

```
In [1]: import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
```

```
In [2]: uber = pd.read_csv('uber.csv')
```

```
In [3]: uber.head()
```

```
Out[3]:
```

|   | Unnamed: 0 | key                              | fare_amount | pickup_datetime            | pickup_longitude | pickup_latitude | dropoff_longitude | dropoff_latitude | passenger_count |
|---|------------|----------------------------------|-------------|----------------------------|------------------|-----------------|-------------------|------------------|-----------------|
| 0 | 24238194   | 2015-05-07<br>19:52:06.0000003   | 7.5         | 2015-05-07<br>19:52:06 UTC | -73.999817       | 40.738354       | -73.999512        | 40.723217        |                 |
| 1 | 27835199   | 2009-07-17<br>20:04:56.0000002   | 7.7         | 2009-07-17<br>20:04:56 UTC | -73.994355       | 40.728225       | -73.994710        | 40.750325        |                 |
| 2 | 44984355   | 2009-08-24<br>21:45:00.00000061  | 12.9        | 2009-08-24<br>21:45:00 UTC | -74.005043       | 40.740770       | -73.962565        | 40.772647        |                 |
| 3 | 25894730   | 2009-06-26<br>08:22:21.0000001   | 5.3         | 2009-06-26<br>08:22:21 UTC | -73.976124       | 40.790844       | -73.965316        | 40.803349        |                 |
| 4 | 17610152   | 2014-08-28<br>17:47:00.000000188 | 16.0        | 2014-08-28<br>17:47:00 UTC | -73.925023       | 40.744085       | -73.973082        | 40.761247        |                 |

```
In [4]: uber.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 200000 entries, 0 to 199999
Data columns (total 9 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Unnamed: 0            200000 non-null int64
1   key                   200000 non-null object
2   fare_amount           200000 non-null float64
3   pickup_datetime       200000 non-null object
4   pickup_longitude      200000 non-null float64
5   pickup_latitude       200000 non-null float64
6   dropoff_longitude     199999 non-null float64
7   dropoff_latitude      199999 non-null float64
8   passenger_count       200000 non-null int64
dtypes: float64(5), int64(2), object(2)
memory usage: 13.7+ MB
```

```
In [5]: uber.isnull().sum()
```

```
Out[5]:
```

|                   |   |
|-------------------|---|
| Unnamed: 0        | 0 |
| key               | 0 |
| fare_amount       | 0 |
| pickup_datetime   | 0 |
| pickup_longitude  | 0 |
| pickup_latitude   | 0 |
| dropoff_longitude | 1 |
| dropoff_latitude  | 1 |
| passenger_count   | 0 |

dtype: int64

```
In [6]: uber_2 = uber.drop(['Unnamed: 0', 'key'], axis=1)
uber_2.dropna(axis=0, inplace=True)
```

```
In [7]: uber_2.isnull().sum()
#uber_2.describe()
```

```
Out[7]:
```

|                   |   |
|-------------------|---|
| fare_amount       | 0 |
| pickup_datetime   | 0 |
| pickup_longitude  | 0 |
| pickup_latitude   | 0 |
| dropoff_longitude | 0 |
| dropoff_latitude  | 0 |
| passenger_count   | 0 |

dtype: int64

```
In [8]: def haversine (lon_1, lon_2, lat_1, lat_2):
```

```
    Cell In[8], line 1
    def haversine (lon_1, lon_2, lat_1, lat_2):
```

SyntaxError: incomplete input

```
In [9]: def haversine (lon_1, lon_2, lat_1, lat_2):
```

```
    lon_1, lon_2, lat_1, lat_2 = map(np.radians, [lon_1, lon_2, lat_1, lat_2]) #Degrees to Radians

    diff_lon = lon_2 - lon_1
    diff_lat = lat_2 - lat_1
```

```

km = 2 * 6371 * np.arcsin(np.sqrt(np.sin(diff_lat/2.0)**2 +
                                   np.cos(lat_1) * np.cos(lat_2) * np.sin(diff_lon/2.0)**2))

return km

```

```

In [10]: uber_2['Distance'] = haversine(uber_2['pickup_longitude'],uber_2['dropoff_longitude'],
                                         uber_2['pickup_latitude'],uber_2['dropoff_latitude'])

uber_2['Distance'] = uber_2['Distance'].astype(float).round(2)    # Round-off Optional

uber_2.head()

