.02489005 2.7907819 2.06398528 2.12508684 1.95069464

2.4749407 2.50957209 3.26045506 1.94930595 2.11356349 2.85763707

1.69480849 1.8335052 2.00076159 2.51744698 1.84418754 2.2112167

0.99840643 1.34728341 1.64834893 1.46162648 1.61617436 2.46509502

1.86605565 1.68428786 2.45367451 1.73930544 2.11551078 3.03490756] and Actual value is [
2.24743, 2.025, 2.79094, 2.06367, 2.12466, 1.95071, 2.4748900000000003, 2.51011, 3.26001,
1.9493900000000002, 2.1139900000000003, 2.85737, 1.6944, 1.83302, 2.00073, 2.517379999999
997, 1.84408, 2.21126, 0.99895, 1.34759, 1.6488, 1.46181, 1.615829999999999, 2.46530999
9999997, 1.86565, 1.68435, 2.453729999999997, 1.739329999999998, 2.1156900000000003, 3
.035]

Mean absolute error:- 0.00024090169886784214

Mean squared error:- 8.805593269342025e-08

Root mean squared error:- 0.000296742199043918

r2 Score:- 0.9999996426181553

At random state 904 the model performs very well

At random state 904

Training score is

0.9999997292898086

Predicted value is [1.86000701 1.95293352 2.61953356 2.20149126 1.57033218 3.19108909

3.60181512 1.94274112 2.21998965 1.93109253 1.57163599 2.53340638

2.44219198 2.08474298 2.27409259 2.86705325 1.38098044 1.84413561

1.78527363 1.92338103 2.2471074 1.79315288 1.61621804 2.27542347

2.82363637 2.0510782 2.00077126 2.3715641 1.95843726 2.23235899] and Actual value is [
1.8604, 1.95335, 2.61955, 2.20173, 1.57059, 3.191309999999996, 3.602140000000003, 1.942
9599999999998, 2.21978, 1.931290000000002, 1.5714, 2.5332, 2.44191, 2.08528, 2.27394, 2.
86712, 1.38079, 1.84408, 1.78555, 1.92313, 2.24743, 1.79293, 1.615829999999999, 2.27513,
2.82334, 2.05125, 2.00073, 2.371190000000004, 1.95812, 2.2327]

Mean absolute error:- 0.0002505735825643581

Mean squared error:- 7.586366145749763e-08

Root mean squared error:- 0.000275433588107002

r2 Score:- 0.9999996721219302

At random state 905 the model performs very well

At random state 905

Training score is

0.9999997608438409

Predicted value is [1.86427499 2.11001659 2.20144488 2.46513516 2.11817723 1.88497382
2.23767031 2.47492431 1.84409042 1.78523385 2.79058339 1.89853256
1.88523815 2.44846438 1.24111918 2.12374036 2.27545851 1.59852046
2.09020451 1.73789567 1.96941049 1.93105292 2.22001081 1.86970726
1.96974009 2.24709352 2.75454462 1.85998222 1.95847784 1.57032522] and Actual value is [
1.86399, 2.11032, 2.20173, 2.4653099999999997, 2.11773, 1.8854099999999998, 2.237409999999
99997, 2.4748900000000003, 1.84408, 1.78555, 2.79094, 1.89894, 1.8850099999999999, 2.4487
6, 1.24074, 2.12367, 2.27513, 1.5988799999999999, 2.0906599999999997, 1.7379900000000001,
1.9696099999999999, 1.9312900000000002, 2.21978, 1.8698400000000002, 1.9699400000000002,
2.24729, 2.75414, 1.8604, 1.95812, 1.57059]

Mean absolute error:- 0.00027232437852831026

Mean squared error:- 8.870654524196055e-08

Root mean squared error:- 0.00029783644041983943

r2 Score:- 0.9999991841860771

At random state 906 the model performs very well

At random state 906

Training score is

0.9999997350732827

Predicted value is [2.67774678 2.37158883 1.73833041 2.50960924 2.27541092 2.45362899
2.04398279 2.80737679 2.47499847 2.31975146 2.86697826 2.26648357
1.94269641 1.95071888 2.59436327 1.95292908 2.20146966 1.93108595
1.59857939 2.099758 3.17757983 2.24626636 0.67139724 2.11352559
1.86970577 2.21123487 1.41717519 2.23230005 1.64838935 1.8787547] and Actual value is [
2.67782, 2.3711900000000004, 1.73797, 2.51011, 2.27513, 2.4537299999999997, 2.043840000000
00003, 2.8079099999999997, 2.4748900000000003, 2.31945, 2.86712, 2.26646, 1.94295999999999
998, 1.95071, 2.5945, 1.95335, 2.20173, 1.931290000000002, 1.5988799999999999, 2.10017,
3.17728, 2.2463900000000003, 0.67108, 2.1139900000000003, 1.8698400000000002, 2.21126, 1.
41723, 2.2327, 1.6488, 1.878777]

Mean absolute error:- 0.00024062367656882595

Mean squared error:- 8.230427839175005e-08

Root mean squared error:- 0.0002868872224267753

r2 Score:- 0.999999632595739

At random state 907 the model performs very well

At random state 907

Training score is

0.9999997308585451

Predicted value is [2.86708286 1.62255295 3.60182006 1.80035401 2.31981358 1.88500941
1.73834929 2.2665333 1.95848451 1.79319595 2.43245055 1.95293683
2.12375622 2.24190024 1.42793606 2.06387717 2.47498595 2.32136802
2.37162752 2.44847702 2.23781111 1.71928417 2.45359018 1.24116775
2.63447281 1.94272004 1.44422607 2.49210626 0.89941665 2.89319538] and Actual value is [
2.86712, 1.62215, 3.602140000000003, 1.8010099999999998, 2.31945, 1.8854099999999998, 1.
73797, 2.26646, 1.95812, 1.79293, 2.43209, 1.95335, 2.12367, 2.24173, 1.42766, 2.06367, 2.
.4748900000000003, 2.3214200000000003, 2.3711900000000004, 2.44876, 2.2374099999999997, 1
.7195599999999998, 2.4537299999999997, 1.24074, 2.6343, 1.9429599999999998, 1.44395, 2.49
20400000000003, 0.89991, 2.89319]

Mean absolute error:- 0.00027144619627396117

Mean squared error:- 9.775105927139547e-08

Root mean squared error:- 0.00031265165803397795

r2 Score:- 0.9999996548474354

At random state 908 the model performs very well

At random state 908

Training score is

0.9999997324249291

Predicted value is [1.68420693 2.27404411 2.4468121 1.75865714 2.32304878 2.70215743

1.46175695 2.27537487 2.24710213 1.95845309 1.95592439 1.5702705

0.98162707 2.53338354 1.3809279 2.76616892 2.24707245 2.53917666
1.85987849 2.67773143 2.02493222 1.34727008 1.87872943 2.79890459
2.08475135 2.5099814 2.30871291 2.46516522 2.47498421 0.89931291] and Actual value is [
1.68435, 2.27394, 2.4464900000000003, 1.75873, 2.32323, 2.70201, 1.46181, 2.27513, 2.2474
3, 1.95812, 1.9563700000000002, 1.57059, 0.98195, 2.5332, 1.38079, 2.76579, 2.24729, 2.53
94200000000002, 1.8604, 2.67782, 2.0251799999999998, 1.34759, 1.87877, 2.79832, 2.08528,
2.51009, 2.30919, 2.4653099999999997, 2.4748900000000003, 0.89991]

Mean absolute error:- 0.0002644105637961321

Mean squared error:- 9.587053494069595e-08

Root mean squared error:- 0.0003096296738697632

r2 Score:- 0.9999996245778342

At random state 909 the model performs very well

At random state 909

Training score is

0.999999714916983

Predicted value is [2.4518857 2.79068631 2.32132001 1.61627407 2.02487632 1.4617052
2.22004022 1.84418237 3.60179491 2.50986089 2.44217929 1.86611916
2.67619084 2.24185654 2.49197837 1.73800509 2.0847413 1.94929142
1.94271185 1.62258488 2.00074803 1.8643742 1.73931577 1.85110253
2.26423174 2.24631572 2.74281373 2.43846714 1.86964286 3.19106798] and Actual value is [
2.4517599999999997, 2.79094, 2.3214200000000003, 1.6158299999999999, 2.025, 1.46181, 2.21
978, 1.84408, 3.6021400000000003, 2.51009, 2.44191, 1.86565, 2.67585, 2.24173, 2.49204000
00000003, 1.7379900000000001, 2.08528, 1.9493900000000002, 1.9429599999999998, 1.62215, 2
.00073, 1.86399, 1.7393299999999998, 1.851, 2.26425, 2.2463900000000003, 2.74255, 2.43872
, 1.8698400000000002, 3.1913099999999996]

Mean absolute error:- 0.0002086281042553632

Mean squared error:- 6.460965051180498e-08

Root mean squared error:- 0.00025418428454923207

r2 Score:- 0.9999997081820442

At random state 910 the model performs very well

At random state 910

Training score is

0.9999997379861784

Predicted value is [2.79883216 1.26498281 2.09982451 2.44686049 2.4536593 2.67778144
2.20142826 2.32372841 1.63325403 2.67618091 2.4750107 2.00080488
2.11349005 2.2121348 2.23228069 1.76146863 1.95841299 1.79311288
2.86700055 2.18862144 3.05124105 2.61950452 2.0903334 1.96968465
1.68161135 1.63808915 2.75458539 2.22004258 1.86425658 2.517473] and Actual value is [
2.79832, 1.26462, 2.10017, 2.4464900000000003, 2.4537299999999997, 2.67782, 2.20173, 2.32
407, 1.6332799999999998, 2.67585, 2.4748900000000003, 2.00073, 2.1139900000000003, 2.2112
6, 2.2327, 1.76145, 1.95812, 1.79293, 2.86712, 2.18896, 3.05137, 2.61955, 2.0906599999999
997, 1.9699400000000002, 1.68135, 1.63794, 2.75414, 2.21978, 1.86399, 2.5173799999999997]

Mean absolute error:- 0.00023495723062180545

Mean squared error:- 7.665827678688112e-08

Root mean squared error:- 0.00027687231134022975

r2 Score:- 0.9999995581887018

At random state 911 the model performs very well

At random state 911

Training score is

0.9999997120566428

Predicted value is [1.41716242 1.64842125 1.59898827 2.32309453 2.82363292 3.05128227
1.75334383 1.9311111 2.00078519 3.08887852 1.68430343 1.42789433
2.44847987 2.31982725 1.62258713 1.79315792 3.10715735 2.06393266
2.43856399 1.95847852 2.67778055 2.43246857 2.26425416 2.05106655
1.87879376 2.51750439 1.44421488 2.23772204 1.69479466 2.61954357] and Actual value is [
1.41723, 1.6488, 1.59927, 2.32323, 2.82334, 3.05137, 1.7536, 1.9312900000000002, 2.00073,
3.08854, 1.68435, 1.42766, 2.44876, 2.31945, 1.62215, 1.79293, 3.10712, 2.06367, 2.43872,
1.95812, 2.67782, 2.43209, 2.26425, 2.05125, 1.87877, 2.5173799999999997, 1.44395, 2.2374
099999999997, 1.6944, 2.61955]

Mean absolute error:- 0.0002074213511041645

Mean squared error:- 6.055312244622202e-08

Root mean squared error:- 0.0002460754405588295

r2 Score:- 0.9999997519813647

At random state 912 the model performs very well

At random state 912

Training score is

0.9999997060603653

Predicted value is [2.59436953 3.08887814 1.88526232 1.85112904 1.61618817 3.60180307

2.4422001 1.95071398 1.75331356 3.19103666 3.03480029 2.75452298

2.79062248 2.24191143 1.97552137 1.73929693 2.31986681 2.11354896

2.23764949 2.45361487 2.24709349 1.85997094 2.84824222 2.5098784

1.44419717 1.71927663 2.53340346 1.87656548 2.82358061 1.95255968] and Actual value is [

2.5945, 3.08854, 1.8850099999999999, 1.851, 1.6158299999999999, 3.6021400000000003, 2.441

91, 1.95071, 1.7536, 3.1913099999999996, 3.035, 2.75414, 2.79094, 2.24173, 1.9757, 1.7393

299999999998, 2.31945, 2.1139900000000003, 2.2374099999999997, 2.4537299999999997, 2.2474

3, 1.8604, 2.84848, 2.51009, 1.44395, 1.7195599999999998, 2.5332, 1.8763400000000001, 2.8

2334, 1.9521]

Mean absolute error:- 0.00025931445454168887

Mean squared error:- 7.960104350010072e-08

Root mean squared error:- 0.00028213656888127905

r2 Score:- 0.9999997083067499

At random state 913 the model performs very well

At random state 913

Training score is

0.9999997222209303

Predicted value is [1.42783198 2.20148313 1.75870689 1.58824702 2.30873649 2.44683371

2.45366012 3.26048042 2.22002694 1.87877688 2.23234609 2.74280005

3.03486631 2.7021641 1.88527227 1.64839047 1.95249735 2.47498703

1.38094275 2.08478274 1.69480378 2.43858478 1.93109827 0.99844392

1.59857165 2.63444363 2.51752574 1.8510932 3.10713881 2.26426231] and Actual value is [

1.42766, 2.20173, 1.75873, 1.58782, 2.30919, 2.4464900000000003, 2.4537299999999997, 3.26

001, 2.21978, 1.87877, 2.2327, 2.74255, 3.035, 2.70201, 1.8850099999999999, 1.6488, 1.952

1, 2.4748900000000003, 1.38079, 2.08528, 1.6944, 2.43872, 1.9312900000000002, 0.99895, 1.