```

```

Out[10]:

```

|   | fare_amount | pickup_datetime         | pickup_longitude | pickup_latitude | dropoff_longitude | dropoff_latitude | passenger_count | Distance |
|---|-------------|-------------------------|------------------|-----------------|-------------------|------------------|-----------------|----------|
| 0 | 7.5         | 2015-05-07 19:52:06 UTC | -73.999817       | 40.738354       | -73.999512        | 40.723217        | 1               | 1.68     |
| 1 | 7.7         | 2009-07-17 20:04:56 UTC | -73.994355       | 40.728225       | -73.994710        | 40.750325        | 1               | 2.46     |
| 2 | 12.9        | 2009-08-24 21:45:00 UTC | -74.005043       | 40.740770       | -73.962565        | 40.772647        | 1               | 5.04     |
| 3 | 5.3         | 2009-06-26 08:22:21 UTC | -73.976124       | 40.790844       | -73.965316        | 40.803349        | 3               | 1.66     |
| 4 | 16.0        | 2014-08-28 17:47:00 UTC | -73.925023       | 40.744085       | -73.973082        | 40.761247        | 5               | 4.48     |

```

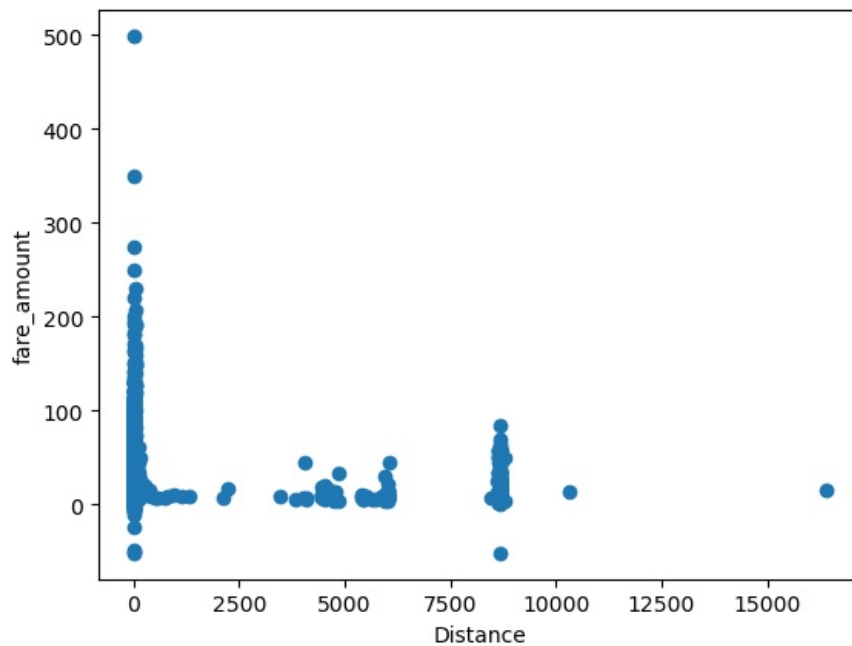
In [11]: plt.scatter(uber_2['Distance'], uber_2['fare_amount'])
plt.xlabel("Distance")
plt.ylabel("fare_amount")

```

```

Out[11]: Text(0, 0.5, 'fare_amount')

```



```

In [12]: uber_2.drop(uber_2[uber_2['Distance'] > 60].index, inplace = True)
uber_2.drop(uber_2[uber_2['Distance'] == 0].index, inplace = True)
uber_2.drop(uber_2[uber_2['fare_amount'] == 0].index, inplace = True)
uber_2.drop(uber_2[uber_2['fare_amount'] < 0].index, inplace = True)

```

```

In [13]: uber_2.drop(uber_2[(uber_2['fare_amount']>100) & (uber_2['Distance']<1)].index, inplace = True )
uber_2.drop(uber_2[(uber_2['fare_amount']<100) & (uber_2['Distance']>100)].index, inplace = True )

```

```

In [14]: uber_2.info()

```

```
<class 'pandas.core.frame.DataFrame'>
Index: 193481 entries, 0 to 199999
Data columns (total 8 columns):
#   Column                Non-Null Count  Dtype
---  ---
0   fare_amount           193481 non-null float64
1   pickup_datetime       193481 non-null object
2   pickup_longitude      193481 non-null float64
3   pickup_latitude       193481 non-null float64
4   dropoff_longitude     193481 non-null float64
5   dropoff_latitude      193481 non-null float64
6   passenger_count       193481 non-null int64
7   Distance              193481 non-null float64
dtypes: float64(6), int64(1), object(1)
memory usage: 13.3+ MB
```

```
In [15]: uber_2['pickup_datetime'] = pd.to_datetime(uber_2['pickup_datetime'])
```

```
In [16]: uber_2['Year'] = uber_2['pickup_datetime'].apply(lambda time: time.year)
uber_2['Month'] = uber_2['pickup_datetime'].apply(lambda time: time.month)
uber_2['Day'] = uber_2['pickup_datetime'].apply(lambda time: time.day)
uber_2['Day of Week'] = uber_2['pickup_datetime'].apply(lambda time: time.dayofweek)
uber_2['Day of Week_num'] = uber_2['pickup_datetime'].apply(lambda time: time.dayofweek)
uber_2['Hour'] = uber_2['pickup_datetime'].apply(lambda time: time.hour)
```

```
In [17]: day_map = {0: 'Mon', 1: 'Tue', 2: 'Wed', 3: 'Thu', 4: 'Fri', 5: 'Sat', 6: 'Sun'}
uber_2['Day of Week'] = uber_2['Day of Week'].map(day_map)
```

```
In [18]: uber_2['counter'] = 1
```

```
In [19]: uber_2['pickup'] = uber_2['pickup_latitude'].astype(str) + "," + uber_2['pickup_longitude'].astype(str)
uber_2['drop off'] = uber_2['dropoff_latitude'].astype(str) + "," + uber_2['dropoff_longitude'].astype(str)
```

```
In [20]: uber_2.head()
```

```
Out[20]:
```

|  | fare_amount | pickup_datetime | pickup_longitude | pickup_latitude | dropoff_longitude | dropoff_latitude | passenger_count | Distance | Year | Mo |
|--|-------------|-----------------|------------------|-----------------|-------------------|------------------|-----------------|----------|------|----|
|--|-------------|-----------------|------------------|-----------------|-------------------|------------------|-----------------|----------|------|----|

|   |      |                              |            |           |            |           |   |      |      |  |
|---|------|------------------------------|------------|-----------|------------|-----------|---|------|------|--|
| 0 | 7.5  | 2015-05-07<br>19:52:06+00:00 | -73.999817 | 40.738354 | -73.999512 | 40.723217 | 1 | 1.68 | 2015 |  |
| 1 | 7.7  | 2009-07-17<br>20:04:56+00:00 | -73.994355 | 40.728225 | -73.994710 | 40.750325 | 1 | 2.46 | 2009 |  |
| 2 | 12.9 | 2009-08-24<br>21:45:00+00:00 | -74.005043 | 40.740770 | -73.962565 | 40.772647 | 1 | 5.04 | 2009 |  |
| 3 | 5.3  | 2009-06-26<br>08:22:21+00:00 | -73.976124 | 40.790844 | -73.965316 | 40.803349 | 3 | 1.66 | 2009 |  |
| 4 | 16.0 | 2014-08-28<br>17:47:00+00:00 | -73.925023 | 40.744085 | -73.973082 | 40.761247 | 5 | 4.48 | 2014 |  |

```
In [21]: import statistics as st

print("Mean of fare prices is % s "
      % (st.mean(uber_2['fare_amount'])))

print("Median of fare prices is % s "
      % (st.median(uber_2['fare_amount'])))

print("Standard Deviation of Fare Prices is % s "
      % (st.stdev(uber_2['fare_amount'])))

import statistics as st

print("Mean of Distance is % s "
      % (st.mean(uber_2['Distance'])))

print("Median of Distance is % s "
      % (st.median(uber_2['Distance'])))

print("Standard Deviation of Distance is % s "
      % (st.stdev(uber_2['Distance'])))
```

```
Mean of fare prices is 11.311137476031238
Median of fare prices is 8.5
Standard Deviation of Fare Prices is 9.501354886915946
Mean of Distance is 3.3573488352861522
Median of Distance is 2.18
Standard Deviation of Distance is 3.5995030824386185
```

```
In [22]: X = uber_2['Distance'].values.reshape(-1, 1)      #Independent Variable
y = uber_2['fare_amount'].values.reshape(-1, 1)          #Dependent Variable
```

```
In [23]: from sklearn.preprocessing import StandardScaler
```

```
std = StandardScaler()
y_std = std.fit_transform(y)
print(y_std)
```

```
[[-0.4011162 ]
 [-0.38006651]
 [ 0.16722527]
 ...
 [ 2.06169682]
 [ 0.33562274]
 [ 0.29352337]]
```