5988799999999999, 2.6343, 2.5173799999999997, 1.851, 3.10712, 2.26425]

Mean absolute error:- 0.00023757051971961355

Mean squared error:- 8.028525397689522e-08

Root mean squared error:- 0.0002833465263187379

r2 Score:- 0.9999997122877313

At random state 914 the model performs very well

At random state 914

Training score is

0.9999997168858163

Predicted value is [1.62257683 3.19110112 2.44845122 2.26419646 3.05114156 1.3473386

1.87966421 1.73797634 2.7545776 2.18865128 2.50982318 2.47495791

2.20789682 1.61624848 2.06391628 1.73930243 2.11806349 2.86694417

1.59898007 2.22006992 2.85763395 0.6714309 2.02486814 1.75334852

0.99844887 1.58826353 2.63439762 1.84415588 2.24708833 1.96941196] and Actual value is [

1.62215, 3.1913099999999996, 2.44876, 2.26425, 3.05137, 1.34759, 1.8799599999999999, 1.73

7990000000001, 2.75414, 2.18896, 2.51009, 2.4748900000000003, 2.20857, 1.6158299999999999

9, 2.06367, 1.7393299999999998, 2.11773, 2.86712, 1.59927, 2.21978, 2.85737, 0.67108, 2.0

25, 1.7536, 0.99895, 1.58782, 2.6343, 1.84408, 2.24743, 1.9696099999999999]

Mean absolute error:- 0.0002659707030741587

Mean squared error:- 9.2739455453275e-08

Root mean squared error:- 0.0003045315344151981

r2 Score:- 0.9999997158542175

At random state 915 the model performs very well

At random state 915

Training score is

0.9999997324720865

Predicted value is [1.95070916 1.96939858 2.11350335 1.88521853 1.3473751 2.45185869

3.08884338 2.32374847 2.44683804 2.41447676 1.84413145 2.43243125

2.50962418 1.879645 2.48663869 2.24706812 2.4655793 1.63813167

1.78526063 3.60177554 2.11811951 2.26420904 3.10709067 2.06394741

2.20799758 0.67143276 1.24119507 2.31981763 1.85995904 1.89855922] and Actual value is [1.95071, 1.9696099999999999, 2.1139900000000003, 1.8850099999999999, 1.34759, 2.451759999999997, 3.08854, 2.32407, 2.4464900000000003, 2.4148400000000003, 1.84408, 2.43209, 2.51011, 1.8799599999999999, 2.48676, 2.24743, 2.4657, 1.63794, 1.78555, 3.6021400000000003, 2.11773, 2.26425, 3.10712, 2.06367, 2.20857, 0.67108, 1.24074, 2.31945, 1.8604, 1.89894]

Mean absolute error:- 0.00028356571792073073

Mean squared error:- 1.020774191781018e-07

Root mean squared error:- 0.0003194955698880687

r2 Score:- 0.9999996664127601

At random state 916 the model performs very well

At random state 916

Training score is

0.999999747190337

Predicted value is [1.99178616 3.0348479 2.86697697 2.51749922 2.084694 1.21363425 1.96943405 2.76613116 2.67619909 2.89326267 1.73806725 2.27544804 1.86611157 1.87964121 2.79882007 1.95078414 3.17765972 1.86000497 2.00074469 2.45364837 1.61626151 2.43239363 1.80031662 2.20788971 2.67778421 1.5715718 2.23233375 2.50997082 1.75864972 3.05125842] and Actual value is [1.9917200000000002, 3.035, 2.86712, 2.5173799999999997, 2.08528, 1.21305, 1.9696099999999999, 2.76579, 2.67585, 2.89319, 1.7379900000000001, 2.27513, 1.86565, 1.8799599999999999, 2.79832, 1.95071, 3.17728, 1.8604, 2.00073, 2.4537299999999997, 1.6158299999999999, 2.43209, 1.8010099999999998, 2.20857, 2.67782, 1.5714, 2.2327, 2.51009, 1.75873, 3.05137]

Mean absolute error:- 0.00027347502260888223

Mean squared error:- 1.1419604136296516e-07

Root mean squared error:- 0.00033792904782360033

r2 Score:- 0.9999995407240132

At random state 917 the model performs very well

At random state 917

Training score is

0.9999997426531387

Predicted value is [1.96969855 2.79885496 2.2014312 1.96938569 1.84416212 1.73932771 2.53918871 2.27408276 2.11552296 2.20807391 1.63811261 2.05113016 2.75460942 1.62260847 2.18864194 2.44222304 2.84826949 2.79075838 2.3231193 2.11817369 1.75330363 2.06402918 1.86604788 3.1074337 2.24196952 3.10715899 2.51743944 3.17757362 1.83354139 1.69490476] and Actual value is [1.9699400000000002, 2.79832, 2.20173, 1.9696099999999999, 1.84408, 1.7393299999999998, 2.5394200000000002, 2.27394, 2.1156900000000003, 2.20857, 1.63794, 2.05125, 2.75414, 1.62215, 2.18896, 2.44191, 2.84848, 2.79094, 2.32323, 2.11773, 1.7536, 2.06367, 1.86565, 3.107090000000004, 2.24173, 3.10712, 2.5173799999999997, 3.17728, 1.83302, 1.6944]

Mean absolute error:- 0.0002757971844267552

Mean squared error:- 9.89179132509303e-08

Root mean squared error:- 0.0003145121829928537

r2 Score:- 0.9999995115554712

At random state 918 the model performs very well

At random state 918

Training score is

0.999999749017802

Predicted value is [2.32380363 2.09028188 2.08471309 2.82370344 1.59891639 1.85106656 2.24710056 1.57155011 3.17765227 1.87962393 2.20792283 2.41448844 1.87878651 1.85998593 1.95076186 1.61618223 2.27550669 1.42781918 2.45187164 1.84414 2.12503763 0.65443092 1.83344934 1.71921372 2.51774958 2.79881879 2.76618016 1.793108 0.89932655 2.23233894] and Actual value is [2.32407, 2.0906599999999997, 2.08528, 2.82334, 1.59927, 1.851, 2.24743, 1.5714, 3.17728, 1.8799599999999999, 2.20857, 2.4148400000000003, 1.87877, 1.8604, 1.95071, 1.6158299999999999, 2.27513, 1.42766, 2.4517599999999997, 1.84408, 2.12466, 0.6542899999999999, 1.83302, 1.7195599999999998, 2.51767, 2.79832, 2.76579, 1.79293, 0.89991, 2.2327]

Mean absolute error:- 0.00030363325080692285

Mean squared error:- 1.1933905012972268e-07

Root mean squared error:- 0.00034545484528332015

r2 Score:- 0.999999518492859

At random state 919 the model performs very well
At random state 919
Training score is
0.9999997289404748
Predicted value is [2.89323634 1.46178121 2.20147895 2.26418908 1.96941756 3.60183935
2.44691262 2.04403868 2.12508265 1.57167859 0.98167763 1.95247005
2.43857424 1.71931302 1.86610421 2.05098323 2.27545494 2.09024272
1.73928841 2.51766632 1.46504493 2.46557585 2.12380038 2.75458576
1.95596571 2.44843126 2.80734305 1.9427522 2.0998142 2.51747336] and Actual value is [
2.89319, 1.46181, 2.20173, 2.26425, 1.9696099999999999, 3.6021400000000003, 2.44649000000
00003, 2.0438400000000003, 2.12466, 1.5714, 0.98195, 1.9521, 2.43872, 1.7195599999999998,
1.86565, 2.05125, 2.27513, 2.0906599999999997, 1.7393299999999998, 2.51767, 1.46494, 2.46
57, 2.12367, 2.75414, 1.9563700000000002, 2.44876, 2.8079099999999997, 1.9429599999999998
, 2.10017, 2.5173799999999997]
Mean absolute error:- 0.00025028428866709455
Mean squared error:- 8.457752936949293e-08
Root mean squared error:- 0.00029082216107011676
r2 Score:- 0.9999996559545444

At random state 920 the model performs very well
At random state 920
Training score is
0.999999728844028
Predicted value is [3.26047378 2.24711256 2.53918301 1.88957483 1.57032468 2.44219097
0.67133521 1.73836273 2.32376172 2.12371843 2.6762049 1.78522991
1.79313685 2.79890426 2.27540538 2.21120062 2.70216664 2.232292
2.51751444 1.7533065 2.26425008 1.96971104 2.67775543 2.4324904
1.87871778 2.51763052 1.85990912 1.84410884 1.87965202 1.94944152] and Actual value is [
3.26001, 2.24729, 2.5394200000000002, 1.8893099999999998, 1.57059, 2.44191, 0.67108, 1.73
797, 2.32407, 2.12367, 2.67585, 1.78555, 1.79293, 2.79832, 2.27513, 2.21126, 2.70201, 2.2
327, 2.5173799999999997, 1.7536, 2.26425, 1.9699400000000002, 2.67782, 2.43209, 1.87877,
2.51767, 1.8604, 1.84408, 1.8799599999999999, 1.9493900000000002]
Mean absolute error:- 0.00023841125367692894
Mean squared error:- 7.955313951170256e-08
Root mean squared error:- 0.00028205166106885906
r2 Score:- 0.9999996464209363

At random state 921 the model performs very well
At random state 921
Training score is
0.9999996896274604
Predicted value is [1.26492076 1.44421615 1.4278782 2.79061956 1.73791141 1.92338476
2.46514335 2.00079543 0.89938355 1.93104801 1.59897432 2.45365995
2.50988848 1.76132537 2.50957846 2.49205371 1.38095753 2.43855761
2.11359509 3.26049732 2.44225056 0.98166439 2.09020479 1.73828671
1.34733962 3.17761354 3.10716254 1.85112977 1.75331892 1.88948931] and Actual value is [
1.26462, 1.44395, 1.42766, 2.79094, 1.7379900000000001, 1.92313, 2.4653099999999997, 2.00
073, 0.89991, 1.9312900000000002, 1.59927, 2.4537299999999997, 2.51009, 1.76145, 2.51011,
2.4920400000000003, 1.38079, 2.43872, 2.1139900000000003, 3.26001, 2.44191, 0.98195, 2.09
06599999999997, 1.73797, 1.34759, 3.17728, 3.10712, 1.851, 1.7536, 1.8893099999999998]
Mean absolute error:- 0.0002501143332532485
Mean squared error:- 8.12778381789802e-08
Root mean squared error:- 0.00028509268348903693
r2 Score:- 0.9999997801739559

At random state 922 the model performs very well
At random state 922
Training score is
0.9999997206752939
Predicted value is [2.32133885 3.19112859 1.86975697 2.13142024 0.98165544 1.94939493
1.80041454 1.95073137 1.58829196 2.11816009 1.417183 2.23774865
1.75332639 0.6544658 1.97549022 3.26049221 3.03485695 1.95595127
2.051072 1.73925631 1.26494014 1.73835218 1.86423534 1.96974648
1.85999514 1.88498668 1.76136141 1.93106761 2.12502574 2.53340563] and Actual value is [
2.3214200000000003, 3.1913099999999996, 1.8698400000000002, 2.1309, 0.98195, 1.9493900000
000002, 1.8010099999999998, 1.95071, 1.58782, 2.11773, 1.41723, 2.2374099999999997, 1.753

6, 0.6542899999999999, 1.9757, 3.26001, 3.035, 1.9563700000000002, 2.05125, 1.739329999999
99998, 1.26462, 1.73797, 1.86399, 1.9699400000000002, 1.8604, 1.885409999999998, 1.76145
, 1.9312900000000002, 2.12466, 2.5332]

Mean absolute error:- 0.0002625488425723595
Mean squared error:- 9.404583584574007e-08
Root mean squared error:- 0.00030666893524734464
r2 Score:- 0.9999996795579221

At random state 923 the model performs very well

At random state 923

Training score is

0.999999720764137

Predicted value is [1.97546993 2.20146881 1.75338542 1.85997939 1.26500645 1.85106491
1.94270969 1.84415665 1.6332853 1.46180932 2.24623759 1.88956379
1.95293213 0.67147309 3.60174747 2.50955919 1.80037414 2.47497171
2.84821348 1.93112243 2.83589674 1.5957474 1.73928315 2.45360414
2.11353889 2.46554175 1.92338441 2.11809603 1.21366828 2.61949911] and Actual value is [
1.9757, 2.20173, 1.7536, 1.8604, 1.26462, 1.851, 1.942959999999998, 1.84408, 1.633279999
9999998, 1.46181, 2.2463900000000003, 1.8893099999999998, 1.95335, 0.67108, 3.60214000000
00003, 2.51011, 1.8010099999999998, 2.4748900000000003, 2.84848, 1.9312900000000002, 2.83
60000000000003, 1.59541, 1.7393299999999998, 2.4537299999999997, 2.1139900000000003, 2.46
57, 1.92313, 2.11773, 1.21305, 2.61955]

Mean absolute error:- 0.00025784120842532824

Mean squared error:- 9.684037564253956e-08

Root mean squared error:- 0.0003111918630725096

r2 Score:- 0.9999996829159816

At random state 924 the model performs very well

At random state 924

Training score is

0.9999996992271533

Predicted value is [2.26417637 2.41450926 1.92345995 2.53924351 2.27552636 2.44853377
0.65448603 2.7427957 1.73925771 2.00082945 2.20788628 2.82366023
1.46510355 2.32378569 3.1775926 1.6483217 3.60187775 2.63445423
1.59584928 2.04403001 2.46513143 3.05119241 2.50955286 2.61954382
2.02480361 2.85761322 2.23771427 2.45181279 1.4442027 2.18860983] and Actual value is [
2.26425, 2.4148400000000003, 1.92313, 2.5394200000000002, 2.27513, 2.44876, 0.65428999999
9999, 2.74255, 1.7393299999999998, 2.00073, 2.20857, 2.82334, 1.46494, 2.32407, 3.17728,
1.6488, 3.6021400000000003, 2.6343, 1.59541, 2.0438400000000003, 2.4653099999999997, 3.05
137, 2.51011, 2.61955, 2.025, 2.85737, 2.2374099999999997, 2.4517599999999997, 1.44395, 2
.18896]

Mean absolute error:- 0.0002584780127921701

Mean squared error:- 8.853883223572465e-08

Root mean squared error:- 0.00029755475502119715

r2 Score:- 0.9999997336232429

At random state 925 the model performs very well

At random state 925

Training score is

0.9999997149027893

Predicted value is [1.75332122 0.65449663 2.04401167 1.57161896 1.42787401 1.95257335
2.84820526 2.00079359 2.53915242 1.80036721 1.95848571 2.49205384
3.60180135 1.68424724 0.98173669 2.08478013 1.87881118 2.11355985
2.21997866 2.32305605 2.18862995 1.84409431 3.08880814 2.79061065
2.23768765 2.23232177 2.118184 2.27549119 1.57032894 1.68155207] and Actual value is [
1.7536, 0.654289999999999, 2.043840000000003, 1.5714, 1.42766, 1.9521, 2.84848, 2.00073
, 2.5394200000000002, 1.801009999999998, 1.95812, 2.4920400000000003, 3.6021400000000003
, 1.68435, 0.98195, 2.08528, 1.87877, 2.113990000000003, 2.21978, 2.32323, 2.18896, 1.84
408, 3.08854, 2.79094, 2.2374099999999997, 2.2327, 2.11773, 2.27513, 1.57059, 1.68135]

Mean absolute error:- 0.0002688731773234661

Mean squared error:- 9.327298719685734e-08

Root mean squared error:- 0.00030540626581138986

r2 Score:- 0.9999997144896917

At random state 926 the model performs very well
At random state 926
Training score is
0.999999752208312
Predicted value is [1.84413371 1.79319243 2.80739436 1.95077376 2.08478867 2.44846064
1.76140505 1.41723332 1.95245847 2.50959148 2.12503067 1.95848364
1.87662748 2.8359672 2.26422607 2.47497693 3.03484546 2.23774248
2.27414159 2.79882082 2.31974607 1.63812223 1.75336062 2.49204276
1.73928119 1.92341379 1.58830639 1.89855499 1.97547418 2.12375683] and Actual value is [
1.84408, 1.79293, 2.8079099999999997, 1.95071, 2.08528, 2.44876, 1.76145, 1.41723, 1.9521
, 2.51011, 2.12466, 1.95812, 1.8763400000000001, 2.8360000000000003, 2.26425, 2.474890000
0000003, 3.035, 2.2374099999999997, 2.27394, 2.79832, 2.31945, 1.63794, 1.7536, 2.4920400
00000003, 1.7393299999999998, 1.92313, 1.58782, 1.89894, 1.9757, 2.12367]

Mean absolute error:- 0.00024011585579496823
Mean squared error:- 8.546425966348234e-08
Root mean squared error:- 0.00029234270927027127
r2 Score:- 0.999999460829293