In [24]: `x_std = std.fit_transform(X)`  
`print(x_std)`

```
[[-0.46599576]
 [-0.24929862]
 [ 0.46746884]
 ...
 [ 2.63721838]
 [ 0.05074357]
 [ 0.57303924]]
```

In [25]: `from sklearn.model_selection import train_test_split`  
`X_train, X_test, y_train, y_test = train_test_split(x_std, y_std, test_size=0.2, random_state=0)`

In [26]: `from sklearn.linear_model import LinearRegression`  
`l_reg = LinearRegression()`  
`l_reg.fit(X_train, y_train)`

Out[26]: `LinearRegression`  
`LinearRegression()`

In [27]: `print("Training set score: {:.2f}".format(l_reg.score(X_train, y_train)))`  
`print("Test set score: {:.7f}".format(l_reg.score(X_test, y_test)))`

```
Training set score: 0.80
Test set score: 0.8006071
```

In [28]: `y_pred = l_reg.predict(X_test)`  
`df = {'Actual': y_test, 'Predicted': y_pred}`

In [29]: `from tabulate import tabulate`  
`print(tabulate(df, headers = 'keys', tablefmt = 'psql'))`

```
+-----+-----+
|      Actual      | Predicted |
+-----+-----+
| -0.548464        | -0.663476 |
| -0.769486        | -0.611449 |
|  0.651368        |  0.290356 |
|  6.86102         |  3.52595  |
| -0.611613        | -0.544557 |
| -0.16957         | -0.333971 |
| -0.295868        | -0.0490599|
| -0.0853709       | -0.224961 |
| -0.506365        | -0.517305 |
| -0.558989        | -0.628792 |
|  0.914489        |  1.69261  |
|  2.94894         |  1.3854   |
|  0.0409272       | -0.202664 |
|  1.23023         |  0.282923 |
| -0.506365        | -0.584197 |
| -0.590563        | -0.599062 |
| -0.401116        | -0.378566 |
|  4.84341         |  4.53429  |
| -0.674762        | -0.524737 |
|  0.0198775       | -0.106042 |
| -0.337967        | -0.0986096|
| -0.348492        | -0.54208  |
| -0.243244        | -0.158069 |
| -0.243244        | -0.272034 |
| -0.337967        | -0.566854 |
| -0.548464        | -0.537125 |
| -0.137995        | -0.309196 |
| -0.243244        | -0.42316  |
| -0.422166        | -0.279466 |
| -0.664237        | -0.695684 |
| -0.80106         | -0.591629 |
| -0.769486        | -0.678341 |
|  0.167225        |  0.280446 |
| -0.716861        | -0.774963 |
| -0.348492        | -0.207619 |
|  1.12499         |  1.05094  |
| -0.716861        | -0.675864 |
|  3.79093         |  2.66874  |
| -0.422166        | -0.254691 |
```

|            |            |
|------------|------------|
| 0.17775    | 0.258148   |
| 0.125126   | 0.508374   |
| -0.506365  | -0.338926  |
| -0.422166  | -0.398385  |
| 0.882915   | 1.38293    |
| -0.758961  | -0.725413  |
| 0.388247   | 0.411752   |
| 0.251424   | 0.676843   |
| -0.548464  | -0.554467  |
| -0.611613  | -0.613927  |
| 2.1038     | 1.12031    |
| -0.674762  | -0.4628    |
| -0.337967  | -0.730368  |
| -0.558989  | -0.495007  |
| 0.388247   | -0.420683  |
| -0.295868  | -0.0218076 |
| -0.137995  | -0.0862222 |
| -0.295868  | -0.415728  |
| 0.493495   | 0.0326971  |
| 0.588219   | 0.637204   |
| -0.0853709 | -0.504917  |
| -0.464265  | -0.331493  |
| -0.80106   | -0.678341  |
| -0.211669  | -0.120907  |
| -0.558989  | -0.549512  |
| -0.295868  | 0.31513    |
| -0.716861  | -0.633747  |
| -0.12747   | -0.140727  |
| 0.125126   | -0.82699   |
| 2.05433    | 1.31851    |
| 0.282999   | 0.186301   |
| -0.506365  | -0.400863  |
| -0.401116  | -0.509872  |
| -0.295868  | -0.170457  |
| -0.464265  | -0.499962  |
| -0.716861  | -0.710549  |
| -0.401116  | -0.529692  |
| -0.874734  | -0.770008  |
| -0.716861  | -0.49253   |
| -0.401116  | -0.485097  |
| 0.0409272  | 0.0549945  |
| -0.632663  | -0.457845  |
| 0.282999   | 0.329995   |
| -0.0853709 | 0.0500395  |
| 0.17775    | -0.51235   |
| 2.1038     | 1.32842    |
| -0.12747   | -0.044105  |
| -0.348492  | -0.445458  |
| -0.716861  | -0.591629  |
| -0.137995  | -0.175412  |
| 0.251424   | -0.772486  |
| 2.31429    | 0.932024   |
| 0.914489   | 0.704096   |
| 1.00921    | 1.11288    |
| 0.672418   | 1.33833    |
| 0.167225   | 0.622339   |
| -0.716861  | -0.599062  |
| -0.401116  | -0.227439  |
| -0.758961  | -0.636224  |
| -0.348492  | -0.205142  |
| -0.548464  | -0.430593  |
| -0.80106   | -0.685774  |
| 0.167225   | -0.371133  |
| 0.125126   | -0.398385  |
| -0.558989  | -0.524737  |
| -0.506365  | -0.457845  |
| -0.632663  | -0.398385  |
| -0.243244  | -0.366178  |
| -0.664237  | -0.589152  |
| 0.282999   | -0.574287  |
| -0.664237  | -0.48262   |
| 0.00935264 | -0.153114  |
| -0.506365  | -0.576764  |
| -0.506365  | -0.626314  |
| -0.716861  | -0.576764  |
| -0.243244  | -0.341403  |
| -0.674762  | -0.569332  |
| -0.80106   | -0.651089  |
| -0.558989  | -0.4628    |
| -0.664237  | -0.529692  |
| -0.82211   | -0.695684  |
| 1.07236    | 1.00883    |
| -0.84316   | -0.693206  |
| 0.209325   | 0.228418   |
| -0.211669  | 2.19306    |
| 0.0830265  | -0.279466  |
| -0.84316   | -0.660999  |
| 0.167225   | 0.35477    |
| 0.335623   | 0.570311   |

|            |             |
|------------|-------------|
| 0.0830265  | 0.44396     |
| 1.93119    | 0.74869     |
| -0.337967  | -0.351313   |
| -0.464265  | -0.566854   |
| -0.295868  | -0.217529   |
| -0.295868  | -0.286899   |
| 0.230374   | 0.111977    |
| -0.422166  | -0.400863   |
| -0.548464  | -0.475187   |
| 0.125126   | 0.714006    |
| -0.295868  | -0.00694268 |
| -0.758961  | -0.618882   |
| -0.401116  | -0.113475   |
| -0.664237  | -0.717981   |
| -0.80106   | -0.606494   |
| -0.380067  | -0.504917   |
| -0.348492  | -0.222484   |
| -0.632663  | -0.361223   |
| -0.548464  | -0.438025   |
| 0.461921   | 0.483599    |
| -0.632663  | -0.559422   |
| -0.674762  | -0.497485   |
| -0.190619  | -0.0911772  |
| 0.335623   | 0.0128772   |
| -0.0853709 | 0.510852    |
| 4.05089    | 4.08091     |
| -0.506365  | -0.455368   |
| -0.632663  | -0.544557   |
| -0.45374   | -0.304241   |
| -0.45374   | -0.457845   |
| -0.716861  | -0.633747   |
| -0.506365  | -0.569332   |
| -0.401116  | -0.378566   |
| -0.295868  | 0.218508    |
| -0.422166  | -0.410773   |
| 1.09341    | 1.43248     |
| 0.703992   | 0.208599    |
| -0.632663  | -0.53217    |
| -0.590563  | -0.447935   |
| 1.50388    | 0.924592    |
| -0.137995  | -0.0986096  |
| 1.33548    | 0.974142    |
| -0.0432716 | 0.136751    |
| -0.348492  | -0.358746   |
| -0.664237  | -0.571809   |
| -0.137995  | -0.408295   |
| -0.253768  | -0.0837447  |
| 0.861865   | 0.790808    |
| -0.716861  | -0.606494   |
| -0.337967  | -0.192754   |
| -0.243244  | -0.400863   |
| -0.45374   | -0.291854   |
| 0.0830265  | 0.0797693   |
| -0.137995  | -0.331493   |
| -0.716861  | -0.559422   |
| -0.80106   | -0.613927   |
| 0.335623   | 0.213554    |
| -0.401116  | -0.286899   |
| -0.464265  | -0.175412   |
| -0.558989  | -0.485097   |
| 2.36692    | 2.30455     |
| -0.716861  | -0.626314   |
| -0.337967  | -0.123384   |
| -0.80106   | -0.524737   |
| -0.464265  | -0.224961   |
| -0.337967  | -0.150637   |
| -0.190619  | -0.405818   |
| -0.548464  | -0.524737   |
| 0.493495   | -0.257169   |
| -0.16957   | -0.0317175  |
| -0.716861  | -0.621359   |
| -0.348492  | -0.378566   |
| -0.769486  | -0.636224   |
| -0.558989  | -0.589152   |
| -0.611613  | -0.52226    |
| -0.632663  | -0.561899   |
| -0.137995  | -0.329016   |
| -0.611613  | -0.628792   |
| 1.17761    | 1.88586     |
| -0.758961  | -0.643656   |
| 1.17761    | 0.951844    |
| 0.282999   | -0.0787898  |
| -0.243244  | -0.408295   |
| 0.630318   | -0.232394   |
| -0.716861  | -0.631269   |
| -0.243244  | -0.363701   |
| -0.295868  | -0.594107   |
| -0.422166  | -0.418205   |
| -0.464265  | -0.48262    |

|            |            |
|------------|------------|
| 0.0725017  | 0.139229   |
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| -0.422166  | -0.351313  |
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| -0.506365  | -0.509872  |
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| 3.19838    | 0.907249   |
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| 0.672418   | 1.03608    |
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| -0.0853709 | -0.0936547 |

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| 0.0198775  | -0.0465824 |
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| -0.590563  | -0.38352   |
| 3.44045    | 3.38969    |
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| -0.611613  | -0.450413  |

|            |            |  |
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| 0.335623   | 0.984052   |  |
| 0.293523   | 0.666933   |  |
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| -0.348492  | -0.408295  |  |
| -0.506365  | -0.41325   |  |
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| -0.337967  | -0.306718  |  |
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| 1.38811    | 0.629771   |  |
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| -0.253768  | -0.39343   |  |
| -0.632663  | -0.398385  |  |
| -0.590563  | -0.467755  |  |

+-----+-----+

```
In [30]: from sklearn import metrics
print('Mean Absolute Error:', metrics.mean_absolute_error(y_test, y_pred))
print('Mean Absolute % Error:', metrics.mean_absolute_percentage_error(y_test, y_pred), "%")
print('Mean Squared Error:', metrics.mean_squared_error(y_test, y_pred))
print('Root Mean Squared Error:', np.sqrt(metrics.mean_squared_error(y_test, y_pred)))
```

```
Mean Absolute Error: 0.23979020298617254
Mean Absolute % Error: 2.7124408628069085 %
Mean Squared Error: 0.19845894128014682
Root Mean Squared Error: 0.44548730765325606
```

```
In [31]: print(l_reg.intercept_)
print(l_reg.coef_)

[-0.00016705]
[[0.89176936]]
```

```
In [ ]:
```