At random state 927 the model performs very well
At random state 927
Training score is
0.9999997417074212
Predicted value is [2.09028936 2.53922005 2.67777555 2.12510324 1.63809604 1.86000275
2.48665373 1.63326367 2.43251406 1.44421972 2.11820091 1.62260651
2.44690357 3.1071616 2.89326738 2.23235859 2.63445268 2.32130624
2.24708904 1.83350231 1.73931071 1.75878837 1.88956962 1.64834581
2.44225867 2.26643172 2.76619666 1.58827941 2.86712456 2.82361993] and Actual value is [
2.0906599999999997, 2.5394200000000002, 2.67782, 2.12466, 1.63794, 1.8604, 2.48676, 1.633
27999999999998, 2.43209, 1.44395, 2.11773, 1.62215, 2.4464900000000003, 3.10712, 2.89319,
2.2327, 2.6343, 2.3214200000000003, 2.24743, 1.83302, 1.7393299999999998, 1.75873, 1.8893
099999999998, 1.6488, 2.44191, 2.26646, 2.76579, 1.58782, 2.86712, 2.82334]

Mean absolute error:- 0.0002546003722631252
Mean squared error:- 9.291112801811375e-08
Root mean squared error:- 0.00030481326745749395
r2 Score:- 0.9999995551063137

At random state 928 the model performs very well
At random state 928
Training score is
0.9999997361874359
Predicted value is [1.34736499 1.96943772 3.03483183 2.27411204 1.95596384 1.94929512
2.86694312 2.20791846 1.87969842 2.24177561 2.50985533 2.24711037
1.95073188 2.84825559 1.73833845 1.41717982 1.58831765 1.44420211
2.49200637 1.2650631 2.09029817 1.57166266 2.43852211 2.23772108
1.75338799 1.21365151 1.87661404 2.06387373 2.47497436 2.24713118] and Actual value is [
1.34759, 1.969609999999999, 3.035, 2.27394, 1.956370000000002, 1.949390000000002, 2.86
712, 2.20857, 1.879959999999999, 2.24173, 2.51009, 2.24743, 1.95071, 2.84848, 1.73797, 1
.41723, 1.58782, 1.44395, 2.4920400000000003, 1.26462, 2.090659999999997, 1.5714, 2.4387
2, 2.2374099999999997, 1.7536, 1.21305, 1.8763400000000001, 2.06367, 2.4748900000000003,
2.24729]

Mean absolute error:- 0.0002495925926248403
Mean squared error:- 8.616745879304599e-08
Root mean squared error:- 0.00029354294199153555
r2 Score:- 0.9999996046515062

At random state 929 the model performs very well
At random state 929
Training score is
0.9999997580491062
Predicted value is [3.08888248 1.88524686 1.59894772 2.4536411 1.80035461 1.69485212
1.87963824 1.41718573 1.95840147 2.76616661 2.31987908 1.86608499
2.20793809 2.32310538 1.99180596 2.32378216 2.06387403 1.88505622
1.61622428 1.85105381 1.73830046 1.92337279 3.05124467 2.5176814
2.79878214 1.93111369 2.89329037 1.46505488 2.21120909 2.30876371] and Actual value is [
3.08854, 1.885009999999999, 1.59927, 2.453729999999997, 1.801009999999998, 1.6944, 1.8
79599999999999, 1.41723, 1.95812, 2.76579, 2.31945, 1.86565, 2.20857, 2.32323, 1.9917200

00000002, 2.32407, 2.06367, 1.8854099999999998, 1.6158299999999999, 1.851, 1.73797, 1.92
313, 3.05137, 2.51767, 2.79832, 1.9312900000000002, 2.89319, 1.46494, 2.21126, 2.30919]

Mean absolute error:- 0.0002721110235642413
Mean squared error:- 1.0284808727192865e-07
Root mean squared error:- 0.00032069937211028125
r2 Score:- 0.9999994879150909

At random state 930 the model performs very well

At random state 930

Training score is

0.999997452558099

Predicted value is [2.06380945 3.60179348 2.442167 1.87878068 1.46184464 2.59436986
1.80035631 2.11354722 1.59857552 2.09973752 2.00078214 2.20790103
1.92337323 1.63325818 2.2471233 1.26499932 1.94273824 1.78526373
3.10720302 2.31983303 1.89853291 1.57163478 2.37157319 2.79065626
2.45189129 2.51750503 2.27411978 1.58827975 1.24115563 2.18868046] and Actual value is [
2.06367, 3.6021400000000003, 2.44191, 1.87877, 1.46181, 2.5945, 1.801009999999998, 2.113
9900000000003, 1.5988799999999999, 2.10017, 2.00073, 2.20857, 1.92313, 1.6332799999999998
, 2.24743, 1.26462, 1.9429599999999998, 1.78555, 3.1070900000000004, 2.31945, 1.89894, 1.
5714, 2.3711900000000004, 2.79094, 2.4517599999999997, 2.5173799999999997, 2.27394, 1.587
82, 1.24074, 2.18896]

Mean absolute error:- 0.00027759774671394234

Mean squared error:- 1.0470016369224272e-07

Root mean squared error:- 0.00032357404669139134

r2 Score:- 0.999999597303794

At random state 931 the model performs very well

At random state 931

Training score is

0.999997356983532

Predicted value is [1.95254952 1.80040814 1.75332661 1.46182108 2.76615728 1.75871421
2.32306468 0.67142858 2.83592617 1.86432477 1.62258024 2.51766912
1.88500398 2.44683708 2.02497839 2.67772183 2.20144333 2.79880645
2.24708944 2.84822636 1.87881029 1.95076399 2.79063583 1.79318213
1.58824613 2.46512588 2.18866385 2.24707731 2.44224744 2.47491884] and Actual value is [
1.9521, 1.80100999999998, 1.7536, 1.46181, 2.76579, 1.75873, 2.32323, 0.67108, 2.836000
000000003, 1.86399, 1.62215, 2.51767, 1.88540999999998, 2.4464900000000003, 2.02517999
99999998, 2.67782, 2.20173, 2.79832, 2.24729, 2.84848, 1.87877, 1.95071, 2.79094, 1.79293
, 1.58782, 2.4653099999999997, 2.18896, 2.24743, 2.44191, 2.4748900000000003]

Mean absolute error:- 0.0002542893429088126

Mean squared error:- 8.958838665649511e-08

Root mean squared error:- 0.0002993131915844925

r2 Score:- 0.9999996239471305

At random state 932 the model performs very well

At random state 932

Training score is

0.999997481643021

Predicted value is [1.92333318 3.1910784 1.859901 1.86972995 1.71934554 2.08474257
1.73927593 1.21360729 2.21118487 1.63817026 2.11813019 2.20138634
2.53340868 2.79885083 1.86430841 1.87662292 1.89850047 0.99849628
3.60175296 2.84824221 2.51755477 1.75333766 2.13136157 1.62257823
1.73835628 2.11009817 2.12372451 1.80035887 3.10722141 2.80737712] and Actual value is [
1.92313, 3.191309999999996, 1.8604, 1.869840000000002, 1.719559999999998, 2.08528, 1.7
393299999999998, 1.21305, 2.21126, 1.63794, 2.11773, 2.20173, 2.5332, 2.79832, 1.86399, 1.
.876340000000001, 1.89894, 0.99895, 3.602140000000003, 2.84848, 2.51767, 1.7536, 2.1309
, 1.62215, 1.73797, 2.11032, 2.12367, 1.801009999999998, 3.1070900000000004, 2.807909999
999997]

Mean absolute error:- 0.0003186885573126926

Mean squared error:- 1.28617888901568e-07

Root mean squared error:- 0.000358633627837321

r2 Score:- 0.9999996027997938

At random state 933 the model performs very well

At random state 933
Training score is
0.9999997247936175
Predicted value is [2.51767996 3.19109456 1.93116961 2.12374061 2.06395502 1.95595479
2.70215255 1.95842986 3.051209 2.23230312 1.38094858 1.62259015
1.88963418 1.9427117 1.34731817 2.22005501 1.73802893 2.63443139
2.49200271 1.87872554 2.67619485 2.45186942 1.59863247 2.79077387
1.64841523 1.21359669 2.09983248 2.67775068 2.41449515 1.6948802] and Actual value is [
2.51767, 3.1913099999999996, 1.9312900000000002, 2.12367, 2.06367, 1.9563700000000002, 2.
70201, 1.95812, 3.05137, 2.2327, 1.38079, 1.62215, 1.8893099999999998, 1.9429599999999998
, 1.34759, 2.21978, 1.7379900000000001, 2.6343, 2.4920400000000003, 1.87877, 2.67585, 2.4
517599999999997, 1.5988799999999999, 2.79094, 1.6488, 1.21305, 2.10017, 2.67782, 2.414840
000000003, 1.6944]

Mean absolute error:- 0.00023761041029592977
Mean squared error:- 7.705351490529596e-08
Root mean squared error:- 0.00027758514892784874
r2 Score:- 0.999999690308126

At random state 934 the model performs very well
At random state 934
Training score is
0.9999997137151111

Predicted value is [2.13134619 2.89326616 2.11353953 2.84826672 1.75332775 1.58822462
2.83594544 2.86704901 2.7661735 2.46516007 2.11812948 2.79072485
2.24188433 3.034841 2.50963755 2.27406701 0.65447207 0.89938182
2.09979788 2.5176966 1.69484495 0.99845285 2.79878139 1.41716897
2.67618349 2.59438879 2.20797136 1.86430058 2.46561071 1.68154916] and Actual value is [
2.1309, 2.89319, 2.1139900000000003, 2.84848, 1.7536, 1.58782, 2.8360000000000003, 2.8671
2, 2.76579, 2.4653099999999997, 2.11773, 2.79094, 2.24173, 3.035, 2.51011, 2.27394, 0.654
2899999999999, 0.89991, 2.10017, 2.51767, 1.6944, 0.99895, 2.79832, 1.41723, 2.67585, 2.5
945, 2.20857, 1.86399, 2.4657, 1.68135]

Mean absolute error:- 0.0002755074877043073
Mean squared error:- 1.0340371259214222e-07
Root mean squared error:- 0.0003215644765706284
r2 Score:- 0.9999997320318385

At random state 935 the model performs very well
At random state 935
Training score is
0.9999997177241793

Predicted value is [2.24706159 2.70215476 2.37159067 2.30867416 1.95847677 2.0998166
2.79066806 1.95597128 3.19110353 2.23235685 2.79878562 1.73927376
2.22000415 1.95068063 2.09026383 1.57165641 2.76613802 3.10711387
2.20143458 2.4468334 1.94271371 0.65449328 2.00075499 1.42785759
2.26649391 1.63315912 2.24709645 0.99842294 2.32306151 2.59436242] and Actual value is [
2.24729, 2.70201, 2.371190000000004, 2.30919, 1.95812, 2.10017, 2.79094, 1.9563700000000
002, 3.191309999999996, 2.2327, 2.79832, 1.739329999999998, 2.21978, 1.95071, 2.0906599
999999997, 1.5714, 2.76579, 3.10712, 2.20173, 2.446490000000003, 1.9429599999999998, 0.6
542899999999999, 2.00073, 1.42766, 2.26646, 1.6332799999999998, 2.24743, 0.99895, 2.32323
, 2.5945]

Mean absolute error:- 0.0002544895409919053
Mean squared error:- 8.530453155935208e-08
Root mean squared error:- 0.0002920693951090256
r2 Score:- 0.9999997152623271

At random state 936 the model performs very well
At random state 936
Training score is
0.9999997578653178

Predicted value is [3.03485251 1.69491187 2.44679865 2.37156669 1.95251552 2.27408797
1.68430371 2.02484402 1.71923097 1.21358102 2.20786767 0.9984865
2.32376239 1.34729613 2.86689978 2.67620636 1.76151723 1.88529693
1.87966033 2.09979087 2.11353009 1.86610019 2.75461044 1.44410965
1.6816007 2.32133584 1.64842967 2.22008433 2.53344927 1.26502821] and Actual value is [
3.035, 1.6944, 2.446490000000003, 2.371190000000004, 1.9521, 2.27394, 1.68435, 2.025, 1
.719559999999998, 1.21305, 2.20857, 0.99895, 2.32407, 1.34759, 2.86712, 2.67585, 1.76145

, 1.8850099999999999, 1.8799599999999999, 2.10017, 2.1139900000000003, 1.86565, 2.75414, 1.44395, 1.68135, 2.3214200000000003, 1.6488, 2.21978, 2.5332, 1.26462]

Mean absolute error:- 0.00031848525443237314
Mean squared error:- 1.235540583542351e-07
Root mean squared error:- 0.00035150257232947115
r2 Score:- 0.9999994966643299

At random state 937 the model performs very well

At random state 937

Training score is

0.999997318998932

Predicted value is [2.8669844 2.79062971 2.24712591 2.80737542 3.08884931 2.02484876 2.11353871 2.70213957 2.43856187 2.83593041 1.95250524 1.96945153 0.65452037 2.371577 2.5096315 0.89941969 1.93109469 1.26497069 2.45364994 1.62257094 1.87965093 2.41451234 2.50982175 2.13136037 1.69484322 3.260417 2.20791508 2.84823908 2.24179996 1.78522196] and Actual value is [2.86712, 2.79094, 2.24743, 2.807909999999997, 3.08854, 2.025, 2.113990000000003, 2.70201, 2.43872, 2.836000000000003, 1.9521, 1.969609999999999, 0.654289999999999, 2.37119000000004, 2.51011, 0.89991, 1.931290000000002, 1.26462, 2.453729999999997, 1.62215, 1.879959999999999, 2.414840000000003, 2.51009, 2.1309, 1.6944, 3.26001, 2.20857, 2.84848, 2.24173, 1.78555]

Mean absolute error:- 0.00030866575863457054

Mean squared error:- 1.1721200871535471e-07

Root mean squared error:- 0.00034236239383926895

r2 Score:- 0.999999667822875

At random state 938 the model performs very well

At random state 938

Training score is

0.999997450535487

Predicted value is [1.85989535 1.44413675 1.73926857 1.97548856 2.45188753 1.87871288 1.75330099 2.86707221 1.88955462 1.99175152 2.20138384 2.53915256 1.59894309 1.46503748 2.31980234 1.57030563 2.48673041 2.2740678 2.7988807 1.62256455 1.89851716 1.64839659 1.87963093 2.09031106 1.68155116 2.67618914 1.84410059 1.95592728 1.57161745 2.5099786] and Actual value is [1.8604, 1.44395, 1.739329999999998, 1.9757, 2.451759999999997, 1.87877, 1.7536, 2.86712, 1.889309999999998, 1.991720000000002, 2.20173, 2.5394200000000002, 1.59927, 1.46494, 2.31945, 1.57059, 2.48676, 2.27394, 2.79832, 1.62215, 1.89894, 1.6488, 1.879959999999999, 2.0906599999999997, 1.68135, 2.67585, 1.84408, 1.9563700000000002, 1.5714, 2.51009]

Mean absolute error:- 0.0002471967174819382

Mean squared error:- 8.364732993933383e-08

Root mean squared error:- 0.00028921848132395313

r2 Score:- 0.9999994744357746

At random state 939 the model performs very well

At random state 939

Training score is

0.999997028721543

Predicted value is [2.4144891 2.45363631 2.24186741 2.74277308 1.6483694 1.89856823 0.98170807 1.96939883 2.61950798 1.88499264 2.51746779 0.899427 1.99177343 1.95247271 2.63444351 1.5716519 2.04403578 1.41716974 2.45184351 1.96968909 3.60183492 2.24630538 1.95596266 1.24117519 2.50992518 1.86606525 1.88956211 3.1071151 1.63809325 1.62257718] and Actual value is [2.414840000000003, 2.453729999999997, 2.24173, 2.74255, 1.6488, 1.89894, 0.98195, 1.969609999999999, 2.61955, 1.885409999999998, 2.517379999999997, 0.89991, 1.991720000000002, 1.9521, 2.6343, 1.5714, 2.043840000000003, 1.41723, 2.451759999999997, 1.96994000000002, 3.602140000000003, 2.246390000000003, 1.9563700000000002, 1.24074, 2.51009, 1.86565, 1.889309999999998, 3.10712, 1.63794, 1.62215]

Mean absolute error:- 0.00023841617543155871

Mean squared error:- 7.688899166962362e-08

Root mean squared error:- 0.0002772886432395377

r2 Score:- 0.9999997700959651

At random state 940 the model performs very well

At random state 940
Training score is
0.9999997304106902
Predicted value is [0.65440348 2.11350778 3.17761162 1.86966111 2.10994405 0.99842646
1.46500128 1.89851639 2.11807754 2.09974119 3.05119639 1.75330889
1.73791724 2.0847358 2.30871153 1.57030166 2.09023234 1.86606418
2.61953734 1.78519743 2.44842481 2.63441133 0.89934508 1.59562235
1.6225259 1.97546642 2.23230447 2.89325194 1.63808796 2.05101295] and Actual value is [
0.6542899999999999, 2.1139900000000003, 3.17728, 1.8698400000000002, 2.11032, 0.99895, 1.
46494, 1.89894, 2.11773, 2.10017, 3.05137, 1.7536, 1.7379900000000001, 2.08528, 2.30919,
1.57059, 2.0906599999999997, 1.86565, 2.61955, 1.78555, 2.44876, 2.6343, 0.89991, 1.59541
, 1.62215, 1.9757, 2.2327, 2.89319, 1.63794, 2.05125]

Mean absolute error:- 0.0002999421874701406

Mean squared error:- 1.1403999429785305e-07

Root mean squared error:- 0.0003376980815726572

r2 Score:- 0.999999644842549

At random state 941 the model performs very well

At random state 941

Training score is

0.9999997171586068

Predicted value is [3.19103103 1.73928887 2.44850453 1.84412887 1.86434735 2.67773331
2.18863698 3.10739279 2.24189139 1.95846187 2.27407037 1.76143676
2.63441455 1.24113336 2.09981312 1.99186604 2.27554747 1.63332549
3.03480742 2.50963547 2.05108275 2.3212883 2.45188014 2.31982891
2.49200422 2.00079553 2.84823769 2.76618375 1.5957358 1.87964834] and Actual value is [
3.1913099999999996, 1.7393299999999998, 2.44876, 1.84408, 1.86399, 2.67782, 2.18896, 3.10
70900000000004, 2.24173, 1.95812, 2.27394, 1.76145, 2.6343, 1.24074, 2.10017, 1.991720000
0000002, 2.27513, 1.6332799999999998, 3.035, 2.51011, 2.05125, 2.3214200000000003, 2.4517
599999999997, 2.31945, 2.4920400000000003, 2.00073, 2.84848, 2.76579, 1.59541, 1.87995999
9999999]

Mean absolute error:- 0.00022182997183325023

Mean squared error:- 6.731991707120786e-08

Root mean squared error:- 0.0002594608199154698

r2 Score:- 0.9999996876922973

At random state 942 the model performs very well

At random state 942

Training score is

0.999999717467672

Predicted value is [1.86965853 2.26647084 3.10730679 2.18865527 1.57161341 2.20150352
1.57038142 1.86432451 1.95295388 1.21355564 0.671445 1.71926084
1.8852435 1.68428404 1.64843035 2.26422631 2.05107151 2.79070802
2.31982812 1.95598667 1.59898325 1.26499137 2.02484492 1.75335858
2.12506069 2.32131383 2.63442392 2.27550321 2.89324057 1.63330417] and Actual value is [
1.8698400000000002, 2.26646, 3.107090000000004, 2.18896, 1.5714, 2.20173, 1.57059, 1.863
99, 1.95335, 1.21305, 0.67108, 1.71959999999998, 1.885009999999999, 1.68435, 1.6488, 2
.26425, 2.05125, 2.79094, 2.31945, 1.956370000000002, 1.59927, 1.26462, 2.025, 1.7536, 2
.12466, 2.3214200000000003, 2.6343, 2.27513, 2.89319, 1.6332799999999998]

Mean absolute error:- 0.00024202605084836515

Mean squared error:- 7.547316746892956e-08

Root mean squared error:- 0.00027472380215214255

r2 Score:- 0.9999997004023806

At random state 943 the model performs very well

At random state 943

Training score is

0.9999997210900365

Predicted value is [1.78520627 2.27553069 2.48654113 1.26492242 2.30875898 2.09024661
1.95598405 1.73826284 1.34726669 2.32312507 1.87965205 3.26051518
1.94932092 2.44852143 3.17766937 1.85110662 2.09982178 2.76621855
2.05106857 1.5703691 3.10742792 1.3808823 0.99838327 2.12511564
2.7546383 3.08893203 1.83338808 3.19115251 1.87875243 2.46516388] and Actual value is [
1.78555, 2.27513, 2.48676, 1.26462, 2.30919, 2.090659999999997, 1.9563700000000002, 1.73
797, 1.34759, 2.32323, 1.879959999999999, 3.26001, 1.9493900000000002, 2.44876, 3.17728,
1.851, 2.10017, 2.76579, 2.05125, 1.57059, 3.107090000000004, 1.38079, 0.99895, 2.12466,

2.75414, 3.08854, 1.83302, 3.1913099999999996, 1.87877, 2.4653099999999997]

Mean absolute error:- 0.000301507607161929

Mean squared error:- 1.1072557486455642e-07

Root mean squared error:- 0.00033275452643736705

r2 Score:- 0.9999996886450397

At random state 944 the model performs very well

At random state 944

Training score is

0.9999997268427165

Predicted value is [2.32376861 2.53336699 1.96962207 2.24177682 2.50986691 2.41449665

3.17761168 2.26414172 2.32131416 1.34722651 0.65443802 1.86964014

1.73925857 1.64828557 2.86696552 2.02492332 1.96940255 1.95252597

2.45377238 2.44680267 2.45179369 2.20788636 1.68429195 2.59443072

2.50955707 1.59586304 2.82367065 2.12372503 2.51780885 2.75462659] and Actual value is [

2.32407, 2.5332, 1.9699400000000002, 2.24173, 2.51009, 2.4148400000000003, 3.17728, 2.264

25, 2.3214200000000003, 1.34759, 0.6542899999999999, 1.8698400000000002, 1.7393299999999999

98, 1.6488, 2.86712, 2.025179999999998, 1.969609999999999, 1.9521, 2.4537299999999997,

2.4464900000000003, 2.451759999999997, 2.20857, 1.68435, 2.5945, 2.51011, 1.59541, 2.823

34, 2.12367, 2.51767, 2.75414]

Mean absolute error:- 0.0002501321750721227

Mean squared error:- 9.187169610888373e-08

Root mean squared error:- 0.0003031034412686265

r2 Score:- 0.9999996326373113

At random state 945 the model performs very well

At random state 945

Training score is

0.999999714473371

Predicted value is [1.89855373 1.41718825 1.75330713 0.65451079 2.53916173 2.75451314

1.85111252 2.08480557 2.11816795 1.87875556 2.44842112 0.9816872

2.48665928 1.58827754 2.13139528 1.83346124 2.45359111 1.73929993

1.73795796 2.41447905 1.93110987 2.51761019 1.46508805 1.96941474

1.99176224 2.20140751 1.92337521 1.62260567 3.60177307 2.11554719] and Actual value is [

1.89894, 1.41723, 1.7536, 0.6542899999999999, 2.5394200000000002, 2.75414, 1.851, 2.08528

, 2.11773, 1.87877, 2.44876, 0.98195, 2.48676, 1.58782, 2.1309, 1.83302, 2.4537299999999

97, 1.739329999999998, 1.7379900000000001, 2.4148400000000003, 1.9312900000000002, 2.517

67, 1.46494, 1.969609999999999, 1.9917200000000002, 2.20173, 1.92313, 1.62215, 3.6021400

00000003, 2.1156900000000003]

Mean absolute error:- 0.0002476474926301431

Mean squared error:- 8.468949367123409e-08

Root mean squared error:- 0.0002910145935708965

r2 Score:- 0.9999997070465139

At random state 946 the model performs very well

At random state 946

Training score is

0.9999996863597266

Predicted value is [1.96970777 2.13138293 1.95288028 1.58827491 1.95847266 1.87885403

1.75338963 3.60183481 2.06385029 1.73926872 2.50956073 2.02482245

2.09974972 1.38099262 1.26499076 2.26646104 2.24182815 2.89315008

2.2642325 1.57032158 1.44423202 0.99841474 0.8994216 2.50989084

2.6777618 1.75870748 2.24626877 2.45185512 3.17763744 0.67142413] and Actual value is [

1.9699400000000002, 2.1309, 1.95335, 1.58782, 1.95812, 1.87877, 1.7536, 3.602140000000000

3, 2.06367, 1.739329999999998, 2.51011, 2.025, 2.10017, 1.38079, 1.26462, 2.26646, 2.241

73, 2.89319, 2.26425, 1.57059, 1.44395, 0.99895, 0.89991, 2.51009, 2.67782, 1.75873, 2.24

63900000000003, 2.451759999999997, 3.17728, 0.67108]

Mean absolute error:- 0.0002494198941046744

Mean squared error:- 9.032784127417977e-08

Root mean squared error:- 0.00030054590543572503

r2 Score:- 0.9999997741575866

At random state 947 the model performs very well

At random state 947

Training score is
0.9999997144834668
Predicted value is [1.61624581 2.4324432 2.84826387 1.34733384 2.20796173 2.4385536
2.45186989 2.61953874 1.21369159 2.11354669 0.65461348 2.31974444
2.00077938 2.30872829 1.88961896 2.05119125 1.83347205 3.1070473
1.94930666 1.59895939 1.44418411 3.60181842 3.26041107 1.68161353
2.46556792 2.0440256 2.74280046 1.95595904 1.59578718 2.1180883] and Actual value is [
1.6158299999999999, 2.43209, 2.84848, 1.34759, 2.20857, 2.43872, 2.4517599999999997, 2.61
955, 1.21305, 2.1139900000000003, 0.6542899999999999, 2.31945, 2.00073, 2.30919, 1.889309
9999999998, 2.05125, 1.83302, 3.10712, 1.9493900000000002, 1.59927, 1.44395, 3.6021400000
000003, 3.26001, 1.68135, 2.4657, 2.0438400000000003, 2.74255, 1.9563700000000002, 1.5954
1, 2.11773]

Mean absolute error:- 0.0002857438172462386

Mean squared error:- 1.0632079609380252e-07

Root mean squared error:- 0.00032606869842688446

r2 Score:- 0.9999997197422327

At random state 948 the model performs very well

At random state 948

Training score is

0.9999997182276418

Predicted value is [2.44681248 3.05114667 1.73834909 3.10706026 2.48655332 1.88503404
1.88532914 2.59436125 2.11351407 1.68431605 1.69484657 1.417139
2.67774099 1.7192609 1.75870653 1.86430377 2.53342394 2.61955191
2.02501335 2.80734633 2.74275085 2.30868721 1.73929273 2.47498226
2.26429481 2.41452436 2.51763478 2.3198168 0.65459257 2.09980943] and Actual value is [
2.4464900000000003, 3.05137, 1.73797, 3.10712, 2.48676, 1.885409999999998, 1.8850099999
9999, 2.5945, 2.1139900000000003, 1.68435, 1.6944, 1.41723, 2.67782, 1.719559999999998,
1.75873, 1.86399, 2.5332, 2.61955, 2.02517999999998, 2.807909999999997, 2.74255, 2.309
19, 1.7393299999999998, 2.4748900000000003, 2.26425, 2.4148400000000003, 2.51767, 2.31945
, 0.6542899999999999, 2.10017]

Mean absolute error:- 0.0002334310257326666

Mean squared error:- 7.980166356989924e-08

Root mean squared error:- 0.0002824918823079687

r2 Score:- 0.9999997010468651

At random state 949 the model performs very well

At random state 949

Training score is

0.9999997033957292

Predicted value is [2.06390364 2.67775748 2.11352445 1.78523336 2.5099082 3.03483761
1.97544122 1.63323936 3.2604308 2.8359501 2.05107839 2.02497563
2.70211712 2.12374024 1.96939352 2.53918093 1.83341733 1.95072369
1.73795327 2.10999513 3.60182382 2.26418308 2.11554818 2.23765808
1.63808702 1.73927894 1.59857183 1.99176847 1.44416964 2.18863114] and Actual value is [
2.06367, 2.67782, 2.1139900000000003, 1.78555, 2.51009, 3.035, 1.9757, 1.633279999999998
, 3.26001, 2.8360000000000003, 2.05125, 2.025179999999998, 2.70201, 2.12367, 1.969609999
999999, 2.5394200000000002, 1.83302, 1.95071, 1.7379900000000001, 2.11032, 3.60214000000
00003, 2.26425, 2.1156900000000003, 2.237409999999997, 1.63794, 1.7393299999999998, 1.59
88799999999999, 1.9917200000000002, 1.44395, 2.18896]

Mean absolute error:- 0.0001950130002023857

Mean squared error:- 5.3457519690776945e-08

Root mean squared error:- 0.0002312088226923379

r2 Score:- 0.9999997860953754

At random state 950 the model performs very well

At random state 950

Training score is

0.9999997228701941

Predicted value is [2.06393988 2.05110916 1.94272327 2.41448502 3.26040772 1.79313302
1.57165656 1.88960176 1.6815527 2.12375511 2.61948765 1.61621833
2.51745503 1.85111966 2.50959409 2.32131174 1.42787928 1.63327755
2.18866594 1.63812713 1.69483118 2.84825471 1.46171146 1.68429623
2.02487187 2.08476096 2.1155519 3.03483914 1.44420262 1.71924213] and Actual value is [
2.06367, 2.05125, 1.942959999999998, 2.414840000000003, 3.26001, 1.79293, 1.5714, 1.889
3099999999998, 1.68135, 2.12367, 2.61955, 1.6158299999999999, 2.517379999999997, 1.851,

2.51011, 2.3214200000000003, 1.42766, 1.6332799999999998, 2.18896, 1.63794, 1.6944, 2.848
48, 1.46181, 1.68435, 2.025, 2.08528, 2.1156900000000003, 3.035, 1.44395, 1.719559999999999
998]

Mean absolute error:- 0.00022457263014272755
Mean squared error:- 6.801351631182455e-08
Root mean squared error:- 0.00026079401126525995
r2 Score:- 0.9999996895146968

At random state 951 the model performs very well

At random state 951

Training score is

0.9999997084161931

Predicted value is [2.08477822 0.65450154 2.44839767 2.51753409 1.68151318 2.26425589
2.30866212 2.84823137 1.63315979 1.7851719 2.59435277 2.18859768
2.23226902 2.04400071 1.46175003 1.88953439 1.88496868 2.20140927
2.32305867 3.26044333 2.50986237 1.9754772 1.46500315 0.89937826
2.06387137 0.67132921 2.80733661 2.75451771 0.98163474 1.80041743] and Actual value is [
2.08528, 0.6542899999999999, 2.44876, 2.5173799999999997, 1.68135, 2.26425, 2.30919, 2.84
848, 1.6332799999999998, 1.78555, 2.5945, 2.18896, 2.2327, 2.0438400000000003, 1.46181, 1
.8893099999999998, 1.8854099999999998, 2.20173, 2.32323, 3.26001, 2.51009, 1.9757, 1.4649
4, 0.89991, 2.06367, 0.67108, 2.8079099999999997, 2.75414, 0.98195, 1.8010099999999998]

Mean absolute error:- 0.0002926921652869933

Mean squared error:- 1.1073831422482724e-07

Root mean squared error:- 0.00033277366816625867

r2 Score:- 0.9999997177580403

At random state 952 the model performs very well

At random state 952

Training score is

0.9999996882107389

Predicted value is [1.76150471 1.21365045 2.46559609 0.67148685 2.59436542 2.53340425
1.68430797 1.58828122 2.02498774 2.06391927 1.69483743 2.20145204
1.96974514 2.12375435 2.50990437 1.62259799 1.85106139 1.75871465
3.60176754 3.10704827 1.75336959 1.57037987 1.59897118 3.10721725
1.89857717 2.86696745 2.8931879 2.09979802 2.37156352 1.84415655] and Actual value is [
1.76145, 1.21305, 2.4657, 0.67108, 2.5945, 2.5332, 1.68435, 1.58782, 2.025179999999998,
2.06367, 1.6944, 2.20173, 1.9699400000000002, 2.12367, 2.51009, 1.62215, 1.851, 1.75873,
3.6021400000000003, 3.10712, 1.7536, 1.57059, 1.59927, 3.1070900000000004, 1.89894, 2.867
12, 2.89319, 2.10017, 2.3711900000000004, 1.84408]

Mean absolute error:- 0.0002268277127515724

Mean squared error:- 7.504676222520224e-08

Root mean squared error:- 0.0002739466412008044

r2 Score:- 0.9999997962775862

At random state 953 the model performs very well

At random state 953

Training score is

0.9999997580811459

Predicted value is [1.86609407 1.41720328 3.60181372 1.62253071 2.20786385 1.75338588
1.95249069 1.80032336 2.32132156 2.13134535 2.59437383 2.12502208
1.88952847 2.0510451 2.26645903 1.34737553 1.87883308 2.67611122
2.83593381 2.20154058 2.50960493 2.0247925 2.09971392 1.44420905
2.23772308 2.67775364 1.95286442 2.79064707 2.06377543 1.87965259] and Actual value is [
1.86565, 1.41723, 3.602140000000003, 1.62215, 2.20857, 1.7536, 1.9521, 1.801009999999999
8, 2.3214200000000003, 2.1309, 2.5945, 2.12466, 1.889309999999998, 2.05125, 2.26646, 1.3
4759, 1.87877, 2.67585, 2.836000000000003, 2.20173, 2.51011, 2.025, 2.10017, 1.44395, 2.
2374099999999997, 2.67782, 1.95335, 2.79094, 2.06367, 1.8799599999999999]

Mean absolute error:- 0.0002808211537036846

Mean squared error:- 1.1080227945208984e-07

Root mean squared error:- 0.0003328697634993149

r2 Score:- 0.9999994942808813

At random state 954 the model performs very well

At random state 954

Training score is
0.9999997263838325
Predicted value is [2.53919244 2.02480239 1.99181541 1.94276652 2.83594879 2.85762506
2.00078791 2.32131376 1.93108534 1.63810316 1.42786274 1.4441843
1.95292832 3.03484302 2.23231978 2.79881468 1.87965659 2.32377024
1.7931612 2.2754525 1.64834821 1.8849957 2.27410129 1.94937915
2.26419725 2.86706691 1.75867793 2.26643524 2.32304212 1.95078198] and Actual value is [
2.5394200000000002, 2.025, 1.9917200000000002, 1.9429599999999998, 2.8360000000000003, 2.
85737, 2.00073, 2.3214200000000003, 1.9312900000000002, 1.63794, 1.42766, 1.44395, 1.9533
5, 3.035, 2.2327, 2.79832, 1.8799599999999999, 2.32407, 1.79293, 2.27513, 1.6488, 1.88540
99999999998, 2.27394, 1.9493900000000002, 2.26425, 2.86712, 1.75873, 2.26646, 2.32323, 1.
95071]

Mean absolute error:- 0.00020268481814162225
Mean squared error:- 5.88867979411168e-08
Root mean squared error:- 0.0002426660252159574
r2 Score:- 0.9999996618258812

At random state 955 the model performs very well

At random state 955

Training score is

0.9999997346255206

Predicted value is [2.27407149 1.59582941 2.09024845 1.59853869 1.94940273 1.8334949
2.50953324 1.63804496 1.34725238 2.79070429 1.95594794 1.42780732
1.96965109 2.11355564 2.5174719 1.75329947 0.89937691 1.85997217
2.24624576 1.26490099 2.11816641 2.46552518 1.86600378 2.84820569
2.26641014 3.10734087 3.10709282 1.97539605 2.49201247 1.923424] and Actual value is [
2.27394, 1.59541, 2.0906599999999997, 1.5988799999999999, 1.9493900000000002, 1.83302, 2.
51011, 1.63794, 1.34759, 2.79094, 1.9563700000000002, 1.42766, 1.9699400000000002, 2.1139
900000000003, 2.5173799999999997, 1.7536, 0.89991, 1.8604, 2.2463900000000003, 1.26462, 2
.11773, 2.4657, 1.86565, 2.84848, 2.26646, 3.1070900000000004, 3.10712, 1.9757, 2.4920400
00000003, 1.92313]

Mean absolute error:- 0.0002770131072818242
Mean squared error:- 1.0076189325328561e-07
Root mean squared error:- 0.00031743013916968506
r2 Score:- 0.9999996228297809

At random state 956 the model performs very well

At random state 956

Training score is

0.9999997591518732

Predicted value is [2.8073668 1.94941436 2.53336717 2.20805987 1.88958189 2.4484451
2.48662674 1.57173106 1.88499854 1.46510004 2.20146415 2.24710764
2.24634653 2.22005014 2.79068625 1.44423598 1.38101734 1.86425553
1.83347356 2.43249766 2.76614668 2.44223158 2.12506819 1.24125196
1.87658844 2.79879699 1.76142131 2.46554869 2.50958244 2.12378742] and Actual value is [
2.8079099999999997, 1.9493900000000002, 2.5332, 2.20857, 1.8893099999999998, 2.44876, 2.4
8676, 1.5714, 1.88540999999998, 1.46494, 2.20173, 2.24729, 2.2463900000000003, 2.21978,
2.79094, 1.44395, 1.38079, 1.86399, 1.83302, 2.43209, 2.76579, 2.44191, 2.12466, 1.24074,
1.8763400000000001, 2.79832, 1.76145, 2.4657, 2.51011, 2.12367]

Mean absolute error:- 0.00028906423825057667
Mean squared error:- 1.0542234908048746e-07
Root mean squared error:- 0.0003246880796710706
r2 Score:- 0.9999994468330854

At random state 957 the model performs very well

At random state 957

Training score is

0.9999997301771502

Predicted value is [1.73826138 1.95599899 1.44414133 2.76618053 2.20790623 2.43851511
2.75456776 2.31984757 0.99839655 1.84415086 2.70219697 2.06392957
1.41709187 3.19107488 2.50965192 2.26648802 1.59861243 1.88526253
2.20150579 2.59440634 2.85761785 1.96941545 2.48650793 2.30873674
3.60187589 2.2754949 2.50981156 2.74280589 1.69487595 1.94267708] and Actual value is [
1.73797, 1.9563700000000002, 1.44395, 2.76579, 2.20857, 2.43872, 2.75414, 2.31945, 0.9989
5, 1.84408, 2.70201, 2.06367, 1.41723, 3.191309999999996, 2.51011, 2.26646, 1.5988799999
99999, 1.8850099999999999, 2.20173, 2.5945, 2.85737, 1.9696099999999999, 2.48676, 2.3091

9, 3.6021400000000003, 2.27513, 2.51009, 2.74255, 1.6944, 1.9429599999999998]

Mean absolute error:- 0.00029254515727715756
Mean squared error:- 1.0496959290463428e-07
Root mean squared error:- 0.000323990112356279
r2 Score:- 0.9999996462811328

At random state 958 the model performs very well
At random state 958
Training score is
0.9999997237929034

Predicted value is [1.4650779 1.99178211 1.95596144 2.11003693 2.20148991 2.20791069
1.63816007 1.8643021 1.78526389 2.50991076 1.21362662 2.79874875
2.61954207 0.65456674 2.43853049 2.02481388 2.30873308 1.9524594
2.02494772 2.24712778 1.84413398 2.23771474 1.57035486 2.05110287
2.21123103 2.517517 2.53342623 2.45190167 2.67774809 0.67147734] and Actual value is [
1.46494, 1.9917200000000002, 1.9563700000000002, 2.11032, 2.20173, 2.20857, 1.63794, 1.86
399, 1.78555, 2.51009, 1.21305, 2.79832, 2.61955, 0.6542899999999999, 2.43872, 2.025, 2.3
0919, 1.9521, 2.025179999999998, 2.24729, 1.84408, 2.237409999999997, 1.57059, 2.05125,
2.21126, 2.517379999999997, 2.5332, 2.451759999999997, 2.67782, 0.67108]

Mean absolute error:- 0.0002469731753720191
Mean squared error:- 8.434848764464591e-08
Root mean squared error:- 0.0002904281109752393
r2 Score:- 0.9999996804237206

At random state 959 the model performs very well
At random state 959
Training score is
0.9999997246049747

Predicted value is [1.73802445 2.37158691 2.59441837 3.17770047 1.94927737 3.60187732
1.38097605 1.95599994 1.8643293 1.58825148 2.51767253 2.24713291
1.44417366 1.71924914 2.31988491 1.63815573 0.99839647 2.74286747
1.21361037 1.64847063 2.49204586 1.86967405 2.44681369 2.45192655
1.5986092 2.53346407 2.85769918 2.7988038 2.20793659 2.20152653] and Actual value is [
1.7379900000000001, 2.3711900000000004, 2.5945, 3.17728, 1.9493900000000002, 3.6021400000
000003, 1.38079, 1.9563700000000002, 1.86399, 1.58782, 2.51767, 2.24729, 1.44395, 1.71955
9999999998, 2.31945, 1.63794, 0.99895, 2.74255, 1.21305, 1.6488, 2.4920400000000003, 1.8
698400000000002, 2.4464900000000003, 2.4517599999999997, 1.5988799999999999, 2.5332, 2.85
737, 2.79832, 2.20857, 2.20173]

Mean absolute error:- 0.00028626503940492785
Mean squared error:- 1.0738724721699044e-07
Root mean squared error:- 0.0003276999347222859
r2 Score:- 0.9999996878327537

At random state 960 the model performs very well
At random state 960
Training score is
0.9999997014901882

Predicted value is [3.19114356 2.67621107 1.96971104 2.44844508 3.1775988 1.94931623
1.94265873 1.87666201 2.32135672 1.75334819 2.21127054 2.43862692
2.5392434 2.23228027 1.2136325 1.34727243 0.67140247 1.57161265
1.88965251 1.73931322 2.48659354 1.73838622 2.75459321 3.08883113
2.63443779 1.78518658 1.46173058 1.5958406 1.88537166 2.49206137] and Actual value is [
3.1913099999999996, 2.67585, 1.9699400000000002, 2.44876, 3.17728, 1.9493900000000002, 1.
942959999999998, 1.8763400000000001, 2.3214200000000003, 1.7536, 2.21126, 2.43872, 2.539
4200000000002, 2.2327, 1.21305, 1.34759, 0.67108, 1.5714, 1.889309999999998, 1.739329999
9999998, 2.48676, 1.73797, 2.75414, 3.08854, 2.6343, 1.78555, 1.46181, 1.59541, 1.8850099
999999999, 2.4920400000000003]

Mean absolute error:- 0.0002539349225396966
Mean squared error:- 8.556171262093625e-08
Root mean squared error:- 0.00029250933766452014
r2 Score:- 0.9999997484970142

At random state 961 the model performs very well
At random state 961

Training score is
0.9999996828815604
Predicted value is [1.61626279 1.69495157 3.03483343 2.89330105 3.17762324 3.05116717
1.87663236 2.8669859 3.08891961 2.53917897 3.6018605 2.12509345
2.6344339 2.41452058 1.94938586 2.24715376 1.63330612 1.3473775
1.86611401 2.76621687 2.24633389 2.02489176 2.43854783 1.46503267
1.86438981 1.73801487 2.70222147 2.20148505 2.75460704 1.76152738] and Actual value is [
1.6158299999999999, 1.6944, 3.035, 2.89319, 3.17728, 3.05137, 1.8763400000000001, 2.86712
, 3.08854, 2.5394200000000002, 3.6021400000000003, 2.12466, 2.6343, 2.4148400000000003, 1
.9493900000000002, 2.24729, 1.633279999999998, 1.34759, 1.86565, 2.76579, 2.246390000000
0003, 2.025, 2.43872, 1.46494, 1.86399, 1.7379900000000001, 2.70201, 2.20173, 2.75414, 1
.76145]

Mean absolute error:- 0.00023820098252353984

Mean squared error:- 7.955072714097761e-08

Root mean squared error:- 0.0002820473845668093

r2 Score:- 0.9999997596969793

At random state 962 the model performs very well

At random state 962

Training score is

0.9999996934196195

Predicted value is [2.74280758 1.85999584 2.26424114 2.47498334 2.49200412 1.34735836
3.60180852 1.38095082 2.83591481 2.32308216 1.63330269 2.86698233
1.78526789 1.63817119 1.61623198 1.76149473 1.79309785 0.89938376
1.57035344 2.53342809 2.46517272 1.952515 1.95596843 1.94272009
2.20787904 2.4384977 0.67146385 1.8643463 1.7586521 2.53915474] and Actual value is [
2.74255, 1.8604, 2.26425, 2.4748900000000003, 2.4920400000000003, 1.34759, 3.602140000000
0003, 1.38079, 2.8360000000000003, 2.32323, 1.6332799999999998, 2.86712, 1.78555, 1.63794
, 1.6158299999999999, 1.76145, 1.79293, 0.89991, 1.57059, 2.5332, 2.4653099999999997, 1.9
521, 1.9563700000000002, 1.9429599999999998, 2.20857, 2.43872, 0.67108, 1.86399, 1.75873,
2.5394200000000002]

Mean absolute error:- 0.0002408747761701598

Mean squared error:- 8.249747597013376e-08

Root mean squared error:- 0.00028722373852126804

r2 Score:- 0.9999997712946832

At random state 963 the model performs very well

At random state 963

Training score is

0.9999997232647085

Predicted value is [1.87668241 2.51766539 1.73836747 1.42779787 2.75458073 1.86611488
1.85102419 2.53342398 1.76153815 1.71930299 2.1135038 1.83344478
1.24122523 2.43858903 2.24630267 2.86691679 2.18863572 2.23228278
1.61625134 1.4172122 1.95592398 2.70217215 0.8994627 2.12375817
1.99176639 1.92341165 1.68164766 1.96946765 0.67143122 2.74281008] and Actual value is [
1.8763400000000001, 2.51767, 1.73797, 1.42766, 2.75414, 1.86565, 1.851, 2.5332, 1.76145,
1.719559999999998, 2.1139900000000003, 1.83302, 1.24074, 2.43872, 2.2463900000000003, 2.
86712, 2.18896, 2.2327, 1.6158299999999999, 1.41723, 1.9563700000000002, 2.70201, 0.89991
, 2.12367, 1.9917200000000002, 1.92313, 1.68135, 1.9696099999999999, 0.67108, 2.74255]

Mean absolute error:- 0.00026342146188846526

Mean squared error:- 9.396773107389342e-08

Root mean squared error:- 0.0003065415650020294

r2 Score:- 0.9999996482197917

At random state 964 the model performs very well

At random state 964

Training score is

0.9999997097353193

Predicted value is [1.24122609 2.7546088 1.95255552 1.83348952 2.26419595 2.67621959
1.75334992 1.94940877 2.83597227 3.26042918 2.11001331 1.62262875
2.5177159 0.67145863 1.381003 2.41449872 1.96971877 1.46507214
1.88523046 2.67779611 2.76622084 2.45367769 1.68429683 1.93120236
1.76150591 1.26502505 1.96940214 1.73934934 2.48665773 2.31984296] and Actual value is [
1.24074, 2.75414, 1.9521, 1.83302, 2.26425, 2.67585, 1.7536, 1.9493900000000002, 2.836000
0000000003, 3.26001, 2.11032, 1.62215, 2.51767, 0.67108, 1.38079, 2.4148400000000003, 1.9
699400000000002, 1.46494, 1.8850099999999999, 2.67782, 2.76579, 2.4537299999999997, 1.684

35, 1.9312900000000002, 1.76145, 1.26462, 1.9696099999999999, 1.7393299999999998, 2.48676
, 2.31945]

Mean absolute error:- 0.00023962171475185127
Mean squared error:- 8.611875023285008e-08
Root mean squared error:- 0.00029345996359444006
r2 Score:- 0.9999997243287354

At random state 965 the model performs very well

At random state 965

Training score is

0.9999997309406875

Predicted value is [1.6380742 1.95848755 2.51747449 1.59576934 1.78522958 1.68432508
2.09030001 1.57167818 2.50955607 1.24121698 1.85110783 1.2136044
1.87661055 1.87878068 2.24710865 3.03484098 2.11814567 1.73929854
1.95072518 2.11353844 2.11002466 2.5392023 2.61952004 2.46512229
1.97543882 2.85758764 0.98172029 2.11554767 2.20145798 1.84414702] and Actual value is [
1.63794, 1.95812, 2.5173799999999997, 1.59541, 1.78555, 1.68435, 2.0906599999999997, 1.57
14, 2.51011, 1.24074, 1.851, 1.21305, 1.8763400000000001, 1.87877, 2.24729, 3.035, 2.1177
3, 1.7393299999999998, 1.95071, 2.1139900000000003, 2.11032, 2.5394200000000002, 2.61955,
2.4653099999999997, 1.9757, 2.85737, 0.98195, 2.1156900000000003, 2.20173, 1.84408]

Mean absolute error:- 0.00023627577406087525

Mean squared error:- 8.006581441331576e-08

Root mean squared error:- 0.0002829590331007578

r2 Score:- 0.9999996241031293

At random state 966 the model performs very well

At random state 966

Training score is

0.9999997256361314

Predicted value is [1.6332225 1.88956232 1.80036003 1.97546542 2.22000084 3.05125123
2.0249255 2.11350935 1.94930763 1.78519843 2.23766411 2.45363267
2.20144463 0.89932243 1.96970464 1.69479618 3.10731245 0.98171059
2.30871961 1.92334608 2.4651736 1.24108855 1.71921211 1.57031222
2.26648052 1.5989124 2.48660978 1.75866377 1.34725117 1.63807175] and Actual value is [
1.6332799999999998, 1.8893099999999998, 1.8010099999999998, 1.9757, 2.21978, 3.05137, 2.0
2517999999999998, 2.1139900000000003, 1.9493900000000002, 1.78555, 2.2374099999999997, 2.4
5372999999999997, 2.20173, 0.89991, 1.9699400000000002, 1.6944, 3.107090000000004, 0.9819
5, 2.30919, 1.92313, 2.4653099999999997, 1.24074, 1.7195599999999998, 1.57059, 2.26646, 1
.59927, 2.48676, 1.75873, 1.34759, 1.63794]

Mean absolute error:- 0.00026276986555889094

Mean squared error:- 9.156839732254248e-08

Root mean squared error:- 0.0003026027054118031

r2 Score:- 0.9999996297147183

At random state 967 the model performs very well

At random state 967

Training score is

0.9999997238734525

Predicted value is [1.87969265 2.23232362 1.24121773 3.1071989 1.68160999 1.73836811
3.08878461 2.26646039 2.1313908 2.50958269 2.32305457 2.43857783
2.75452261 1.34733504 2.45184639 1.89857951 2.12374459 2.24712701
2.83596874 2.79887247 1.21365957 2.21123669 1.44418955 1.42787131
2.3238111 2.5099634 3.10707381 2.51763014 1.95298215 2.45363108] and Actual value is [
1.879959999999999, 2.2327, 1.24074, 3.107090000000004, 1.68135, 1.73797, 3.08854, 2.266
46, 2.1309, 2.51011, 2.32323, 2.43872, 2.75414, 1.34759, 2.451759999999997, 1.89894, 2.1
2367, 2.24729, 2.836000000000003, 2.79832, 1.21305, 2.21126, 1.44395, 1.42766, 2.32407,
2.51009, 3.10712, 2.51767, 1.95335, 2.453729999999997]

Mean absolute error:- 0.00024656563803580797

Mean squared error:- 9.007467068970219e-08

Root mean squared error:- 0.0003001244253467255

r2 Score:- 0.9999996841290397

At random state 968 the model performs very well

At random state 968

Training score is
0.9999997098889415
Predicted value is [2.41451245 1.85109582 2.27550889 1.94275891 1.73798671 1.87880112
3.1072888 1.95075967 1.38096964 1.86608782 2.32376443 1.44420263
3.60181805 2.32308944 2.79064118 1.76142743 2.2112223 1.86434324
1.93108834 1.24113545 1.99182919 2.51749257 1.57036858 1.59899346
2.53341548 1.73927168 2.20790695 1.8441219 1.34738434 1.88524607] and Actual value is [
2.4148400000000003, 1.851, 2.27513, 1.9429599999999998, 1.7379900000000001, 1.87877, 3.10
70900000000004, 1.95071, 1.38079, 1.86565, 2.32407, 1.44395, 3.6021400000000003, 2.32323,
2.79094, 1.76145, 2.21126, 1.86399, 1.9312900000000002, 1.24074, 1.9917200000000002, 2.51
737999999999997, 1.57059, 1.59927, 2.5332, 1.7393299999999998, 2.20857, 1.84408, 1.34759,
1.8850099999999999]

Mean absolute error:- 0.00021246785135171643
Mean squared error:- 6.667940891054817e-08
Root mean squared error:- 0.0002582235638173793
r2 Score:- 0.9999997444330061

At random state 969 the model performs very well

At random state 969

Training score is
0.9999997430870096

Predicted value is [2.80743506 1.41718768 1.46181621 2.50990586 1.88505795 1.62261583
2.44220889 2.45366304 1.85113294 1.63819417 2.53916323 2.31988083
1.87661642 1.95074768 1.95260296 2.09983426 1.68427714 2.45191323
2.11817657 2.32129419 2.1886638 2.2200641 2.27553775 3.10740611
2.84826098 1.24116201 2.8576037 2.76620725 1.61620564 1.89857144] and Actual value is [
2.8079099999999997, 1.41723, 1.46181, 2.51009, 1.8854099999999998, 1.62215, 2.44191, 2.45
372999999999997, 1.851, 1.63794, 2.5394200000000002, 2.31945, 1.8763400000000001, 1.95071,
1.9521, 2.10017, 1.68435, 2.4517599999999997, 2.11773, 2.3214200000000003, 2.18896, 2.219
78, 2.27513, 3.1070900000000004, 2.84848, 1.24074, 2.85737, 2.76579, 1.6158299999999999,
1.89894]

Mean absolute error:- 0.0002752556694150791
Mean squared error:- 9.6126789822968e-08
Root mean squared error:- 0.00031004320638093006
r2 Score:- 0.9999995634651049

At random state 970 the model performs very well

At random state 970

Training score is
0.9999997440266265

Predicted value is [2.22002744 2.50986227 2.06389037 1.57034629 1.87657774 2.1250543
1.46170514 3.10731608 1.87964282 1.42777674 2.24711017 2.37155475
2.59438474 1.75870924 2.49201634 2.18860795 1.3472755 1.94932507
1.753305 2.2014628 2.50960203 1.95298289 1.85106621 2.09979735
1.94269471 1.93111077 2.51769567 2.11352646 2.7427733 2.32376515] and Actual value is [
2.21978, 2.51009, 2.06367, 1.57059, 1.8763400000000001, 2.12466, 1.46181, 3.1070900000000
004, 1.879959999999999, 1.42766, 2.24743, 2.371190000000004, 2.5945, 1.75873, 2.4920400
000000003, 2.18896, 1.34759, 1.949390000000002, 1.7536, 2.20173, 2.51011, 1.95335, 1.851
, 2.10017, 1.942959999999998, 1.9312900000000002, 2.51767, 2.1139900000000003, 2.74255,
2.32407]

Mean absolute error:- 0.00024166364210549408
Mean squared error:- 7.4711881580567e-08
Root mean squared error:- 0.0002733347427250458
r2 Score:- 0.9999995247032727

At random state 971 the model performs very well

At random state 971

Training score is
0.999999738818188

Predicted value is [1.5716317 2.79880485 2.2471305 2.43247176 2.11815401 2.50994164
2.74279774 2.45185817 2.44684929 2.24712154 1.85111148 1.73928449
2.20148929 1.42783845 1.88957262 2.20799183 2.0440392 1.92342442
2.63446512 1.94940731 2.32309099 2.12374442 3.10734366 2.23233387
2.02497424 1.46508013 3.03487096 2.27549179 2.2463003 1.7852475] and Actual value is [
1.5714, 2.79832, 2.24729, 2.43209, 2.11773, 2.51009, 2.74255, 2.451759999999997, 2.44649
0000000003, 2.24743, 1.851, 1.739329999999998, 2.20173, 1.42766, 1.889309999999998, 2.

20857, 2.0438400000000003, 1.92313, 2.6343, 1.9493900000000002, 2.32323, 2.12367, 3.10709
0000000004, 2.2327, 2.025179999999998, 1.46494, 3.035, 2.27513, 2.2463900000000003, 1.7
8555]

Mean absolute error:- 0.00023329872610758546
Mean squared error:- 7.169266875702514e-08
Root mean squared error:- 0.00026775486691566435
r2 Score:- 0.9999995702707885

At random state 972 the model performs very well

At random state 972

Training score is

0.9999997253066998

Predicted value is [1.87969305 2.6195744 1.63812915 1.44426199 2.84820838 2.79055582
1.85115663 2.4864837 2.24709732 2.02498161 2.80734309 2.12376772
1.88949812 1.99178646 2.23776278 2.24181515 1.46511738 2.70208312
1.64836902 2.04408517 2.45363135 2.46514007 1.88527522 1.21354426
2.21999865 1.93104554 2.02485502 2.5176796 0.98171632 2.09019752] and Actual value is [
1.879959999999999, 2.61955, 1.63794, 1.44395, 2.84848, 2.79094, 1.851, 2.48676, 2.24743,
2.025179999999998, 2.807909999999997, 2.12367, 1.889309999999998, 1.9917200000000002,
2.237409999999997, 2.24173, 1.46494, 2.70201, 1.6488, 2.0438400000000003, 2.453729999999
997, 2.465309999999997, 1.885009999999999, 1.21305, 2.21978, 1.9312900000000002, 2.025
, 2.51767, 0.98195, 2.090659999999997]

Mean absolute error:- 0.00023459927729700217

Mean squared error:- 7.375913499964429e-08

Root mean squared error:- 0.00027158633065683604

r2 Score:- 0.9999996526628576

At random state 973 the model performs very well

At random state 973

Training score is

0.9999997410381288

Predicted value is [1.86966936 2.32308202 1.95251972 2.50957627 2.12510956 2.18861194
2.74277743 2.2462885 2.11554879 3.19110545 1.57163561 1.84414933
2.46511061 1.73798078 1.59902129 2.06391791 1.86423192 2.10999503
1.73929272 2.63443572 2.05112478 1.78522663 1.88524434 2.04405073
2.43245947 1.79311435 1.95073047 1.94274838 1.68158305 1.97541938] and Actual value is [
1.8698400000000002, 2.32323, 1.9521, 2.51011, 2.12466, 2.18896, 2.74255, 2.24639000000000
03, 2.1156900000000003, 3.1913099999999996, 1.5714, 1.84408, 2.465309999999997, 1.737990
0000000001, 1.59927, 2.06367, 1.86399, 2.11032, 1.739329999999998, 2.6343, 2.05125, 1.78
555, 1.885009999999999, 2.0438400000000003, 2.43209, 1.79293, 1.95071, 1.942959999999999
8, 1.68135, 1.9757]

Mean absolute error:- 0.00022292248565204028

Mean squared error:- 6.449509448579808e-08

Root mean squared error:- 0.000253958844078717

r2 Score:- 0.99999949639365

At random state 974 the model performs very well

At random state 974

Training score is

0.9999997274743277

Predicted value is [3.2604784 2.48662098 2.4518822 2.13140532 1.75872739 2.76614645
2.67780452 2.05103956 1.58829749 1.63814411 2.06389142 1.73929635
1.94276649 3.60184399 2.82363841 2.11356757 1.86431728 2.26423253
1.44421523 2.43246449 2.11814383 1.87968676 1.95298384 2.32379362
2.46560529 2.45365858 1.26500314 1.59858684 1.92339825 1.95075956] and Actual value is [
3.26001, 2.48676, 2.451759999999997, 2.1309, 1.75873, 2.76579, 2.67782, 2.05125, 1.58782
, 1.63794, 2.06367, 1.739329999999998, 1.942959999999998, 3.6021400000000003, 2.82334,
2.1139900000000003, 1.86399, 2.26425, 1.44395, 2.43209, 2.11773, 1.879959999999999, 1.95
335, 2.32407, 2.4657, 2.453729999999997, 1.26462, 1.598879999999999, 1.92313, 1.95071]

Mean absolute error:- 0.0002480429300348863

Mean squared error:- 8.295287776107262e-08

Root mean squared error:- 0.00028801541236724227

r2 Score:- 0.9999996807635438

At random state 975 the model performs very well
At random state 975
Training score is
0.9999997482995154
Predicted value is [2.37164386 2.00080731 1.59582122 1.71925599 1.83338083 2.80733864
2.61962779 2.4921206 2.08478673 1.73838705 1.78521471 1.58832484
2.12377295 2.50983695 1.79313402 3.10705673 2.45363786 1.86608948
2.46560293 2.51758468 1.95295496 3.19111108 1.76140368 1.86418565
1.88498818 1.9917371 2.45189913 2.63440996 2.3086707 2.475015] and Actual value is [
2.3711900000000004, 2.00073, 1.59541, 1.7195999999999998, 1.83302, 2.8079099999999997, 2.
61955, 2.4920400000000003, 2.08528, 1.73797, 1.78555, 1.58782, 2.12367, 2.51009, 1.79293,
3.10712, 2.4537299999999997, 1.86565, 2.4657, 2.5173799999999997, 1.95335, 3.191309999999
9996, 1.76145, 1.86399, 1.8854099999999998, 1.9917200000000002, 2.4517599999999997, 2.634
3, 2.30919, 2.4748900000000003]
Mean absolute error:- 0.0002570771467755491
Mean squared error:- 9.438136095009785e-08
Root mean squared error:- 0.0003072154959472224
r2 Score:- 0.9999994826255859

At random state 976 the model performs very well
At random state 976
Training score is
0.9999996970822118
Predicted value is [1.89854202 1.88951772 0.98169227 2.23775494 2.18865384 2.13139859
3.26049296 2.37159693 1.41718151 0.67135565 1.75868346 1.68154598
2.11354767 2.85764468 1.95293886 1.88525986 1.64836063 2.67615059
2.84827437 1.3473205 1.96971174 1.79314624 2.83598564 2.79074453
3.60187435 2.74279556 2.44845509 1.9694509 2.26648057 2.09977399] and Actual value is [
1.89894, 1.8893099999999998, 0.98195, 2.2374099999999997, 2.18896, 2.1309, 3.26001, 2.371
1900000000004, 1.41723, 0.67108, 1.75873, 1.68135, 2.1139900000000003, 2.85737, 1.95335,
1.8850099999999999, 1.6488, 2.67585, 2.84848, 1.34759, 1.9699400000000002, 1.79293, 2.836
0000000000003, 2.79094, 3.602140000000003, 2.74255, 2.44876, 1.9696099999999999, 2.26646
, 2.10017]
Mean absolute error:- 0.0002702967444343211
Mean squared error:- 8.971948490534131e-08
Root mean squared error:- 0.0002995321099737745
r2 Score:- 0.9999997717236446

At random state 977 the model performs very well
At random state 977
Training score is
0.9999997380948947
Predicted value is [2.12506178 1.8643194 2.53342086 1.59857394 2.10995772 1.80039536
2.86704498 2.43850899 1.99180797 2.00076596 1.88960062 1.97544582
0.67137964 2.3237699 2.76619142 2.46557536 2.798788 1.85106569
2.02485225 2.04398489 2.084743 1.41715424 1.75335066 1.94274192
3.26046986 1.73798322 2.24707611 2.24184072 1.86962035 2.754589] and Actual value is [
2.12466, 1.86399, 2.5332, 1.5988799999999999, 2.11032, 1.8010099999999998, 2.86712, 2.438
72, 1.9917200000000002, 2.00073, 1.8893099999999998, 1.9757, 0.67108, 2.32407, 2.76579, 2
.4657, 2.79832, 1.851, 2.025, 2.0438400000000003, 2.08528, 1.41723, 1.7536, 1.94295999999
9998, 3.26001, 1.7379900000000001, 2.24743, 2.24173, 1.8698400000000002, 2.75414]
Mean absolute error:- 0.00026073265846576397
Mean squared error:- 9.183461025070049e-08
Root mean squared error:- 0.00030304225819297953
r2 Score:- 0.9999996173736746

At random state 978 the model performs very well
At random state 978
Training score is
0.9999997199108556
Predicted value is [2.51767551 0.89934094 2.46565778 2.37162497 1.73807615 2.08470272
1.61620336 2.45361384 1.59888717 2.06382535 1.88528149 2.02490798
1.80028188 1.99180297 2.00073387 1.73830939 1.63816963 2.27401443
2.76611982 1.95075234 1.84412535 2.61957029 3.60184767 2.2665408
2.83593 2.43852713 2.86702274 1.86969423 2.51754722 2.24189025] and Actual value is [
2.51767, 0.89991, 2.4657, 2.371190000000004, 1.7379900000000001, 2.08528, 1.615829999999

9999, 2.4537299999999997, 1.59927, 2.06367, 1.8850099999999999, 2.0251799999999998, 1.801009999999998, 1.9917200000000002, 2.00073, 1.73797, 1.63794, 2.27394, 2.76579, 1.95071, 1.84408, 2.61955, 3.6021400000000003, 2.26646, 2.8360000000000003, 2.43872, 2.86712, 1.8698400000000002, 2.5173799999999997, 2.24173]

Mean absolute error:- 0.00021297099466244623
Mean squared error:- 7.895975104441569e-08
Root mean squared error:- 0.0002809977776503147
r2 Score:- 0.9999996861945816

At random state 979 the model performs very well

At random state 979

Training score is
0.999999692946734

Predicted value is [2.24628309 0.98175198 1.96973552 1.88500107 1.95253624 2.18862984 2.75455463 0.67140613 2.84824186 1.97546285 2.82361253 2.70211103 2.4145025 2.45368283 2.5392045 1.73927299 2.79065748 3.08883296 2.11558808 1.73830112 3.05120937 1.63329926 1.93109804 2.26422902 2.44219298 2.67614338 2.20795962 1.95846881 0.65448304 2.23768163] and Actual value is [2.2463900000000003, 0.98195, 1.9699400000000002, 1.8854099999999998, 1.9521, 2.18896, 2.75414, 0.67108, 2.84848, 1.9757, 2.82334, 2.70201, 2.4148400000000003, 2.453729999999997, 2.5394200000000002, 1.7393299999999998, 2.79094, 3.08854, 2.1156900000000003, 1.73797, 3.05137, 1.6332799999999998, 1.9312900000000002, 2.26425, 2.44191, 2.67585, 2.20857, 1.95812, 0.6542899999999999, 2.2374099999999997]

Mean absolute error:- 0.00024443783523695844
Mean squared error:- 7.736996996764299e-08
Root mean squared error:- 0.0002781545792677931
r2 Score:- 0.999997903511016

At random state 980 the model performs very well

At random state 980

Training score is
0.999997071916286

Predicted value is [2.26645203 2.53915594 1.89853537 2.61949119 2.37153271 2.50990102 2.46511938 0.99844125 2.26422982 1.79314843 2.51765337 1.93106826 1.76140335 1.97548818 2.24704853 1.44421902 2.05100897 2.44683049 1.46508834 2.41448075 3.19105298 2.24630428 1.7379514 1.6814872 1.86967467 1.63816745 3.60178064 2.43241781 2.31985053 1.68426413] and Actual value is [2.26646, 2.5394200000000002, 1.89894, 2.61955, 2.3711900000000004, 2.51009, 2.4653099999999997, 0.99895, 2.26425, 1.79293, 2.51767, 1.9312900000000002, 1.76145, 1.9757, 2.24743, 1.44395, 2.05125, 2.4464900000000003, 1.46494, 2.4148400000000003, 3.1913099999999996, 2.2463900000000003, 1.7379900000000001, 1.68135, 1.8698400000000002, 1.63794, 3.602140000000003, 2.43209, 2.31945, 1.68435]

Mean absolute error:- 0.00021754873978675112
Mean squared error:- 6.500266662385846e-08
Root mean squared error:- 0.00025495620530565337
r2 Score:- 0.999997549767216

At random state 981 the model performs very well

At random state 981

Training score is
0.999997487066947

Predicted value is [1.86967993 2.13134678 2.82370183 1.26498826 1.88525566 1.61623671 2.12375281 1.42783357 1.80032618 1.88503069 2.47503507 0.89936183 1.59890034 1.73925359 2.11356631 2.24180255 2.74285268 1.57156684 1.59571461 1.68429534 2.26650499 2.50991829 1.95285569 1.76147611 2.45190468 1.95595795 2.31980038 2.12502056 1.97549492 2.86698376] and Actual value is [1.8698400000000002, 2.1309, 2.82334, 1.26462, 1.8850099999999999, 1.6158299999999999, 2.12367, 1.42766, 1.8010099999999998, 1.8854099999999998, 2.4748900000000003, 0.89991, 1.59927, 1.7393299999999998, 2.1139900000000003, 2.24173, 2.74255, 1.5714, 1.59541, 1.68435, 2.26646, 2.51009, 1.95335, 1.76145, 2.4517599999999997, 1.9563700000000002, 2.31945, 2.12466, 1.9757, 2.86712]

Mean absolute error:- 0.00027064257070874933
Mean squared error:- 1.0035572401414155e-07
Root mean squared error:- 0.0003167897157644824
r2 Score:- 0.9999994987304113

At random state 982 the model performs very well

At random state 982

Training score is

0.9999997244694723

Predicted value is [2.08474884 2.11350057 2.51758536 1.64841351 2.4651541 2.49201398
1.85103388 1.46505844 3.10703968 1.21364843 2.41449774 2.80736
1.68430669 0.67143313 1.73835617 2.21999566 2.26646877 1.61622179
1.94934539 1.75335375 1.93113524 2.74276255 2.18865184 1.59894539
1.95071886 1.84414111 2.27407558 1.85996622 2.59435827 2.89316932] and Actual value is [
2.08528, 2.1139900000000003, 2.51767, 1.6488, 2.4653099999999997, 2.4920400000000003, 1.8
51, 1.46494, 3.10712, 1.21305, 2.4148400000000003, 2.8079099999999997, 1.68435, 0.67108,
1.73797, 2.21978, 2.26646, 1.615829999999999, 1.9493900000000002, 1.7536, 1.931290000000
0002, 2.74255, 2.18896, 1.59927, 1.95071, 1.84408, 2.27394, 1.8604, 2.5945, 2.89319]

Mean absolute error:- 0.0002296161852799313

Mean squared error:- 8.471118233649111e-08

Root mean squared error:- 0.00029105185506450755

r2 Score:- 0.9999996827265444

At random state 983 the model performs very well

At random state 983

Training score is

0.9999997639439723

Predicted value is [2.75452632 2.08470462 2.0439983 2.12502569 1.9528666 2.79079329
1.73800757 2.18866606 2.32131904 2.70212307 2.4384743 2.79884423
2.59440695 1.97540508 2.11002045 2.51744387 1.95844077 1.83342948
1.64833882 2.82371015 2.53921691 1.42788796 2.4324212 1.86424378
3.10713708 2.02488812 2.09972553 1.95081008 2.24707058 1.80033045] and Actual value is [
2.75414, 2.08528, 2.0438400000000003, 2.12466, 1.95335, 2.79094, 1.737990000000001, 2.18
896, 2.3214200000000003, 2.70201, 2.43872, 2.79832, 2.5945, 1.9757, 2.11032, 2.5173799999
999997, 1.95812, 1.83302, 1.6488, 2.82334, 2.539420000000002, 1.42766, 2.43209, 1.86399,
3.10712, 2.025179999999998, 2.10017, 1.95071, 2.24743, 1.801009999999998]

Mean absolute error:- 0.00028775969702931427

Mean squared error:- 1.1000781621362174e-07

Root mean squared error:- 0.0003316742622116189

r2 Score:- 0.9999993116831474

At random state 984 the model performs very well

At random state 984

Training score is

0.9999997005994551

Predicted value is [1.63321412 1.44420649 2.45361611 2.49201805 1.85111235 1.38100158
1.73930023 1.95299728 2.51765448 1.24119055 2.50959142 1.83345823
1.86425863 0.98173838 1.68430146 3.10725567 2.32306395 1.42789013
2.00076408 1.97547385 1.88522691 1.59859582 2.1237605 3.1775985
2.70215215 3.10712431 2.6761798 2.30871064 2.11355859 1.76143667] and Actual value is [
1.633279999999998, 1.44395, 2.453729999999997, 2.4920400000000003, 1.851, 1.38079, 1.73
93299999999998, 1.95335, 2.51767, 1.24074, 2.51011, 1.83302, 1.86399, 0.98195, 1.68435, 3
.1070900000000004, 2.32323, 1.42766, 2.00073, 1.9757, 1.885009999999999, 1.5988799999999
999, 2.12367, 3.17728, 2.70201, 3.10712, 2.67585, 2.30919, 2.1139900000000003, 1.76145]

Mean absolute error:- 0.00020829482524879298

Mean squared error:- 6.641935032454824e-08

Root mean squared error:- 0.0002577195187108424

r2 Score:- 0.9999997813395775

At random state 985 the model performs very well

At random state 985

Training score is

0.9999997563095131

Predicted value is [2.61956299 1.99179319 2.08466235 2.51768539 2.49204929 1.73804741
2.43848786 2.11355105 2.20785811 2.63451498 2.85767329 0.89930143
2.44848988 1.87879774 1.57027588 2.45365361 1.62247554 2.89326071
1.71924079 2.82371986 1.68423806 1.80023819 1.21358545 1.97548581
1.59855681 2.12370958 2.51752784 2.02485905 2.43238413 2.37158783] and Actual value is [
2.61955, 1.991720000000002, 2.08528, 2.51767, 2.4920400000000003, 1.737990000000001, 2.

43872, 2.1139900000000003, 2.20857, 2.6343, 2.85737, 0.89991, 2.44876, 1.87877, 1.57059, 2.4537299999999997, 1.62215, 2.89319, 1.7195599999999998, 2.82334, 1.68435, 1.8010099999999998, 1.21305, 1.9757, 1.5988799999999999, 2.12367, 2.5173799999999997, 2.0251799999999998, 2.43209, 2.3711900000000004]

Mean absolute error:- 0.0002745446618011386

Mean squared error:- 1.2014753168903167e-07

Root mean squared error:- 0.00034662303975505104

r2 Score:- 0.9999994798339841

At random state 986 the model performs very well

At random state 986

Training score is

0.999997313202629

Predicted value is [1.94270068 2.32310854 3.10717138 2.76623465 1.4615942 2.09028528 2.12373516 0.99837339 2.44850769 2.82362624 2.45191641 1.68426438 1.78521608 0.98166824 1.8796497 1.41708376 1.83348908 2.37160685 2.67775888 2.13137484 1.79306721 1.85994104 2.02489402 2.26650773 2.18862138 1.9525316 2.06399528 2.75460698 3.08891614 1.59577567] and Actual value is [1.9429599999999998, 2.32323, 3.10712, 2.76579, 1.46181, 2.0906599999999997, 2.12367, 0.99895, 2.44876, 2.82334, 2.4517599999999997, 1.68435, 1.78555, 0.98195, 1.8799599999999999, 1.41723, 1.83302, 2.3711900000000004, 2.67782, 2.1309, 1.79293, 1.8604, 2.025, 2.26646, 2.18896, 1.9521, 2.06367, 2.75414, 3.08854, 1.59541]

Mean absolute error:- 0.00028126590013297645

Mean squared error:- 1.0193432625945423e-07

Root mean squared error:- 0.00031927155566923625

r2 Score:- 0.9999996321062132

At random state 987 the model performs very well

At random state 987

Training score is

0.999996819021553

Predicted value is [3.60178662 2.2642484 2.220027 1.63814806 2.84824776 2.37155522 3.03481194 1.96942733 1.75333309 2.41449338 1.99176551 2.11352 0.65454467 1.86968539 2.79877925 3.1775579 1.79312627 2.00076162 1.24119874 1.57037209 2.79071103 1.88960227 2.50990028 2.32130464 2.48663446 1.34737711 2.11556652 2.51763289 2.53339758 1.86431052] and Actual value is [3.6021400000000003, 2.26425, 2.21978, 1.63794, 2.84848, 2.3711900000000004, 3.035, 1.969609999999999, 1.7536, 2.4148400000000003, 1.9917200000000002, 2.1139900000000003, 0.654289999999999, 1.8698400000000002, 2.79832, 3.17728, 1.79293, 2.00073, 1.24074, 1.57059, 2.79094, 1.889309999999998, 2.51009, 2.3214200000000003, 2.48676, 1.34759, 2.1156900000000003, 2.51767, 2.5332, 1.86399]

Mean absolute error:- 0.0002267211266510194

Mean squared error:- 6.601824749903134e-08

Root mean squared error:- 0.0002569401632657521

r2 Score:- 0.9999998167908299

At random state 988 the model performs very well

At random state 988

Training score is

0.999996863651118

Predicted value is [2.51748563 2.32131437 2.44843743 0.65450638 3.10709487 2.44682778 3.26042554 2.85762795 0.67147264 2.53343759 2.32374988 2.84827325 2.20789194 2.86699237 2.67778483 2.23765974 1.78525969 2.20149364 1.86435363 2.43852548 2.76612889 2.53917004 1.61626223 3.19106164 2.09025992 1.8796556 2.21123225 1.68154771 1.96976633 1.57163179] and Actual value is [2.5173799999999997, 2.3214200000000003, 2.44876, 0.6542899999999999, 3.10712, 2.44649000000003, 3.26001, 2.85737, 0.67108, 2.5332, 2.32407, 2.84848, 2.20857, 2.86712, 2.67782, 2.2374099999999997, 1.78555, 2.20173, 1.86399, 2.43872, 2.76579, 2.5394200000000002, 1.6158299999999999, 3.1913099999999996, 2.0906599999999997, 1.8799599999999999, 2.21126, 1.68135, 1.9699400000000002, 1.5714]

Mean absolute error:- 0.0002574661769237263

Mean squared error:- 8.450465052650336e-08

Root mean squared error:- 0.0002906968361136794

r2 Score:- 0.999997774500575

At random state 989 the model performs very well
At random state 989
Training score is
0.9999997601024851
Predicted value is [2.11555307 2.70214831 1.86610143 1.64840018 1.8849969 2.53919358
1.97545136 2.44685182 2.61948313 1.79318807 1.24118938 1.73929637
1.9529537 2.24703021 2.05106507 2.08474718 2.51765285 2.37150036
1.598572 2.12376922 2.06391797 2.0997801 1.3810277 2.45362221
1.63812897 1.96934725 2.51743927 1.8334322 2.11813805 1.86429808] and Actual value is [
2.1156900000000003, 2.70201, 1.86565, 1.6488, 1.885409999999998, 2.5394200000000002, 1.9
757, 2.4464900000000003, 2.61955, 1.79293, 1.24074, 1.7393299999999998, 1.95335, 2.24743,
2.05125, 2.08528, 2.51767, 2.371190000000004, 1.598879999999999, 2.12367, 2.06367, 2.10
017, 1.38079, 2.453729999999997, 1.63794, 1.969609999999999, 2.517379999999997, 1.8330
2, 2.11773, 1.86399]

Mean absolute error:- 0.0002685222986556823
Mean squared error:- 9.159523831765228e-08
Root mean squared error:- 0.0003026470523855342
r2 Score:- 0.9999992900418747

At random state 990 the model performs very well
At random state 990
Training score is
0.9999997017117676
Predicted value is [1.86969958 1.88954098 1.88498436 1.95074268 2.47497513 1.41716269
1.93109838 2.49205559 1.76141608 2.53924416 2.74283191 3.03490544
1.87967234 1.4617049 2.2471043 2.23776269 0.8993718 2.79882613
2.48660339 2.11814833 1.42787834 1.7380073 2.2200057 2.89322593
3.17765443 2.85765749 2.50993593 1.59572597 1.46508216 1.7931604] and Actual value is [
1.8698400000000002, 1.889309999999998, 1.885409999999998, 1.95071, 2.4748900000000003,
1.41723, 1.9312900000000002, 2.4920400000000003, 1.76145, 2.5394200000000002, 2.74255, 3.
035, 1.879959999999999, 1.46181, 2.24743, 2.237409999999997, 0.89991, 2.79832, 2.48676,
2.11773, 1.42766, 1.7379900000000001, 2.21978, 2.89319, 3.17728, 2.85737, 2.51009, 1.5954
1, 1.46494, 1.79293]

Mean absolute error:- 0.000215594702588325
Mean squared error:- 6.713595625257014e-08
Root mean squared error:- 0.00025910607143131583
r2 Score:- 0.999997758024375

At random state 991 the model performs very well
At random state 991
Training score is
0.9999997014177197
Predicted value is [2.26425251 2.24706979 2.44839434 2.807343 0.99839694 2.24188542
1.64837624 2.05104582 2.76613317 2.02486213 1.34731727 2.83595427
0.98160702 1.85989686 2.45187897 2.89317979 2.06394147 1.5989253
1.5985565 1.9493417 1.68145981 3.05128457 1.42782029 1.68426644
2.4535455 1.75868511 3.60181981 1.96971739 2.37156258 2.30864331] and Actual value is [
2.26425, 2.24743, 2.44876, 2.807909999999997, 0.99895, 2.24173, 1.6488, 2.05125, 2.76579
, 2.025, 1.34759, 2.8360000000000003, 0.98195, 1.8604, 2.451759999999997, 2.89319, 2.063
67, 1.59927, 1.598879999999999, 1.9493900000000002, 1.68135, 3.05137, 1.42766, 1.68435,
2.453729999999997, 1.75873, 3.6021400000000003, 1.9699400000000002, 2.371190000000004,
2.30919]

Mean absolute error:- 0.00025083713507535467
Mean squared error:- 9.039617558387308e-08
Root mean squared error:- 0.0003006595675907771
r2 Score:- 0.999997438002873

At random state 992 the model performs very well
At random state 992
Training score is
0.9999997418970191
Predicted value is [2.70221164 2.24711449 2.06397654 2.5098244 2.75462047 2.67623528
1.88964702 2.20795154 2.79870468 1.85110737 2.37156527 1.95068126
2.32133423 2.48653987 2.46562036 2.09029102 1.5957112 3.08893227
2.46516218 1.87967187 1.96974812 1.61622781 1.62258735 1.84417119

0.98175588 1.71920363 1.41707915 1.63323778 1.86430934 2.44686717] and Actual value is [2.70201, 2.24729, 2.06367, 2.51009, 2.75414, 2.67585, 1.889309999999998, 2.20857, 2.79832, 1.851, 2.3711900000000004, 1.95071, 2.3214200000000003, 2.48676, 2.4657, 2.0906599999999997, 1.59541, 3.08854, 2.4653099999999997, 1.8799599999999999, 1.9699400000000002, 1.6158299999999999, 1.62215, 1.84408, 0.98195, 1.7195599999999998, 1.41723, 1.6332799999999998, 1.86399, 2.4464900000000003]

Mean absolute error:- 0.000270294320225221

Mean squared error:- 9.294677564087464e-08

Root mean squared error:- 0.00030487173637593014

r2 Score:- 0.99999574368571

At random state 993 the model performs very well

At random state 993

Training score is

0.999996942108923

Predicted value is [1.92345178 0.89942559 2.70210165 0.67138633 2.83597617 2.86706408

2.63447013 1.38095249 2.12511425 1.59902443 2.32308186 2.26420658

1.58828204 1.5958178 1.9530084 2.67615392 1.2411553 1.62257192

3.10733317 2.11816268 2.21124733 1.93113828 1.64834006 1.59858491

3.03488599 3.10713488 1.68160283 2.44221177 2.41451449 2.75459338] and Actual value is [1.92313, 0.89991, 2.70201, 0.67108, 2.8360000000000003, 2.86712, 2.6343, 1.38079, 2.12466

, 1.59927, 2.32323, 2.26425, 1.58782, 1.59541, 1.95335, 2.67585, 1.24074, 1.62215, 3.107090000000004, 2.11773, 2.21126, 1.9312900000000002, 1.6488, 1.5988799999999999, 3.035, 3.

10712, 1.68135, 2.44191, 2.4148400000000003, 2.75414]

Mean absolute error:- 0.0002639384383289589

Mean squared error:- 9.257160795221942e-08

Root mean squared error:- 0.00030425582648853155

r2 Score:- 0.999997722009272

At random state 994 the model performs very well

At random state 994

Training score is

0.999997308166167

Predicted value is [1.64838183 1.24109978 2.04401334 1.73828904 1.93105448 2.43243275

3.03485278 2.00075521 2.08473657 2.46516761 1.86426022 2.24185036

2.49206088 1.57029407 1.41715961 1.949313 3.26047201 2.53920229

1.88951098 2.02493196 2.53339975 0.99840525 1.44418442 2.32304298

1.75334169 2.7906942 1.46506889 1.94272174 1.8003419 2.18866854] and Actual value is [1.6488, 1.24074, 2.0438400000000003, 1.73797, 1.9312900000000002, 2.43209, 3.035, 2.00073

, 2.08528, 2.4653099999999997, 1.86399, 2.24173, 2.4920400000000003, 1.57059, 1.41723, 1.

9493900000000002, 3.26001, 2.5394200000000002, 1.8893099999999998, 2.0251799999999998, 2.

5332, 0.99895, 1.44395, 2.32323, 1.7536, 2.79094, 1.46494, 1.9429599999999998, 1.8010099999999998, 2.18896]

Mean absolute error:- 0.000256237460824534

Mean squared error:- 8.848528654208386e-08

Root mean squared error:- 0.0002974647652110815

r2 Score:- 0.999996554289928

At random state 995 the model performs very well

At random state 995

Training score is

0.999996840744875

Predicted value is [0.98168703 2.67778293 2.44846929 1.73927691 1.63322233 2.48663568

2.44224289 2.89326221 2.05105733 3.60185203 1.61619299 1.9524573

2.4468778 2.79880705 1.88952866 2.79068319 1.59565459 2.47495086

2.49203699 2.5096126 1.73793816 2.5175024 1.84413483 3.26048773

1.89854971 1.38098106 3.17761101 2.32132505 2.08478376 3.10715155] and Actual value is [0.98195, 2.67782, 2.44876, 1.7393299999999998, 1.6332799999999998, 2.48676, 2.44191, 2.89319, 2.05125, 3.6021400000000003, 1.6158299999999999, 1.9521, 2.4464900000000003, 2.79832, 1.8893099999999998, 2.79094, 1.59541, 2.4748900000000003, 2.4920400000000003, 2.51011, 1.7379900000000001, 2.5173799999999997, 1.84408, 3.26001, 1.89894, 1.38079, 3.17728, 2.3214200000000003, 2.08528, 3.10712]

Mean absolute error:- 0.0002276646048274748

Mean squared error:- 7.626703032836979e-08

Root mean squared error:- 0.0002761648607777061

r2 Score:- 0.9999997855112048

At random state 996 the model performs very well

At random state 996

Training score is

0.9999996983526345

Predicted value is [2.46519946 1.7587182 2.05107345 1.57038396 2.51781673 3.08894086

2.27561419 1.71923514 2.32313708 2.53344618 2.79065451 2.04402777

3.19107312 2.22006964 1.69492092 2.23236383 0.67139541 2.24190971

2.83595783 1.95302863 2.44220683 0.89933444 2.37162083 3.26048835

3.10750003 1.63332764 1.85114946 2.118177 1.68152301 2.67620853] and Actual value is [

2.4653099999999997, 1.75873, 2.05125, 1.57059, 2.51767, 3.08854, 2.27513, 1.7195999999999998,

2.32323, 2.5332, 2.79094, 2.0438400000000003, 3.1913099999999996, 2.21978, 1.6944, 2

.2327, 0.67108, 2.24173, 2.8360000000000003, 1.95335, 2.44191, 0.89991, 2.37119000000000004,

3.26001, 3.1070900000000004, 1.6332799999999998, 1.851, 2.11773, 1.68135, 2.67585]

Mean absolute error:- 0.00027611496137553614

Mean squared error:- 9.800706182612716e-08

Root mean squared error:- 0.00031306079573483354

r2 Score:- 0.999997332566507

At random state 997 the model performs very well

At random state 997

Training score is

0.999997258000927

Predicted value is [3.17763815 2.30873999 3.10717108 2.05108219 0.98166226 1.7192577

1.97540984 2.22004114 2.27414049 2.43248264 2.11355764 1.427798

1.92340397 1.64830699 2.27545553 1.95844852 1.59854892 1.41712588

1.59898138 1.73791738 2.23233903 2.86706749 2.7546119 2.43857545

2.2470907 2.74280385 1.94935539 2.02485961 1.99177329 2.63445157] and Actual value is [

3.17728, 2.30919, 3.10712, 2.05125, 0.98195, 1.7195999999999998, 1.9757, 2.21978, 2.27394

, 2.43209, 2.1139900000000003, 1.42766, 1.92313, 1.6488, 2.27513, 1.95812, 1.5988799999999999,

1.41723, 1.59927, 1.7379900000000001, 2.2327, 2.86712, 2.75414, 2.43872, 2.24743, 2

.74255, 1.9493900000000002, 2.025, 1.9917200000000002, 2.6343]

Mean absolute error:- 0.0002517423520499551

Mean squared error:- 8.108054625286445e-08

Root mean squared error:- 0.0002847464595967164

r2 Score:- 0.99999676060017

At random state 998 the model performs very well

At random state 998

Training score is

0.999997534624828

Predicted value is [2.82364307 2.05106973 2.18867415 2.50994816 2.09025821 2.11814148

1.59895271 1.76141707 1.79314669 3.08886131 1.96939641 2.43854341

1.84412547 1.61618076 2.48664333 1.88954031 2.41450045 2.89327771

2.23770371 2.12501072 1.7533353 1.62255017 1.93108597 2.09977956

2.74280284 1.85997716 2.32378974 2.24710685 1.89853809 2.79880919] and Actual value is [

2.82334, 2.05125, 2.18896, 2.51009, 2.0906599999999997, 2.11773, 1.59927, 1.76145, 1.7929

3, 3.08854, 1.969609999999999, 2.43872, 1.84408, 1.6158299999999999, 2.48676, 1.889309999999998,

2.4148400000000003, 2.89319, 2.2374099999999997, 2.12466, 1.7536, 1.62215, 1.9312900000000002,

2.10017, 2.74255, 1.8604, 2.32407, 2.24729, 1.89894, 2.79832]

Mean absolute error:- 0.0002702373989716807

Mean squared error:- 8.63204692759517e-08

Root mean squared error:- 0.0002938034534785997

r2 Score:- 0.999994599884282

At random state 999 the model performs very well

At random state 999

Training score is

0.999997249268874

Predicted value is [2.67616198 1.63810534 1.9754978 2.51753212 1.94930727 1.34731008

1.93107799 2.67775328 2.83594704 2.76612145 0.65449402 2.53919074

1.63321656 1.94268355 2.80738449 1.89854313 2.09024186 2.41452235

1.95594078 2.37159914 1.96975845 1.41712507 2.20791705 2.22001635

1.99174964 2.32307942 1.59894535 2.04399015 3.10727509 2.05105024] and Actual value is [

```
2.67585, 1.63794, 1.9757, 2.5173799999999997, 1.9493900000000002, 1.34759, 1.931290000000  
0002, 2.67782, 2.8360000000000003, 2.76579, 0.6542899999999999, 2.5394200000000002, 1.633  
2799999999998, 1.9429599999999998, 2.8079099999999997, 1.89894, 2.0906599999999997, 2.414  
8400000000003, 1.9563700000000002, 2.3711900000000004, 1.9699400000000002, 1.41723, 2.208  
57, 2.21978, 1.9917200000000002, 2.32323, 1.59927, 2.0438400000000003, 3.1070900000000004  
, 2.05125]
```

Mean absolute error:- 0.0002447597719294925

Mean squared error:- 8.078236573269189e-08

Root mean squared error:- 0.00028422238781048174

r2 Score:- 0.999996877946614

In [55]:

```
#Accuracy Score
```

In [53]:

```
reg.score(x_train, y_train) #training score  
reg.score(x_test, y_test) #testing score
```

Out [53]:

0.999996877946614

In [54]:

```
#R2 Score
```

In [56]:

```
from sklearn.metrics import r2_score  
y_pred = reg.predict(x_test)  
r2_score(y_test, y_pred)*100
```

Out [56]:

99.99996877946614

Thank You

In []: