Data Preprocessing

Data preprocessing is necessary since there might be some missing values or categorical variables that need to be converted to numerical. Also, there is a need for data normalization since KNN and SVM use the absolute measurement.

In [1]:
```
!pip install category_encoders
```

```
Collecting category_encoders
  Obtaining dependency information for category_encoders from https://files.pythonhoste
d.org/packages/7f/e5/79a62e5c9c9ddbfa9ff5222240d408c1eeea4e38741a0dc8343edc7ef1ec/catego
ry_encoders-2.6.3-py2.py3-none-any.whl.metadata
  Downloading category_encoders-2.6.3-py2.py3-none-any.whl.metadata (8.0 kB)
Requirement already satisfied: numpy>=1.14.0 in /Users/senaozb/anaconda3/lib/python3.11/
site-packages (from category_encoders) (1.24.3)
Requirement already satisfied: scikit-learn>=0.20.0 in /Users/senaozb/anaconda3/lib/pyth
on3.11/site-packages (from category_encoders) (1.3.0)
Requirement already satisfied: scipy>=1.0.0 in /Users/senaozb/anaconda3/lib/python3.11/s
ite-packages (from category_encoders) (1.11.1)
Requirement already satisfied: statsmodels>=0.9.0 in /Users/senaozb/anaconda3/lib/python
3.11/site-packages (from category_encoders) (0.14.0)
Requirement already satisfied: pandas>=1.0.5 in /Users/senaozb/anaconda3/lib/python3.11/
site-packages (from category_encoders) (2.0.3)
Requirement already satisfied: patsy>=0.5.1 in /Users/senaozb/anaconda3/lib/python3.11/s
ite-packages (from category_encoders) (0.5.3)
Requirement already satisfied: python-dateutil>=2.8.2 in /Users/senaozb/anaconda3/lib/py
thon3.11/site-packages (from pandas>=1.0.5->category_encoders) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in /Users/senaozb/anaconda3/lib/python3.11/s
ite-packages (from pandas>=1.0.5->category_encoders) (2023.3.post1)
Requirement already satisfied: tzdata>=2022.1 in /Users/senaozb/anaconda3/lib/python3.1
1/site-packages (from pandas>=1.0.5->category_encoders) (2023.3)
Requirement already satisfied: six in /Users/senaozb/anaconda3/lib/python3.11/site-packa
ges (from patsy>=0.5.1->category_encoders) (1.16.0)
Requirement already satisfied: joblib>=1.1.1 in /Users/senaozb/anaconda3/lib/python3.11/
site-packages (from scikit-learn>=0.20.0->category_encoders) (1.2.0)
Requirement already satisfied: threadpoolctl>=2.0.0 in /Users/senaozb/anaconda3/lib/pyth
on3.11/site-packages (from scikit-learn>=0.20.0->category_encoders) (2.2.0)
Requirement already satisfied: packaging>=21.3 in /Users/senaozb/anaconda3/lib/python3.1
1/site-packages (from statsmodels>=0.9.0->category_encoders) (23.1)
Downloading category_encoders-2.6.3-py2.py3-none-any.whl (81 kB)
   ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 81.9/81.9 kB 813.1 kB/s eta 0:00:00a 0:00:01
Installing collected packages: category_encoders
Successfully installed category_encoders-2.6.3
```

In [2]:
```python
# Import libraries
import pandas as pd
import category_encoders as ce
from sklearn.preprocessing import StandardScaler
import numpy as np
from collections import Counter
from sklearn.model_selection import KFold
from sklearn.metrics import mean_absolute_error, roc_curve, auc
import time
from sklearn.svm import SVC, SVR
from sklearn.tree import DecisionTreeClassifier, DecisionTreeRegressor
import matplotlib.pyplot as plt
```

In [4]:
```python
# Read the data and print the information
audit_risk = pd.read_csv("audit_risk.csv")
```

```
print(audit_risk.head())
print(audit_risk.info())
```

```
   Sector_score LOCATION_ID  PARA_A  Score_A  Risk_A  PARA_B  Score_B  Risk_B  \
0          3.89          23    4.18      0.6   2.508    2.50      0.2   0.500   
1          3.89           6    0.00      0.2   0.000    4.83      0.2   0.966   
2          3.89           6    0.51      0.2   0.102    0.23      0.2   0.046   
3          3.89           6    0.00      0.2   0.000   10.80      0.6   6.480   
4          3.89           6    0.00      0.2   0.000    0.08      0.2   0.016   

   TOTAL  numbers  ...  RiSk_E  History  Prob  Risk_F  Score  Inherent_Risk  \
0   6.68      5.0  ...     0.4        0   0.2     0.0    2.4          8.574   
1   4.83      5.0  ...     0.4        0   0.2     0.0    2.0          2.554   
2   0.74      5.0  ...     0.4        0   0.2     0.0    2.0          1.548   
3  10.80      6.0  ...     0.4        0   0.2     0.0    4.4         17.530   
4   0.08      5.0  ...     0.4        0   0.2     0.0    2.0          1.416   

   CONTROL_RISK  Detection_Risk  Audit_Risk  Risk  
0           0.4             0.5      1.7148     1  
1           0.4             0.5      0.5108     0  
2           0.4             0.5      0.3096     0  
3           0.4             0.5      3.5060     1  
4           0.4             0.5      0.2832     0  

[5 rows x 27 columns]
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 776 entries, 0 to 775
Data columns (total 27 columns):
 #   Column          Non-Null Count  Dtype  
---  ------          --------------  -----  
 0   Sector_score    776 non-null    float64
 1   LOCATION_ID     776 non-null    object 
 2   PARA_A          776 non-null    float64
 3   Score_A         776 non-null    float64
 4   Risk_A          776 non-null    float64
 5   PARA_B          776 non-null    float64
 6   Score_B         776 non-null    float64
 7   Risk_B          776 non-null    float64
 8   TOTAL           776 non-null    float64
 9   numbers         776 non-null    float64
 10  Score_B.1       776 non-null    float64
 11  Risk_C          776 non-null    float64
 12  Money_Value     775 non-null    float64
 13  Score_MV        776 non-null    float64
 14  Risk_D          776 non-null    float64
 15  District_Loss   776 non-null    int64  
 16  PROB            776 non-null    float64
 17  RiSk_E          776 non-null    float64
 18  History         776 non-null    int64  
 19  Prob            776 non-null    float64
 20  Risk_F          776 non-null    float64
 21  Score           776 non-null    float64
 22  Inherent_Risk   776 non-null    float64
 23  CONTROL_RISK    776 non-null    float64
 24  Detection_Risk  776 non-null    float64
 25  Audit_Risk      776 non-null    float64
 26  Risk            776 non-null    int64  
dtypes: float64(23), int64(3), object(1)
memory usage: 163.8+ KB
None
```

In [5]:
```
# Check for null variables and replace with the mean value
print(audit_risk.isnull().sum())
mean_value = audit_risk['Money_Value'].mean()
audit_risk['Money_Value'] = audit_risk['Money_Value'].fillna(mean_value)
```

```
Sector_score      0
LOCATION_ID       0
PARA_A            0
Score_A           0
Risk_A            0
PARA_B            0
Score_B           0
Risk_B            0
TOTAL             0
numbers           0
Score_B.1         0
Risk_C            0
Money_Value       1
Score_MV          0
Risk_D            0
District_Loss     0
PROB              0
RiSk_E            0
History           0
Prob              0
Risk_F            0
Score             0
Inherent_Risk     0
CONTROL_RISK      0
Detection_Risk    0
Audit_Risk        0
Risk              0
dtype: int64
```

In [6]:
```
# Show the categories of the categorical variable
audit_risk["LOCATION_ID"].value_counts()
```

Out[6]:
```
LOCATION_ID
8           76
19          68
9           53
16          52
12          47
5           44
2           41
4           37
15          35
13          35
6           33
32          29
11          26
22          24
29          21
14          20
18          16
31          12
1           11
37          10
39           9
28           8
21           8
27           8
43           7
25           6
20           5
7            4
30           4
38           4
36           4
```

```
3            3
40           3
35           2
44           1
NUH          1
LOHARU       1
SAFIDON      1
23           1
42           1
41           1
34           1
33           1
24           1
17           1
Name: count, dtype: int64
```

In [7]:
```
# Encode it to numerical
encoder = ce.TargetEncoder()
audit_risk['LOCATION_ID'] = encoder.fit_transform(audit_risk['LOCATION_ID'], audit_risk[
```

In [8]:
```
# There is no need for the audit risk since it affects the result
audit_risk.drop('Audit_Risk', axis=1, inplace=True)
```

In [9]:
```
# Normalize the values
columns_to_normalize_audit = [col for col in audit_risk.columns if col != "Risk"]

scaler = StandardScaler()
normalized_data = scaler.fit_transform(audit_risk[columns_to_normalize_audit])
audit_normalized = pd.DataFrame(normalized_data, columns=columns_to_normalize_audit)
audit_normalized["Risk"] = audit_risk["Risk"]

print(audit_normalized.head())
print(audit_normalized.info())
```

```
   Sector_score  LOCATION_ID    PARA_A   Score_A    Risk_A        PARA_B  \
0     -0.670465     0.753175  0.304800  1.429846  0.336502 -1.658295e-01
1     -0.670465    -1.742275 -0.431736 -0.869761 -0.392943 -1.192773e-01
2     -0.670465    -1.742275 -0.341872 -0.869761 -0.363277 -2.111829e-01
3     -0.670465    -1.742275 -0.431736 -0.869761 -0.392943  2.317208e-07
4     -0.670465    -1.742275 -0.431736 -0.869761 -0.392943 -2.141798e-01

    Score_B    Risk_B     TOTAL   numbers  ...     PROB    RiSk_E   History  \
0 -0.666752 -0.194121 -0.127506 -0.255998  ... -0.16502 -0.410417 -0.196691
1 -0.666752 -0.178615 -0.163583 -0.255998  ... -0.16502 -0.410417 -0.196691
2 -0.666752 -0.209227 -0.243341 -0.255998  ... -0.16502 -0.410417 -0.196691
3  1.690422  0.004858 -0.047162  3.527894  ... -0.16502 -0.410417 -0.196691
4 -0.666752 -0.210226 -0.256212 -0.255998  ... -0.16502 -0.410417 -0.196691

       Prob    Risk_F     Score  Inherent_Risk  CONTROL_RISK  Detection_Risk  \
0 -0.246568 -0.175398 -0.352503      -0.166468     -0.388662             0.0
1 -0.246568 -0.175398 -0.818503      -0.276513     -0.388662             0.0
2 -0.246568 -0.175398 -0.818503      -0.294902     -0.388662             0.0
3 -0.246568 -0.175398  1.977497      -0.002753     -0.388662             0.0
4 -0.246568 -0.175398 -0.818503      -0.297315     -0.388662             0.0

   Risk
0     1
1     0
2     0
3     1
4     0

[5 rows x 26 columns]
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 776 entries, 0 to 775
Data columns (total 26 columns):
 #   Column          Non-Null Count  Dtype  
---  ------          --------------  -----  
 0   Sector_score    776 non-null    float64
 1   LOCATION_ID     776 non-null    float64
 2   PARA_A          776 non-null    float64
 3   Score_A         776 non-null    float64
 4   Risk_A          776 non-null    float64
 5   PARA_B          776 non-null    float64
 6   Score_B         776 non-null    float64
 7   Risk_B          776 non-null    float64
 8   TOTAL           776 non-null    float64
 9   numbers         776 non-null    float64
 10  Score_B.1       776 non-null    float64
 11  Risk_C          776 non-null    float64
 12  Money_Value     776 non-null    float64
 13  Score_MV        776 non-null    float64
 14  Risk_D          776 non-null    float64
 15  District_Loss   776 non-null    float64
 16  PROB            776 non-null    float64
 17  RiSk_E          776 non-null    float64
 18  History         776 non-null    float64
 19  Prob            776 non-null    float64
 20  Risk_F          776 non-null    float64
 21  Score           776 non-null    float64
 22  Inherent_Risk   776 non-null    float64
 23  CONTROL_RISK    776 non-null    float64
 24  Detection_Risk  776 non-null    float64
 25  Risk            776 non-null    int64  
dtypes: float64(25), int64(1)
memory usage: 157.8 KB
None
```

In [10]:
```
# Read the data and print the information
day = pd.read_csv("day.csv")
print(day.head())
print(day.info())
```

```
   instant      dteday  season  yr  mnth  holiday  weekday  workingday  \
0        1  2011-01-01       1   0     1        0        6           0   
1        2  2011-01-02       1   0     1        0        0           0   
2        3  2011-01-03       1   0     1        0        1           1   
3        4  2011-01-04       1   0     1        0        2           1   
4        5  2011-01-05       1   0     1        0        3           1   

   weathersit      temp     atemp       hum  windspeed  casual  registered  \
0           2  0.344167  0.363625  0.805833   0.160446     331         654   
1           2  0.363478  0.353739  0.696087   0.248539     131         670   
2           1  0.196364  0.189405  0.437273   0.248309     120        1229   
3           1  0.200000  0.212122  0.590435   0.160296     108        1454   
4           1  0.226957  0.229270  0.436957   0.186900      82        1518   

    cnt  
0   985  
1   801  
2  1349  
3  1562  
4  1600  
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 731 entries, 0 to 730
Data columns (total 16 columns):
 #   Column      Non-Null Count  Dtype  
---  ------      --------------  -----  
 0   instant     731 non-null    int64  
 1   dteday      731 non-null    object 
 2   season      731 non-null    int64  
 3   yr          731 non-null    int64  
 4   mnth        731 non-null    int64  
 5   holiday     731 non-null    int64  
 6   weekday     731 non-null    int64  
 7   workingday  731 non-null    int64  
 8   weathersit  731 non-null    int64  
 9   temp        731 non-null    float64
 10  atemp       731 non-null    float64
 11  hum         731 non-null    float64
 12  windspeed   731 non-null    float64
 13  casual      731 non-null    int64  
 14  registered  731 non-null    int64  
 15  cnt         731 non-null    int64  
dtypes: float64(4), int64(11), object(1)
memory usage: 91.5+ KB
None
```

In [11]:
```
# Check for null variables
print(day.isnull().sum())
```

```
instant       0
dteday        0
season        0
yr            0
mnth          0
holiday       0
weekday       0
workingday    0
weathersit    0
temp          0
atemp         0
hum           0
windspeed     0
casual        0
registered    0
cnt           0
dtype: int64
```

In [12]:
```
# Show the categories of the categorical variable
day["dteday"].value_counts()
```

Out[12]:
```
dteday
2011-01-01    1
2012-04-25    1
2012-04-27    1
2012-04-28    1
2012-04-29    1
             ..
2011-09-03    1
2011-09-04    1
2011-09-05    1
2011-09-06    1
2012-12-31    1
Name: count, Length: 731, dtype: int64
```

In [13]:
```
# There is no need for the date info since it doesn't carry any necessary info
day.drop('dteday', axis=1, inplace=True)
```

In [14]:
```
# Normalize the values
columns_to_normalize_day = [col for col in day.columns if col != "cnt"]

normalized_data = scaler.fit_transform(day[columns_to_normalize_day])
day_normalized = pd.DataFrame(normalized_data, columns=columns_to_normalize_day)
```

```
day_normalized["cnt"] = day["cnt"]

print(day_normalized.head())
print(day_normalized.info())
```

```
    instant    season        yr      mnth   holiday   weekday  workingday  \
0 -1.729683 -1.348213 -1.001369 -1.600161 -0.171981  1.498809   -1.471225
1 -1.724944 -1.348213 -1.001369 -1.600161 -0.171981 -1.496077   -1.471225
2 -1.720205 -1.348213 -1.001369 -1.600161 -0.171981 -0.996930    0.679706
3 -1.715466 -1.348213 -1.001369 -1.600161 -0.171981 -0.497782    0.679706
4 -1.710728 -1.348213 -1.001369 -1.600161 -0.171981  0.001366    0.679706

   weathersit      temp     atemp       hum  windspeed    casual  registered  \
0    1.110427 -0.826662 -0.679946  1.250171  -0.387892 -0.753734   -1.925471
1    1.110427 -0.721095 -0.740652  0.479113   0.749602 -1.045214   -1.915209
2   -0.726048 -1.634657 -1.749767 -1.339274   0.746632 -1.061246   -1.556689
3   -0.726048 -1.614780 -1.610270 -0.263182  -0.389829 -1.078734   -1.412383
4   -0.726048 -1.467414 -1.504971 -1.341494  -0.046307 -1.116627   -1.371336

    cnt
0   985
1   801
2  1349
3  1562
4  1600
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 731 entries, 0 to 730
Data columns (total 15 columns):
 #   Column      Non-Null Count  Dtype
---  ------      --------------  -----
 0   instant     731 non-null    float64
 1   season      731 non-null    float64
 2   yr          731 non-null    float64
 3   mnth        731 non-null    float64
 4   holiday     731 non-null    float64
 5   weekday     731 non-null    float64
 6   workingday  731 non-null    float64
 7   weathersit  731 non-null    float64
 8   temp        731 non-null    float64
 9   atemp       731 non-null    float64
 10  hum         731 non-null    float64
 11  windspeed   731 non-null    float64
 12  casual      731 non-null    float64
 13  registered  731 non-null    float64
 14  cnt         731 non-null    int64
dtypes: float64(14), int64(1)
memory usage: 85.8 KB
None
```

Machine Learning Models

In [15]:
```
# Prepare the datasets
X_audit, y_audit = audit_normalized[columns_to_normalize_audit], audit_normalized["Risk"
X_day, y_day = day_normalized[columns_to_normalize_day], day_normalized["cnt"]
```

In [16]:
```
def confusion_matrix_custom(actual, predicted):
    # Compute the confusion matrix for the predictions
    labels = np.unique(np.concatenate((actual, predicted)))
    label_map = {label: i for i, label in enumerate(labels)}

    matrix = np.zeros((len(labels), len(labels)), dtype=int)
    for a, p in zip(actual, predicted):
        matrix[label_map[a], label_map[p]] += 1

    return matrix
```

Part 1 : KNN Classifier

In [17]:
```
# Define euclidean distance
def euclidean_dist(a, b):
    return np.sqrt(np.sum((a - b)**2))
```

In [19]:
```
def knn_classifier(X_train, y_train):

    # Perform 6-fold cross-validation
    kf = KFold(n_splits=6)
    conf_matrices = []
    for train_index, test_index in kf.split(X_train):
        # Split the dataset
        X_train_splitted, X_test_splitted = X_train.iloc[train_index], X_train.iloc[test
        y_train_splitted, y_test_splitted = y_train.iloc[train_index], y_train.iloc[test

        # Convert DataFrame entries into numerical arrays
        X_train_splitted = X_train_splitted.to_numpy()
        X_test_splitted = X_test_splitted.to_numpy()

        y_test_pred = []
        # For each test value, run the model
        for x_test in X_test_splitted:
            distances = [euclidean_dist(x_test, x_train) for x_train in X_train_splitted
            indices = np.argsort(distances)[:3]
            classes = [y_train_splitted.iloc[i] for i in indices]
            y_test_pred.append(Counter(classes).most_common(1)[0][0])

        # Compute confusion matrix
        conf_matrix = confusion_matrix_custom(y_test_splitted, y_test_pred)
        conf_matrices.append(conf_matrix)

    # Calculate mean confusion matrix
    mean_conf_matrix = np.mean(conf_matrices, axis=0)
    normalized_conf_matrix = conf_matrix.astype('float') / conf_matrix.sum(axis=1)[:, np

    print("Normalized Confusion Matrix:")
    print(normalized_conf_matrix)


start_time = time.time()
knn_classifier(X_audit, y_audit)
end_time = time.time()
print("Runtime Performance:", end_time - start_time, "seconds")
```

```
Normalized Confusion Matrix:
[[0.99186992 0.00813008]
 [0.33333333 0.66666667]]
Runtime Performance: 1.3699157238006592 seconds
```

Confusion matrix says: True Negatives = 0.992, False Negatives = 0.333, True Positives = 0.667, False Positives = 0.008

Accuracy : 0.83 , Precision : 0.99, Recall : 0.67

This model struggles with the false negatives which means that there are a lot of positive inputs classified as negative. The model tends to classify the input as negative.

Runtime performance is 1.37 seconds which is considerably good but it would be faster.

Part 2 : KNN Regressor

In [20]:
```python
# Define manhattan distance
def manhattan_dist(a, b):
    return np.sum(np.abs(a - b))
```

In [21]:
```python
def knn_regressor(X_train, y_train):
    # Perform 6-fold cross-validation
    kf = KFold(n_splits=6)
    mae_values = []
    for train_index, test_index in kf.split(X_train):
        # Split the dataset
        X_train_splitted, X_test_splitted = X_train.iloc[train_index], X_train.iloc[test
        y_train_splitted, y_test_splitted = y_train.iloc[train_index], y_train.iloc[test

        # Convert DataFrame entries into numerical arrays
        X_train_splitted = X_train_splitted.to_numpy()
        X_test_splitted = X_test_splitted.to_numpy()

        y_test_pred = []
        # For each test value, run the model
        for x_test in X_test_splitted:
            distances = [manhattan_dist(x_test, x_train) for x_train in X_train_splitted
            indices = np.argsort(distances)[:3]
            values = [y_train_splitted.iloc[i] for i in indices]
            y_test_pred.append(np.mean(values))

        # Compute mean absolute error
        mae = mean_absolute_error(y_test_splitted, y_test_pred)
        mae_values.append(mae)

    # Calculate mean MAE
    mean_mae = np.mean(mae_values)

    # Print mean MAE
    print("Mean Absolute Error:", mean_mae)

    print("The average of the original results:", y_train.to_numpy().mean())
    print("The max value and the min value of the original results:", y_train.to_numpy()

start_time = time.time()
knn_regressor(X_day, y_day)
end_time = time.time()
print("Runtime Performance:", end_time - start_time, "seconds")
```

```
Mean Absolute Error: 805.657164039802
The average of the original results: 4504.3488372093025
The max value and the min value of the original results: 8714 22
Runtime Performance: 1.0114789009094238 seconds
```

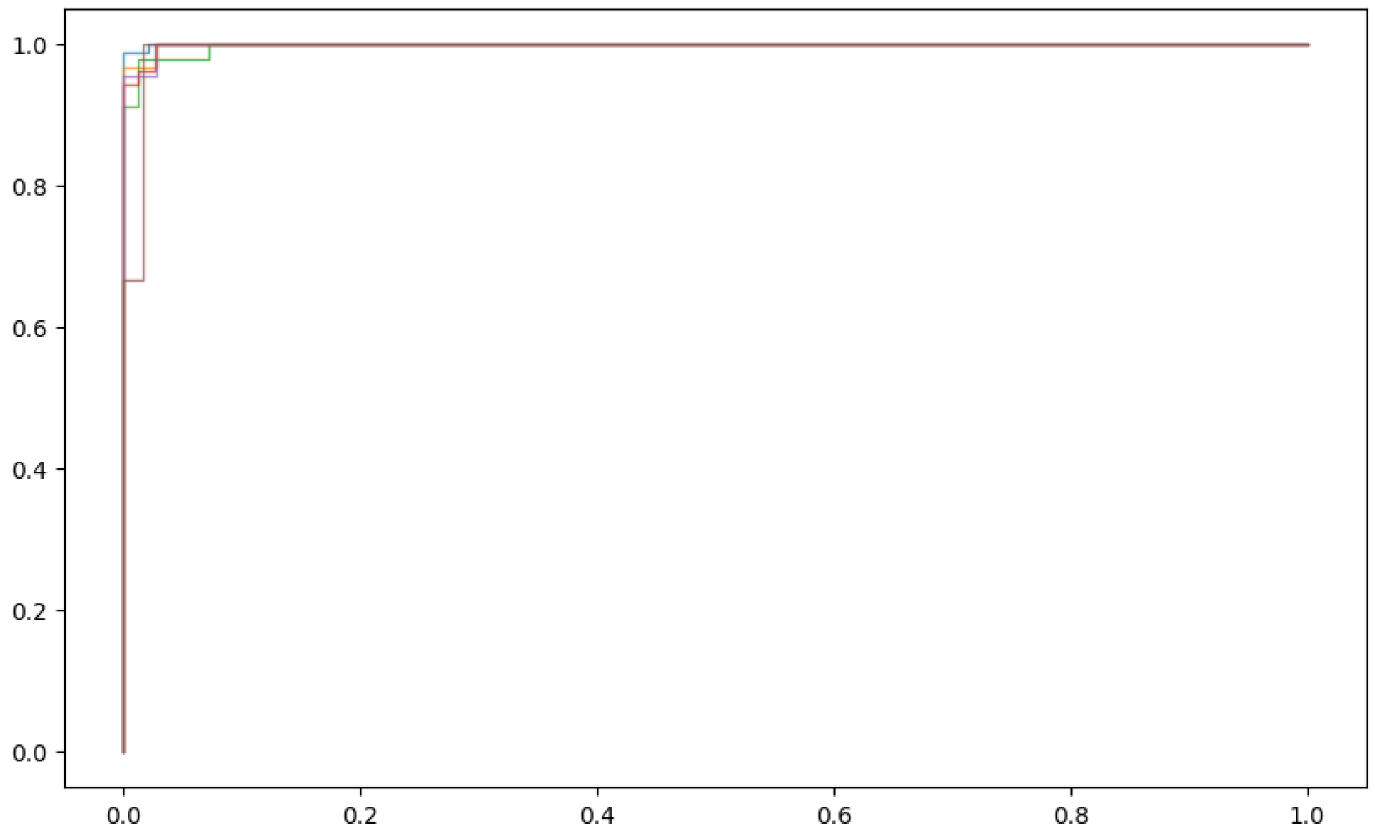
When the statistics (min-max and mean values) are considered, mean absolute error is acceptable.

Runtime performance is better than the classifier model so it is good enough for a ML model but again, it would be faster. These KNN models might have a problem with large datasets because of distance calculation.

Part 3 : Linear SVM Classifier

In [22]:
```
def linear_svm_classifier(X_train, y_train):
    svm_classifier = SVC(kernel='linear', probability=True)

    # Perform 6-fold cross-validation
    kf = KFold(n_splits=6)
    rocs = []
    aucs = []
    conf_matrices = []

    for train_index, test_index in kf.split(X_train):
        # Split the dataset
        X_train_splitted, X_test_splitted = X_train.iloc[train_index], X_train.iloc[test
        y_train_splitted, y_test_splitted = y_train.iloc[train_index], y_train.iloc[test

        # Train the model
        svm_classifier.fit(X_train_splitted, y_train_splitted)

        # Get the ROC curve
        y_probs = svm_classifier.predict_proba(X_test_splitted)[:, 1]
        fpr, tpr, threshold = roc_curve(y_test_splitted, y_probs)
        ROC = [{'fpr': f, 'tpr': t, 'threshold': th} for f, t, th in zip(fpr, tpr, thres
        rocs.append(ROC)

        # Compute AUC
        roc_auc = auc(fpr, tpr)
        aucs.append(roc_auc)

        # Compute confusion matrix
        y_pred = svm_classifier.predict(X_test_splitted)
        conf_matrices.append(confusion_matrix_custom(y_test_splitted, y_pred))


    plt.figure(figsize=(10, 6))
    for i in range(len(rocs)):
        fpr_values = [entry['fpr'] for entry in rocs[i]]
        tpr_values = [entry['tpr'] for entry in rocs[i]]
        plt.plot(fpr_values, tpr_values, lw=1, alpha=0.7,
                 label='ROC fold %d (AUC = %0.2f)' % (i, aucs[i]))

    # Calculate mean confusion matrix
    mean_conf_matrix = np.mean(conf_matrices, axis=0)
    normalized_conf_matrix = mean_conf_matrix.astype('float') / mean_conf_matrix.sum(axi

    print("Normalized Mean Confusion Matrix:")
    print(normalized_conf_matrix)

    # Find the best threshold
    best_threshold = None
    max_diff = -1

    for roc_list in rocs:
        for roc in roc_list:
            fpr_value = roc['fpr']
            tpr_value = roc['tpr']
            threshold = roc['threshold']
            diff = tpr_value - fpr_value # Calculate the difference between tpr and fpr
            if diff > max_diff: # Maximize this difference
                max_diff = diff
                best_threshold = threshold
    print("Best threshold:", best_threshold)

start_time = time.time()
linear_svm_classifier(X_audit, y_audit)
end_time = time.time()
print("Runtime Performance:", end_time - start_time, "seconds")
```

```
Normalized Mean Confusion Matrix:
[[0.99150743 0.00849257]
 [0.02622951 0.97377049]]
Best threshold: 0.4058095251132911
Runtime Performance: 0.14642977714538574 seconds
```



Confusion matrix says: True Negatives = 0.992, False Negatives = 0.026, True Positives = 0.974, False Positives = 0.008

Accuracy : 0.98 , Precision : 0.99, Recall : 0.97

SVM performs better than KNN models since it also handles the false negatives very well.

Runtime performance is also better than KNN's performance.

For the ROC curve graph, it shows a good result for the model since the curve is very close the northwest point of the graph.

The best threshold is found by calculating the difference between tpr and fpr. The point that maximizes this difference gives the best threshold because this point is the most optimal point at northwest. According to this, the best threshold is 0.41.

Part 4 : Linear SVM Regressor

```
In [23]: def linear_svm_regressor(X_train, y_train):

             # Initialize Linear SVM Regressor
             svm_regressor = SVR(kernel='linear')

             # Perform 6-fold cross-validation
             kf = KFold(n_splits=6)
             mae_values = []
             for train_index, test_index in kf.split(X_train):
                 # Split the dataset
                 X_train_splitted, X_test_splitted = X_train.iloc[train_index], X_train.iloc[test
                 y_train_splitted, y_test_splitted = y_train.iloc[train_index], y_train.iloc[test

                 # Train the model
                 svm_regressor.fit(X_train_splitted, y_train_splitted)

                 # Predict on the test set
                 y_pred = svm_regressor.predict(X_test_splitted)

                 # Calculate mean absolute error
                 mae = mean_absolute_error(y_test_splitted, y_pred)
                 mae_values.append(mae)

             # Calculate mean MAE
             mean_mae = np.mean(mae_values)

             # Print mean MAE
             print("Mean Absolute Error:", mean_mae)


         start_time = time.time()
         linear_svm_regressor(X_day, y_day)
         end_time = time.time()
         print("Runtime Performance:", end_time - start_time, "seconds")
```

```
Mean Absolute Error: 768.4509629776582
Runtime Performance: 0.13226318359375 seconds
```

Mean absolute error is lower than the KNN regressor. This means that SVM regressor is better than KNN for this dataset.

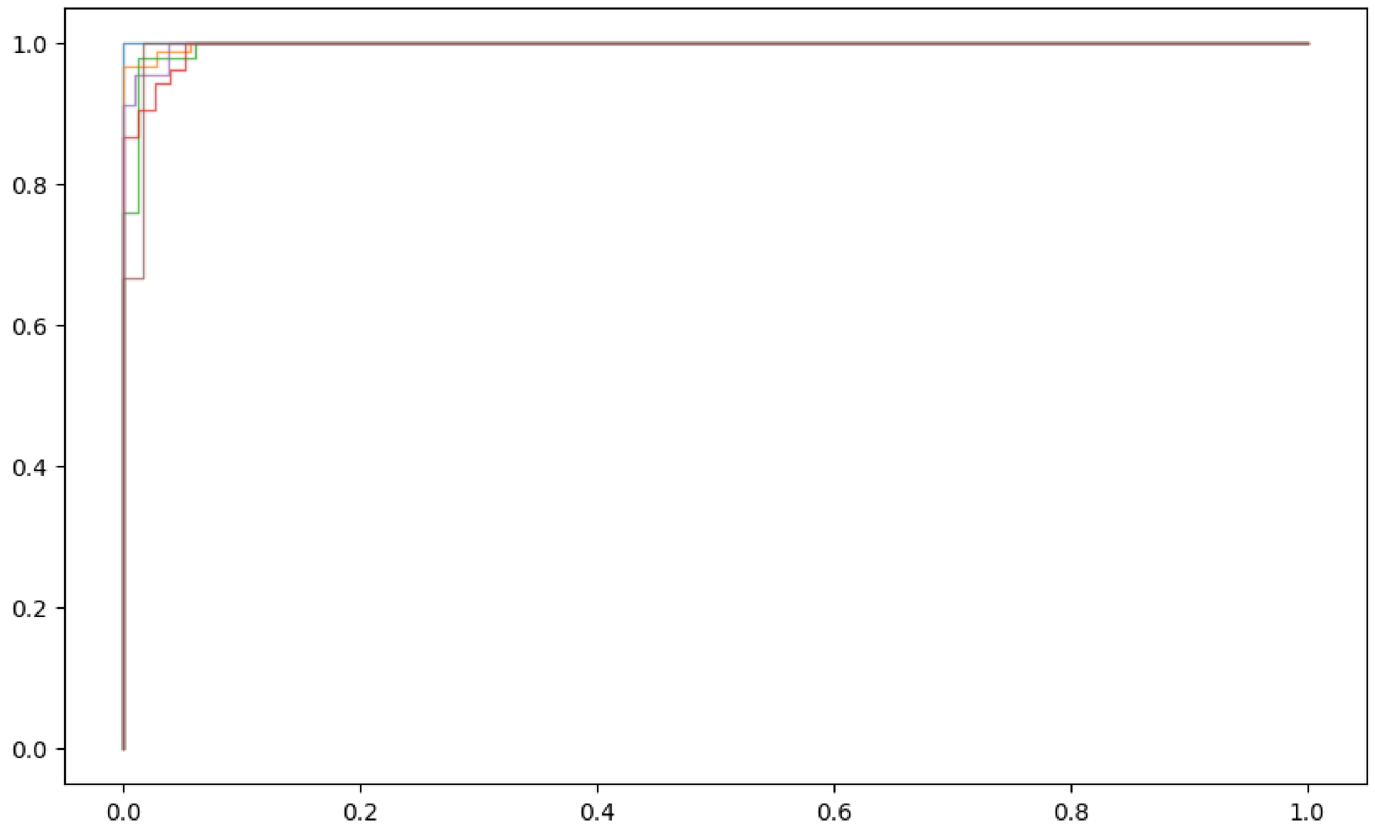
Runtime performance is also significantly better than KNN implementations. Therefore, SVM performs very well for this case.

Part 5 : Radial Basis Function SVM Classifier

```
In [24]: def rbf_svm_classifier(X_train, y_train):
             svm_classifier = SVC(kernel='rbf', probability=True)

             # Perform 6-fold cross-validation
             kf = KFold(n_splits=6)
             rocs = []
             aucs = []
             conf_matrices = []

             for train_index, test_index in kf.split(X_train):
                 # Split the dataset
                 X_train_splitted, X_test_splitted = X_train.iloc[train_index], X_train.iloc[test
                 y_train_splitted, y_test_splitted = y_train.iloc[train_index], y_train.iloc[test

                 # Train the model
```

```
        svm_classifier.fit(X_train_splitted, y_train_splitted)

        # Get the ROC curve
        y_probs = svm_classifier.predict_proba(X_test_splitted)[:, 1]
        fpr, tpr, threshold = roc_curve(y_test_splitted, y_probs)
        ROC = [{'fpr': f, 'tpr': t, 'threshold': th} for f, t, th in zip(fpr, tpr, thres
        rocs.append(ROC)

        # Compute AUC
        roc_auc = auc(fpr, tpr)
        aucs.append(roc_auc)

        # Compute confusion matrix
        y_pred = svm_classifier.predict(X_test_splitted)
        conf_matrices.append(confusion_matrix_custom(y_test_splitted, y_pred))


    plt.figure(figsize=(10, 6))
    for i in range(len(rocs)):
        fpr_values = [entry['fpr'] for entry in rocs[i]]
        tpr_values = [entry['tpr'] for entry in rocs[i]]
        plt.plot(fpr_values, tpr_values, lw=1, alpha=0.7,
                 label='ROC fold %d (AUC = %0.2f)' % (i, aucs[i]))

    # Calculate mean confusion matrix
    mean_conf_matrix = np.mean(conf_matrices, axis=0)
    normalized_conf_matrix = mean_conf_matrix.astype('float') / mean_conf_matrix.sum(axi

    print("Normalized Mean Confusion Matrix:")
    print(normalized_conf_matrix)

    # Find the best threshold
    best_threshold = None
    max_diff = -1

    for roc_list in rocs:
        for roc in roc_list:
            fpr_value = roc['fpr']
            tpr_value = roc['tpr']
            threshold = roc['threshold']
            diff = tpr_value - fpr_value # Calculate the difference between tpr and fpr
            if diff > max_diff: # Maximize this difference
                max_diff = diff
                best_threshold = threshold


    print("Best threshold:", best_threshold)

start_time = time.time()
rbf_svm_classifier(X_audit, y_audit)
end_time = time.time()
print("Runtime Performance:", end_time - start_time, "seconds")
```

```
Normalized Mean Confusion Matrix:
[[0.98938429 0.01061571]
 [0.05245902 0.94754098]]
Best threshold: 0.10264766787637425
Runtime Performance: 0.11210322380065918 seconds
```



Confusion matrix says: True Negatives = 0.989, False Negatives = 0.052, True Positives = 0.948, False Positives = 0.011

Accuracy : 0.97 , Precision : 0.99, Recall : 0.95

SVM with radial basis function has considerably good performance. Its metric (accuracy and recall) values are slightly lower than linear SVM. However, it is still much better than KNN.

Runtime performance is similar to linear SVM. Overall, it has a great performance.

For the ROC curve graph, it shows a great result as linear SVM does.

Using the same technique, the best threshold for this model is 0.10.

Part 6 : Decision Tree Classifier

In [25]:
```
def dt_classifier(X_train, y_train):

    # Build the decision trees with two pruning options
    dt_classifier_pre_pruned = DecisionTreeClassifier(criterion='entropy', max_depth=2)
    dt_classifier_post_pruned = DecisionTreeClassifier(criterion='entropy', ccp_alpha=0.

    # Perform 6-fold cross-validation
    kf = KFold(n_splits=6)
    for train_index, test_index in kf.split(X_train):
        # Split the dataset
        X_train_splitted, X_test_splitted = X_train.iloc[train_index], X_train.iloc[test
        y_train_splitted, y_test_splitted = y_train.iloc[train_index], y_train.iloc[test

        # Train pre-pruned tree
        dt_classifier_pre_pruned.fit(X_train_splitted, y_train_splitted)

        # Train post-pruned tree
        dt_classifier_post_pruned.fit(X_train_splitted, y_train_splitted)

        # Evaluate the tree
        pre_pruning_test_score = dt_classifier_pre_pruned.score(X_test_splitted, y_test_
        post_pruning_test_score = dt_classifier_post_pruned.score(X_test_splitted, y_tes

        print("Pre-Pruning Tree Accuracy:", pre_pruning_test_score)
        print("Post-Pruning Tree Accuracy:", post_pruning_test_score)

    return dt_classifier_pre_pruned, dt_classifier_post_pruned

dt_classifier_pre_pruned, dt_classifier_post_pruned = dt_classifier(X_audit, y_audit)
```

```
Pre-Pruning Tree Accuracy: 1.0
Post-Pruning Tree Accuracy: 1.0
Pre-Pruning Tree Accuracy: 0.9923076923076923
Post-Pruning Tree Accuracy: 1.0
Pre-Pruning Tree Accuracy: 0.9844961240310077
Post-Pruning Tree Accuracy: 0.9922480620155039
Pre-Pruning Tree Accuracy: 0.9844961240310077
Post-Pruning Tree Accuracy: 1.0
Pre-Pruning Tree Accuracy: 0.9922480620155039
Post-Pruning Tree Accuracy: 1.0
Pre-Pruning Tree Accuracy: 1.0
Post-Pruning Tree Accuracy: 1.0
```

Pre-pruning is set to the depth 2. Post-pruning is set to the ccp_alpha 0.01 (Minimal cost-complexity pruning is an algorithm used to prune a tree to avoid over-fitting).

Pre-pruning results depend on the chosen depth. For this choice, it is not as accurate as post-pruning tree. However, the results from the both trees are almost 1 so this says there might be overfitting.

When we look at the extracted rules below, we can see that post-pruning tree has more branches and pre-pruning tree is limited to the depth 2.

In [26]:
```
def extract_rules(tree, feature_names, node, is_classification, indent=""):
    if tree.feature[node] != -2:
        feature = feature_names[tree.feature[node]]
        threshold = tree.threshold[node]
        print(f"{indent}|--- {feature} <= {threshold:.2f}")
        extract_rules(tree, feature_names, tree.children_left[node], is_classification,
        print(f"{indent}|--- {feature} > {threshold:.2f}")
        extract_rules(tree, feature_names, tree.children_right[node], is_classification,
    else:
        if is_classification:
            value = int(tree.value[node].argmax())  # Get the class with the highest cou
            print(f"{indent}|--- class: {value}")
        else:
            value = tree.value[node][0][0]  # Predicted value for regression
            print(f"{indent}|--- value: {value:.2f}")
```

In [27]:
```
print("Pre-pruning Tree Rules:")
extract_rules(dt_classifier_pre_pruned.tree_, columns_to_normalize_audit, 0, True)
```

```
Pre-pruning Tree Rules:
|--- Inherent_Risk <= -0.23
|   |--- CONTROL_RISK <= 0.96
|   |   |--- class: 0
|   |--- CONTROL_RISK >  0.96
|   |   |--- class: 1
|--- Inherent_Risk >  -0.23
|   |--- class: 1
```

In [28]:
```
print("Post-pruning Tree Rules:")
extract_rules(dt_classifier_post_pruned.tree_, columns_to_normalize_audit, 0, True)
```

```
Post-pruning Tree Rules:
|--- Inherent_Risk <= -0.23
|   |--- RiSk_E <= 1.66
|   |   |--- District_Loss <= 0.40
|   |   |   |--- class: 0
|   |   |--- District_Loss >  0.40
|   |   |   |--- TOTAL <= -0.22
|   |   |   |   |--- class: 0
|   |   |   |--- TOTAL >  -0.22
|   |   |   |   |--- class: 1
|   |--- RiSk_E >  1.66
|   |   |--- class: 1
|--- Inherent_Risk >  -0.23
|   |--- class: 1
```

Part 7 : Decision Tree Regressor

In [29]:
```
def dt_regressor(X_train, y_train):

    # Build the decision trees with two pruning options
    dt_regressor_pre_pruned = DecisionTreeRegressor(max_depth=2)
    dt_regressor_post_pruned = DecisionTreeRegressor(ccp_alpha=0.01)

    # Perform 6-fold cross-validation
    kf = KFold(n_splits=6)
    for train_index, test_index in kf.split(X_train):
        # Split the dataset
        X_train_splitted, X_test_splitted = X_train.iloc[train_index], X_train.iloc[test
        y_train_splitted, y_test_splitted = y_train.iloc[train_index], y_train.iloc[test

        # Train pre-pruned tree
        dt_regressor_pre_pruned.fit(X_train_splitted, y_train_splitted)

        # Train post-pruned tree
        dt_regressor_post_pruned.fit(X_train_splitted, y_train_splitted)

        # Evaluate the tree
        pre_pruning_test_score = dt_regressor_pre_pruned.score(X_test_splitted, y_test_s
        post_pruning_test_score = dt_regressor_post_pruned.score(X_test_splitted, y_test

        print("Pre-Pruning Tree Accuracy:", pre_pruning_test_score)
        print("Post-Pruning Tree Accuracy:", post_pruning_test_score)

    return dt_regressor_pre_pruned, dt_regressor_post_pruned

dt_regressor_pre_pruned, dt_regressor_post_pruned = dt_regressor(X_day, y_day)
```

```
Pre-Pruning Tree Accuracy: 0.49714385943456774
Post-Pruning Tree Accuracy: 0.9328960424997911
Pre-Pruning Tree Accuracy: -1.083655952604818
Post-Pruning Tree Accuracy: 0.7623804402548249
```

```
Pre-Pruning Tree Accuracy: 0.5643271599067563
Post-Pruning Tree Accuracy: 0.9753097555904336
Pre-Pruning Tree Accuracy: 0.6245547167521159
Post-Pruning Tree Accuracy: 0.9731921597117443
Pre-Pruning Tree Accuracy: -0.2717478889370015
Post-Pruning Tree Accuracy: 0.8638210190396074
Pre-Pruning Tree Accuracy: 0.6327545040190842
Post-Pruning Tree Accuracy: 0.973264114906303
```

Pre-pruning is set the depth 2. Post-pruning is set to the ccp_alpha 0.01 (Minimal cost-complexity pruning is an algorithm used to prune a tree to avoid over-fitting).

Pre-pruning tree works poorly since we can see that the accuracy is too low and even negative for some cases. (The best possible score is 1.0 and it can be negative (because the model can be arbitrarily worse)) Post-pruning works better. For some cases it is as low as 0.76 but it can be as high as 0.97.

However, when we look at the extracted rules of the post-pruning tree below, we can see that the tree is too complex. Having a complex tree is not something we want.

In [30]:
```python
print("Pre-pruning Tree Rules:")
extract_rules(dt_regressor_pre_pruned.tree_, columns_to_normalize_day, 0, False)
```

```
Pre-pruning Tree Rules:
|--- registered <= -0.48
|   |--- registered <= -0.99
|   |   |--- value: 1695.79
|   |--- registered > -0.99
|   |   |--- value: 3279.07
|--- registered > -0.48
|   |--- instant <= 0.34
|   |   |--- value: 4415.41
|   |--- instant > 0.34
|   |   |--- value: 6486.15
```

In [31]:
```python
print("Post-pruning Tree Rules:")
extract_rules(dt_regressor_post_pruned.tree_, columns_to_normalize_day, 0, False)
```

```
Post-pruning Tree Rules:
|--- registered <= -0.48
|   |--- registered <= -0.99
|   |   |--- registered <= -1.45
|   |   |   |--- registered <= -1.75
|   |   |   |   |--- registered <= -1.83
|   |   |   |   |   |--- registered <= -1.95
|   |   |   |   |   |   |--- mnth <= -1.31
|   |   |   |   |   |   |   |--- instant <= -1.61
|   |   |   |   |   |   |   |   |--- value: 506.00
|   |   |   |   |   |   |   |--- instant > -1.61
|   |   |   |   |   |   |   |   |--- value: 431.00
|   |   |   |   |   |   |--- mnth > -1.31
|   |   |   |   |   |   |   |--- weathersit <= 0.19
|   |   |   |   |   |   |   |   |--- value: 754.00
|   |   |   |   |   |   |   |--- weathersit > 0.19
|   |   |   |   |   |   |   |   |--- hum <= 2.02
|   |   |   |   |   |   |   |   |   |--- temp <= -0.95
|   |   |   |   |   |   |   |   |   |   |--- value: 627.00
|   |   |   |   |   |   |   |   |   |--- temp > -0.95
|   |   |   |   |   |   |   |   |   |   |--- value: 623.00
|   |   |   |   |   |   |   |   |--- hum > 2.02
|   |   |   |   |   |   |   |   |   |--- value: 605.00
|   |   |   |   |   |--- registered > -1.95
|   |   |   |   |   |   |--- registered <= -1.93
|   |   |   |   |   |   |   |--- value: 985.00
|   |   |   |   |   |   |--- registered > -1.93
|   |   |   |   |   |   |   |--- casual <= -1.16
|   |   |   |   |   |   |   |   |--- windspeed <= 0.21
|   |   |   |   |   |   |   |   |   |--- value: 683.00
|   |   |   |   |   |   |   |   |--- windspeed > 0.21
|   |   |   |   |   |   |   |   |   |--- value: 705.00
|   |   |   |   |   |   |   |--- casual > -1.16
|   |   |   |   |   |   |   |   |--- registered <= -1.88
|   |   |   |   |   |   |   |   |   |--- instant <= -1.48
|   |   |   |   |   |   |   |   |   |   |--- value: 801.00
|   |   |   |   |   |   |   |   |   |--- instant > -1.48
|   |   |   |   |   |   |   |   |   |   |--- value: 795.00
|   |   |   |   |   |   |   |   |--- registered > -1.88
|   |   |   |   |   |   |   |   |   |--- value: 822.00
|   |   |   |   |--- registered > -1.83
|   |   |   |   |   |--- casual <= -0.76
|   |   |   |   |   |   |--- casual <= -0.98
|   |   |   |   |   |   |   |--- temp <= -1.78
|   |   |   |   |   |   |   |   |--- registered <= -1.77
|   |   |   |   |   |   |   |   |   |--- instant <= -1.63
|   |   |   |   |   |   |   |   |   |   |--- value: 981.00
|   |   |   |   |   |   |   |   |   |--- instant > -1.63
|   |   |   |   |   |   |   |   |   |   |--- value: 986.00
|   |   |   |   |   |   |   |   |--- registered > -1.77
|   |   |   |   |   |   |   |   |   |--- value: 959.00
|   |   |   |   |   |   |   |--- temp > -1.78
|   |   |   |   |   |   |   |   |--- temp <= -0.80
|   |   |   |   |   |   |   |   |   |--- temp <= -1.24
|   |   |   |   |   |   |   |   |   |   |--- temp <= -1.59
|   |   |   |   |   |   |   |   |   |   |   |--- value: 1000.00
|   |   |   |   |   |   |   |   |   |   |--- temp > -1.59
|   |   |   |   |   |   |   |   |   |   |   |--- value: 1005.00
|   |   |   |   |   |   |   |   |   |--- temp > -1.24
|   |   |   |   |   |   |   |   |   |   |--- value: 1011.00
|   |   |   |   |   |   |   |   |--- temp > -0.80
|   |   |   |   |   |   |   |   |   |--- value: 1027.00
|   |   |   |   |   |   |--- casual > -0.98
|   |   |   |   |   |   |   |--- atemp <= -0.09
|   |   |   |   |   |   |   |   |--- value: 1107.00
|   |   |   |   |   |   |   |--- atemp > -0.09
|   |   |   |   |   |   |   |   |--- value: 1115.00
|   |   |   |   |   |--- casual > -0.76
|   |   |   |   |   |   |--- value: 1317.00
|   |   |   |--- registered > -1.75
|   |   |   |   |--- casual <= -0.77
|   |   |   |   |   |--- registered <= -1.60
|   |   |   |   |   |   |--- hum <= -0.55
|   |   |   |   |   |   |   |--- atemp <= -1.43
|   |   |   |   |   |   |   |   |--- value: 1204.00
|   |   |   |   |   |   |   |--- atemp > -1.43
|   |   |   |   |   |   |   |   |--- value: 1248.00
|   |   |   |   |   |   |--- hum > -0.55
|   |   |   |   |   |   |   |--- registered <= -1.69
|   |   |   |   |   |   |   |   |--- value: 1097.00
|   |   |   |   |   |   |   |--- registered > -1.69
|   |   |   |   |   |   |   |   |--- hum <= 1.05
|   |   |   |   |   |   |   |   |   |--- value: 1162.00
|   |   |   |   |   |   |   |   |--- hum > 1.05
|   |   |   |   |   |   |   |   |   |--- value: 1167.00
|   |   |   |   |   |--- registered > -1.60
|   |   |   |   |   |   |--- temp <= -1.63
|   |   |   |   |   |   |   |--- registered <= -1.50
|   |   |   |   |   |   |   |   |--- temp <= -1.71
|   |   |   |   |   |   |   |   |   |--- registered <= -1.56
|   |   |   |   |   |   |   |   |   |   |--- value: 1263.00
|   |   |   |   |   |   |   |   |   |--- registered > -1.56
|   |   |   |   |   |   |   |   |   |   |--- casual <= -1.16
|   |   |   |   |   |   |   |   |   |   |   |--- value: 1321.00
|   |   |   |   |   |   |   |   |   |   |--- casual > -1.16
|   |   |   |   |   |   |   |   |   |   |   |--- value: 1301.00
|   |   |   |   |   |   |   |   |--- temp > -1.71
|   |   |   |   |   |   |   |   |   |--- temp <= -1.65
|   |   |   |   |   |   |   |   |   |   |--- value: 1360.00
|   |   |   |   |   |   |   |   |   |--- temp > -1.65
|   |   |   |   |   |   |   |   |   |   |--- value: 1349.00
|   |   |   |   |   |   |   |--- registered > -1.50
|   |   |   |   |   |   |   |   |--- temp <= -1.76
|   |   |   |   |   |   |   |   |   |--- temp <= -1.82
|   |   |   |   |   |   |   |   |   |   |--- atemp <= -1.97
|   |   |   |   |   |   |   |   |   |   |   |--- value: 1416.00
|   |   |   |   |   |   |   |   |   |   |--- atemp > -1.97
|   |   |   |   |   |   |   |   |   |   |   |--- value: 1421.00
|   |   |   |   |   |   |   |   |   |--- temp > -1.82
|   |   |   |   |   |   |   |   |   |   |--- value: 1406.00
|   |   |   |   |   |   |   |   |--- temp > -1.76
|   |   |   |   |   |   |   |   |   |--- value: 1450.00
|   |   |   |   |   |   |--- temp > -1.63
|   |   |   |   |   |   |   |--- windspeed <= -0.03
|   |   |   |   |   |   |   |   |--- hum <= -0.39
|   |   |   |   |   |   |   |   |   |--- value: 1510.00
|   |   |   |   |   |   |   |   |--- hum > -0.39
|   |   |   |   |   |   |   |   |   |--- value: 1536.00
|   |   |   |   |   |   |   |--- windspeed > -0.03
|   |   |   |   |   |   |   |   |--- temp <= -0.60
|   |   |   |   |   |   |   |   |   |--- windspeed <= 1.24
|   |   |   |   |   |   |   |   |   |   |--- value: 1471.50
|   |   |   |   |   |   |   |   |   |--- windspeed > 1.24
|   |   |   |   |   |   |   |   |   |   |--- value: 1461.00
|   |   |   |   |   |   |   |   |--- temp > -0.60
|   |   |   |   |   |   |   |   |   |--- value: 1446.00
|   |   |   |   |--- casual > -0.77
|   |   |   |   |   |--- registered <= -1.50
|   |   |   |   |   |   |--- temp <= -1.15
|   |   |   |   |   |   |   |--- temp <= -1.24
|   |   |   |   |   |   |   |   |--- value: 1693.00
|   |   |   |   |   |   |   |--- temp > -1.24
|   |   |   |   |   |   |   |   |--- value: 1812.00
|   |   |   |   |   |   |--- temp > -1.15
|   |   |   |   |   |   |   |--- holiday <= 2.82
|   |   |   |   |   |   |   |   |--- casual <= -0.56
|   |   |   |   |   |   |   |   |   |--- casual <= -0.69
|   |   |   |   |   |   |   |   |   |   |--- value: 1623.00
|   |   |   |   |   |   |   |   |   |--- casual > -0.69
|   |   |   |   |   |   |   |   |   |   |--- value: 1589.00
|   |   |   |   |   |   |   |   |--- casual > -0.56
|   |   |   |   |   |   |   |   |   |--- value: 1635.00
|   |   |   |   |   |   |   |--- holiday > 2.82
|   |   |   |   |   |   |   |   |--- value: 1495.00
|   |   |   |   |   |--- registered > -1.50
|   |   |   |   |   |   |--- value: 2252.00
|   |   |--- registered > -1.45
|   |   |   |--- casual <= -0.58
|   |   |   |   |--- registered <= -1.27
|   |   |   |   |   |--- casual <= -1.07
|   |   |   |   |   |   |--- registered <= -1.38
|   |   |   |   |   |   |   |--- casual <= -1.17
|   |   |   |   |   |   |   |   |--- value: 1501.00
|   |   |   |   |   |   |   |--- casual > -1.17
|   |   |   |   |   |   |   |   |--- casual <= -1.10
|   |   |   |   |   |   |   |   |   |--- hum <= -1.17
|   |   |   |   |   |   |   |   |   |   |--- temp <= -1.71
|   |   |   |   |   |   |   |   |   |   |   |--- hum <= -1.27
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 1538.00
|   |   |   |   |   |   |   |   |   |   |   |--- hum > -1.27
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 1543.00
|   |   |   |   |   |   |   |   |   |   |--- temp > -1.71
|   |   |   |   |   |   |   |   |   |   |   |--- value: 1550.00
|   |   |   |   |   |   |   |   |   |--- hum > -1.17
|   |   |   |   |   |   |   |   |   |   |--- registered <= -1.41
|   |   |   |   |   |   |   |   |   |   |   |--- value: 1526.00
|   |   |   |   |   |   |   |   |   |   |--- registered > -1.41
|   |   |   |   |   |   |   |   |   |   |   |--- value: 1529.50
|   |   |   |   |   |   |   |   |--- casual > -1.10
|   |   |   |   |   |   |   |   |   |--- value: 1562.00
|   |   |   |   |   |   |--- registered > -1.38
|   |   |   |   |   |   |   |--- weekday <= 0.75
|   |   |   |   |   |   |   |   |--- windspeed <= 0.10
|   |   |   |   |   |   |   |   |   |--- hum <= -1.14
|   |   |   |   |   |   |   |   |   |   |--- value: 1600.00
|   |   |   |   |   |   |   |   |   |--- hum > -1.14
|   |   |   |   |   |   |   |   |   |   |--- value: 1606.00
|   |   |   |   |   |   |   |   |--- windspeed > 0.10
|   |   |   |   |   |   |   |   |   |--- value: 1650.00
|   |   |   |   |   |   |   |--- weekday > 0.75
|   |   |   |   |   |   |   |   |--- value: 1708.00
|   |   |   |   |   |--- casual > -1.07
|   |   |   |   |   |   |--- casual <= -0.93
|   |   |   |   |   |   |   |--- registered <= -1.31
|   |   |   |   |   |   |   |   |--- temp <= -1.65
|   |   |   |   |   |   |   |   |   |--- value: 1746.00
|   |   |   |   |   |   |   |   |--- temp > -1.65
|   |   |   |   |   |   |   |   |   |--- mnth <= -1.17
|   |   |   |   |   |   |   |   |   |   |--- value: 1712.00
|   |   |   |   |   |   |   |   |   |--- mnth > -1.17
|   |   |   |   |   |   |   |   |   |   |--- value: 1684.33
|   |   |   |   |   |   |   |--- registered > -1.31
|   |   |   |   |   |   |   |   |--- registered <= -1.29
|   |   |   |   |   |   |   |   |   |--- value: 1795.00
|   |   |   |   |   |   |   |   |--- registered > -1.29
|   |   |   |   |   |   |   |   |   |--- value: 1816.00
|   |   |   |   |   |   |--- casual > -0.93
|   |   |   |   |   |   |   |--- instant <= -1.44
|   |   |   |   |   |   |   |   |--- value: 1969.00
|   |   |   |   |   |   |   |--- instant > -1.44
|   |   |   |   |   |   |   |   |--- value: 1872.00
|   |   |   |   |--- registered > -1.27
|   |   |   |   |   |--- registered <= -1.15
|   |   |   |   |   |   |--- casual <= -0.92
|   |   |   |   |   |   |   |--- atemp <= -1.32
|   |   |   |   |   |   |   |   |--- hum <= -0.10
|   |   |   |   |   |   |   |   |   |--- casual <= -0.98
|   |   |   |   |   |   |   |   |   |   |--- atemp <= -1.38
|   |   |   |   |   |   |   |   |   |   |   |--- value: 1917.00
|   |   |   |   |   |   |   |   |   |   |--- atemp > -1.38
|   |   |   |   |   |   |   |   |   |   |   |--- value: 1927.00
|   |   |   |   |   |   |   |   |   |--- casual > -0.98
|   |   |   |   |   |   |   |   |   |   |--- value: 1944.00
|   |   |   |   |   |   |   |   |--- hum > -0.10
|   |   |   |   |   |   |   |   |   |--- workingday <= -0.40
|   |   |   |   |   |   |   |   |   |   |--- value: 1977.00
|   |   |   |   |   |   |   |   |   |--- workingday > -0.40
|   |   |   |   |   |   |   |   |   |   |--- value: 1985.00
|   |   |   |   |   |   |   |--- atemp > -1.32
|   |   |   |   |   |   |   |   |--- casual <= -0.98
|   |   |   |   |   |   |   |   |   |--- instant <= -1.46
|   |   |   |   |   |   |   |   |   |   |--- value: 1807.00
|   |   |   |   |   |   |   |   |   |--- instant > -1.46
|   |   |   |   |   |   |   |   |   |   |--- windspeed <= 0.18
|   |   |   |   |   |   |   |   |   |   |   |--- temp <= -0.03
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 1834.00
|   |   |   |   |   |   |   |   |   |   |   |--- temp > -0.03
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 1842.00
|   |   |   |   |   |   |   |   |   |   |--- windspeed > 0.18
|   |   |   |   |   |   |   |   |   |   |   |--- hum <= 0.30
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 1851.00
|   |   |   |   |   |   |   |   |   |   |   |--- hum > 0.30
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 1865.00
|   |   |   |   |   |   |   |   |--- casual > -0.98
|   |   |   |   |   |   |   |   |   |--- mnth <= -1.17
|   |   |   |   |   |   |   |   |   |   |--- value: 1913.00
|   |   |   |   |   |   |   |   |   |--- mnth > -1.17
|   |   |   |   |   |   |   |   |   |   |--- value: 1891.00
|   |   |   |   |   |   |--- casual > -0.92
|   |   |   |   |   |   |   |--- casual <= -0.87
|   |   |   |   |   |   |   |   |--- season <= -0.90
|   |   |   |   |   |   |   |   |   |--- weekday <= 0.00
|   |   |   |   |   |   |   |   |   |   |--- value: 1951.00
|   |   |   |   |   |   |   |   |   |--- weekday > 0.00
|   |   |   |   |   |   |   |   |   |   |--- value: 1977.00
|   |   |   |   |   |   |   |   |--- season > -0.90
|   |   |   |   |   |   |   |   |   |--- value: 2028.00
|   |   |   |   |   |   |   |--- casual > -0.87
|   |   |   |   |   |   |   |   |--- atemp <= -1.01
|   |   |   |   |   |   |   |   |   |--- value: 2133.00
|   |   |   |   |   |   |   |   |--- atemp > -1.01
|   |   |   |   |   |   |   |   |   |--- casual <= -0.68
|   |   |   |   |   |   |   |   |   |   |--- hum <= 0.49
|   |   |   |   |   |   |   |   |   |   |   |--- instant <= -1.39
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 2046.00
|   |   |   |   |   |   |   |   |   |   |   |--- instant > -1.39
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 2056.00
|   |   |   |   |   |   |   |   |   |   |--- hum > 0.49
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2034.00
|   |   |   |   |   |   |   |   |   |--- casual > -0.68
|   |   |   |   |   |   |   |   |   |   |--- value: 2077.00
|   |   |   |   |   |--- registered > -1.15
|   |   |   |   |   |   |--- weekday <= -0.25
|   |   |   |   |   |   |   |--- hum <= -1.84
|   |   |   |   |   |   |   |   |--- value: 2425.00
|   |   |   |   |   |   |   |--- hum > -1.84
|   |   |   |   |   |   |   |   |--- registered <= -1.03
|   |   |   |   |   |   |   |   |   |--- value: 2311.00
|   |   |   |   |   |   |   |   |--- registered > -1.03
|   |   |   |   |   |   |   |   |   |--- value: 2298.00
|   |   |   |   |   |   |--- weekday > -0.25
|   |   |   |   |   |   |   |--- season <= 0.00
|   |   |   |   |   |   |   |   |--- casual <= -0.88
|   |   |   |   |   |   |   |   |   |--- instant <= -1.30
|   |   |   |   |   |   |   |   |   |   |--- windspeed <= 1.15
|   |   |   |   |   |   |   |   |   |   |   |--- casual <= -0.93
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 2121.00
|   |   |   |   |   |   |   |   |   |   |   |--- casual > -0.93
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 2115.00
|   |   |   |   |   |   |   |   |   |   |--- windspeed > 1.15
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2134.00
|   |   |   |   |   |   |   |   |   |--- instant > -1.30
|   |   |   |   |   |   |   |   |   |   |--- mnth <= 0.43
|   |   |   |   |   |   |   |   |   |   |   |--- hum <= 1.44
|   |   |   |   |   |   |   |   |   |   |   |   |--- temp <= -0.97
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 2169.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- temp > -0.97
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 2162.00
|   |   |   |   |   |   |   |   |   |   |   |--- hum > 1.44
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 2177.00
|   |   |   |   |   |   |   |   |   |   |--- mnth > 0.43
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2209.00
|   |   |   |   |   |   |   |   |--- casual > -0.88
|   |   |   |   |   |   |   |   |   |--- registered <= -1.07
|   |   |   |   |   |   |   |   |   |   |--- temp <= -0.89
|   |   |   |   |   |   |   |   |   |   |   |--- temp <= -1.17
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 2210.00
|   |   |   |   |   |   |   |   |   |   |   |--- temp > -1.17
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 2227.00
|   |   |   |   |   |   |   |   |   |   |--- temp > -0.89
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2192.00
|   |   |   |   |   |   |   |   |   |--- registered > -1.07
|   |   |   |   |   |   |   |   |   |   |--- value: 2302.00
|   |   |   |   |   |   |   |--- season > 0.00
|   |   |   |   |   |   |   |   |--- value: 1996.00
|   |   |   |--- casual > -0.58
|   |   |   |   |--- casual <= 0.32
|   |   |   |   |   |--- instant <= -1.40
|   |   |   |   |   |   |--- registered <= -1.34
|   |   |   |   |   |   |   |--- registered <= -1.43
|   |   |   |   |   |   |   |   |--- value: 2132.00
|   |   |   |   |   |   |   |--- registered > -1.43
|   |   |   |   |   |   |   |   |--- value: 2077.00
|   |   |   |   |   |   |--- registered > -1.34
|   |   |   |   |   |   |   |--- value: 2402.00
|   |   |   |   |   |--- instant > -1.40
|   |   |   |   |   |   |--- registered <= -1.06
|   |   |   |   |   |   |   |--- mnth <= -1.31
|   |   |   |   |   |   |   |   |--- value: 2294.00
|   |   |   |   |   |   |   |--- mnth > -1.31
|   |   |   |   |   |   |   |   |--- windspeed <= 0.71
|   |   |   |   |   |   |   |   |   |--- windspeed <= 0.23
|   |   |   |   |   |   |   |   |   |   |--- instant <= -1.31
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2471.00
|   |   |   |   |   |   |   |   |   |   |--- instant > -1.31
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2455.00
|   |   |   |   |   |   |   |   |   |--- windspeed > 0.23
|   |   |   |   |   |   |   |   |   |   |--- season <= -0.90
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2485.00
|   |   |   |   |   |   |   |   |   |   |--- season > -0.90
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2496.00
|   |   |   |   |   |   |   |   |--- windspeed > 0.71
|   |   |   |   |   |   |   |   |   |--- atemp <= -0.48
|   |   |   |   |   |   |   |   |   |   |--- value: 2417.00
|   |   |   |   |   |   |   |   |   |--- atemp > -0.48
|   |   |   |   |   |   |   |   |   |   |--- value: 2429.00
|   |   |   |   |   |   |--- registered > -1.06
|   |   |   |   |   |   |   |--- value: 2689.00
|   |   |   |   |--- casual > 0.32
|   |   |   |   |   |--- casual <= 0.54
|   |   |   |   |   |   |--- weekday <= -0.25
|   |   |   |   |   |   |   |--- value: 2895.00
|   |   |   |   |   |   |--- weekday > -0.25
|   |   |   |   |   |   |   |--- value: 2792.00
|   |   |   |   |   |--- casual > 0.54
|   |   |   |   |   |   |--- registered <= -1.29
|   |   |   |   |   |   |   |--- value: 3249.00
|   |   |   |   |   |   |--- registered > -1.29
|   |   |   |   |   |   |   |--- windspeed <= 0.36
|   |   |   |   |   |   |   |   |--- value: 3068.00
|   |   |   |   |   |   |   |--- windspeed > 0.36
|   |   |   |   |   |   |   |   |--- value: 3117.00
|   |--- registered > -0.99
|   |   |--- casual <= 0.44
|   |   |   |--- casual <= -0.51
|   |   |   |   |--- registered <= -0.87
|   |   |   |   |   |--- casual <= -0.66
|   |   |   |   |   |   |--- casual <= -1.10
|   |   |   |   |   |   |   |--- value: 2236.00
|   |   |   |   |   |   |--- casual > -1.10
|   |   |   |   |   |   |   |--- casual <= -0.86
|   |   |   |   |   |   |   |   |--- casual <= -1.05
|   |   |   |   |   |   |   |   |   |--- casual <= -1.09
|   |   |   |   |   |   |   |   |   |   |--- value: 2368.00
|   |   |   |   |   |   |   |   |   |--- casual > -1.09
|   |   |   |   |   |   |   |   |   |   |--- value: 2376.00
|   |   |   |   |   |   |   |   |--- casual > -1.05
|   |   |   |   |   |   |   |   |   |--- instant <= -0.43
|   |   |   |   |   |   |   |   |   |   |--- value: 2395.00
|   |   |   |   |   |   |   |   |   |--- instant > -0.43
|   |   |   |   |   |   |   |   |   |   |--- weekday <= -0.50
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2431.50
|   |   |   |   |   |   |   |   |   |   |--- weekday > -0.50
|   |   |   |   |   |   |   |   |   |   |   |--- windspeed <= 0.71
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 2423.50
|   |   |   |   |   |   |   |   |   |   |   |--- windspeed > 0.71
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 2416.00
|   |   |   |   |   |   |   |--- casual > -0.86
|   |   |   |   |   |   |   |   |--- casual <= -0.80
|   |   |   |   |   |   |   |   |   |--- value: 2475.00
|   |   |   |   |   |   |   |   |--- casual > -0.80
|   |   |   |   |   |   |   |   |   |--- value: 2493.00
|   |   |   |   |   |--- casual > -0.66
|   |   |   |   |   |   |--- value: 2703.00
|   |   |   |   |--- registered > -0.87
|   |   |   |   |   |--- registered <= -0.69
|   |   |   |   |   |   |--- casual <= -0.76
|   |   |   |   |   |   |   |--- casual <= -1.00
|   |   |   |   |   |   |   |   |--- season <= 0.00
|   |   |   |   |   |   |   |   |   |--- value: 2660.00
|   |   |   |   |   |   |   |   |--- season > 0.00
|   |   |   |   |   |   |   |   |   |--- temp <= -0.24
|   |   |   |   |   |   |   |   |   |   |--- value: 2566.00
|   |   |   |   |   |   |   |   |   |--- temp > -0.24
|   |   |   |   |   |   |   |   |   |   |--- value: 2594.00
|   |   |   |   |   |   |   |--- casual > -1.00
|   |   |   |   |   |   |   |   |--- instant <= -0.25
|   |   |   |   |   |   |   |   |   |--- hum <= 1.56
|   |   |   |   |   |   |   |   |   |   |--- atemp <= -0.27
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2633.00
|   |   |   |   |   |   |   |   |   |   |--- atemp > -0.27
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2659.00
|   |   |   |   |   |   |   |   |   |--- hum > 1.56
|   |   |   |   |   |   |   |   |   |   |--- value: 2710.00
|   |   |   |   |   |   |   |   |--- instant > -0.25
|   |   |   |   |   |   |   |   |   |--- casual <= -0.88
|   |   |   |   |   |   |   |   |   |   |--- value: 2765.00
|   |   |   |   |   |   |   |   |   |--- casual > -0.88
|   |   |   |   |   |   |   |   |   |--- instant <= 0.09
|   |   |   |   |   |   |   |   |   |   |--- value: 2739.00
|   |   |   |   |   |   |   |   |   |--- instant > 0.09
|   |   |   |   |   |   |   |   |   |   |--- value: 2732.00
|   |   |   |   |   |   |--- casual > -0.76
|   |   |   |   |   |   |   |--- casual <= -0.57
|   |   |   |   |   |   |   |   |--- registered <= -0.82
|   |   |   |   |   |   |   |   |   |--- value: 2743.50
|   |   |   |   |   |   |   |   |--- registered > -0.82
|   |   |   |   |   |   |   |   |   |--- casual <= -0.66
|   |   |   |   |   |   |   |   |   |   |--- season <= -0.90
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2832.00
|   |   |   |   |   |   |   |   |   |   |--- season > -0.90
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2843.00
|   |   |   |   |   |   |   |   |   |--- casual > -0.66
|   |   |   |   |   |   |   |   |   |   |--- value: 2808.00
|   |   |   |   |   |   |   |--- casual > -0.57
|   |   |   |   |   |   |   |   |--- value: 2999.00
|   |   |   |   |   |--- registered > -0.69
|   |   |   |   |   |   |--- hum <= 0.34
|   |   |   |   |   |   |   |--- registered <= -0.51
|   |   |   |   |   |   |   |   |--- value: 3204.00
|   |   |   |   |   |   |   |--- registered > -0.51
|   |   |   |   |   |   |   |   |--- value: 3053.00
|   |   |   |   |   |   |--- hum > 0.34
|   |   |   |   |   |   |   |--- registered <= -0.53
|   |   |   |   |   |   |   |   |--- temp <= -1.28
|   |   |   |   |   |   |   |   |   |--- value: 2802.00
|   |   |   |   |   |   |   |   |--- temp > -1.28
|   |   |   |   |   |   |   |   |   |--- atemp <= -0.38
|   |   |   |   |   |   |   |   |   |   |--- atemp <= -0.98
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2947.00
|   |   |   |   |   |   |   |   |   |   |--- atemp > -0.98
|   |   |   |   |   |   |   |   |   |   |   |--- value: 2934.00
|   |   |   |   |   |   |   |   |   |--- atemp > -0.38
|   |   |   |   |   |   |   |   |   |   |--- value: 2913.50
|   |   |   |   |   |   |   |--- registered > -0.53
|   |   |   |   |   |   |   |   |--- value: 3068.00
|   |   |   |--- casual > -0.51
|   |   |   |   |--- registered <= -0.62
|   |   |   |   |   |--- casual <= -0.02
|   |   |   |   |   |   |--- registered <= -0.83
|   |   |   |   |   |   |   |--- registered <= -0.88
|   |   |   |   |   |   |   |   |--- value: 3071.00
|   |   |   |   |   |   |   |--- registered > -0.88
|   |   |   |   |   |   |   |   |--- instant <= -0.97
|   |   |   |   |   |   |   |   |   |--- value: 2927.00
|   |   |   |   |   |   |   |   |--- instant > -0.97
|   |   |   |   |   |   |   |   |   |--- value: 2918.00
|   |   |   |   |   |   |--- registered > -0.83
|   |   |   |   |   |   |   |--- registered <= -0.64
|   |   |   |   |   |   |   |   |--- windspeed <= 0.05
|   |   |   |   |   |   |   |   |   |--- value: 3141.00
|   |   |   |   |   |   |   |   |--- windspeed > 0.05
|   |   |   |   |   |   |   |   |   |--- workingday <= -0.40
|   |   |   |   |   |   |   |   |   |   |--- value: 3127.50
|   |   |   |   |   |   |   |   |   |--- workingday > -0.40
|   |   |   |   |   |   |   |   |   |   |--- value: 3115.00
|   |   |   |   |   |   |   |--- registered > -0.64
|   |   |   |   |   |   |   |   |--- temp <= -1.18
|   |   |   |   |   |   |   |   |   |--- value: 3190.00
|   |   |   |   |   |   |   |   |--- temp > -1.18
|   |   |   |   |   |   |   |   |   |--- value: 3243.00
|   |   |   |   |   |--- casual > -0.02
|   |   |   |   |   |   |--- registered <= -0.72
|   |   |   |   |   |   |   |--- hum <= -0.38
|   |   |   |   |   |   |   |   |--- season <= -0.45
|   |   |   |   |   |   |   |   |   |--- value: 3239.00
|   |   |   |   |   |   |   |   |--- season > -0.45
|   |   |   |   |   |   |   |   |   |--- value: 3285.00
|   |   |   |   |   |   |   |--- hum > -0.38
|   |   |   |   |   |   |   |   |--- registered <= -0.74
|   |   |   |   |   |   |   |   |   |--- hum <= 1.38
|   |   |   |   |   |   |   |   |   |   |--- hum <= 0.30
|   |   |   |   |   |   |   |   |   |   |   |--- value: 3331.00
|   |   |   |   |   |   |   |   |   |   |--- hum > 0.30
|   |   |   |   |   |   |   |   |   |   |   |--- value: 3349.50
|   |   |   |   |   |   |   |   |   |--- hum > 1.38
|   |   |   |   |   |   |   |   |   |   |--- value: 3372.00
|   |   |   |   |   |   |   |   |--- registered > -0.74
|   |   |   |   |   |   |   |   |   |--- value: 3409.00
|   |   |   |   |   |   |--- registered > -0.72
|   |   |   |   |   |   |   |--- value: 3606.00
|   |   |   |   |--- registered > -0.62
|   |   |   |   |   |--- mnth <= 0.72
|   |   |   |   |   |   |--- instant <= -1.23
|   |   |   |   |   |   |   |--- value: 3267.00
|   |   |   |   |   |   |--- instant > -1.23
|   |   |   |   |   |   |   |--- casual <= -0.39
|   |   |   |   |   |   |   |   |--- value: 3388.00
|   |   |   |   |   |   |   |--- casual > -0.39
|   |   |   |   |   |   |   |   |--- season <= -0.90
|   |   |   |   |   |   |   |   |   |--- value: 3424.00
|   |   |   |   |   |   |   |   |--- season > -0.90
|   |   |   |   |   |   |   |   |   |--- value: 3429.00
|   |   |   |   |   |--- mnth > 0.72
|   |   |   |   |   |   |--- casual <= 0.02
|   |   |   |   |   |   |   |--- atemp <= -0.89
|   |   |   |   |   |   |   |   |--- value: 3614.00
|   |   |   |   |   |   |   |--- atemp > -0.89
|   |   |   |   |   |   |   |   |--- hum <= 0.72
|   |   |   |   |   |   |   |   |   |--- value: 3520.00
|   |   |   |   |   |   |   |   |--- hum > 0.72
|   |   |   |   |   |   |   |   |   |--- value: 3485.00
|   |   |   |   |   |   |--- casual > 0.02
|   |   |   |   |   |   |   |--- casual <= 0.19
|   |   |   |   |   |   |   |   |--- casual <= 0.14
|   |   |   |   |   |   |   |   |   |--- value: 3663.00
|   |   |   |   |   |   |   |   |--- casual > 0.14
|   |   |   |   |   |   |   |   |   |--- value: 3649.00
|   |   |   |   |   |   |   |--- casual > 0.19
|   |   |   |   |   |   |   |   |--- value: 3717.00
|   |   |--- casual > 0.44
|   |   |   |--- casual <= 1.42
|   |   |   |   |--- registered <= -0.85
|   |   |   |   |   |--- atemp <= 0.38
|   |   |   |   |   |   |--- value: 3744.00
|   |   |   |   |   |--- atemp > 0.38
|   |   |   |   |   |   |--- value: 3351.00
|   |   |   |   |--- registered > -0.85
|   |   |   |   |   |--- casual <= 0.78
|   |   |   |   |   |   |--- instant <= -0.25
|   |   |   |   |   |   |   |--- instant <= -0.65
|   |   |   |   |   |   |   |   |--- instant <= -0.68
|   |   |   |   |   |   |   |   |   |--- value: 3785.00
|   |   |   |   |   |   |   |   |--- instant > -0.68
|   |   |   |   |   |   |   |   |   |--- value: 3820.00
|   |   |   |   |   |   |   |--- instant > -0.65
|   |   |   |   |   |   |   |   |--- windspeed <= 0.37
|   |   |   |   |   |   |   |   |   |--- value: 3926.00
|   |   |   |   |   |   |   |   |--- windspeed > 0.37
|   |   |   |   |   |   |   |   |   |--- value: 3873.00
|   |   |   |   |   |   |--- instant > -0.25
|   |   |   |   |   |   |   |--- value: 4067.00
|   |   |   |   |   |--- casual > 0.78
|   |   |   |   |   |   |--- registered <= -0.61
|   |   |   |   |   |   |   |--- atemp <= 0.16
|   |   |   |   |   |   |   |   |--- value: 4036.00
|   |   |   |   |   |   |   |--- atemp > 0.16
|   |   |   |   |   |   |   |   |--- temp <= 1.17
|   |   |   |   |   |   |   |   |   |--- weekday <= 0.00
|   |   |   |   |   |   |   |   |   |   |--- value: 4191.00
|   |   |   |   |   |   |   |   |   |--- weekday > 0.00
|   |   |   |   |   |   |   |   |   |   |--- value: 4150.00
|   |   |   |   |   |   |   |   |--- temp > 1.17
|   |   |   |   |   |   |   |   |   |--- value: 4098.00
|   |   |   |   |   |   |--- registered > -0.61
|   |   |   |   |   |   |   |--- casual <= 1.05
|   |   |   |   |   |   |   |   |--- atemp <= 0.47
|   |   |   |   |   |   |   |   |   |--- mnth <= -0.15
|   |   |   |   |   |   |   |   |   |   |--- value: 4318.00
|   |   |   |   |   |   |   |   |   |--- mnth > -0.15
|   |   |   |   |   |   |   |   |   |   |--- value: 4308.00
|   |   |   |   |   |   |   |   |--- atemp > 0.47
|   |   |   |   |   |   |   |   |   |--- casual <= 0.98
|   |   |   |   |   |   |   |   |   |   |--- value: 4294.00
|   |   |   |   |   |   |   |   |   |--- casual > 0.98
|   |   |   |   |   |   |   |   |   |   |--- value: 4302.00
|   |   |   |   |   |   |   |--- casual > 1.05
|   |   |   |   |   |   |   |   |--- value: 4381.00
|   |   |   |--- casual > 1.42
|   |   |   |   |--- hum <= 0.67
|   |   |   |   |   |--- weekday <= 0.00
|   |   |   |   |   |   |--- value: 4649.00
|   |   |   |   |   |--- weekday > 0.00
|   |   |   |   |   |   |--- value: 4484.00
|   |   |   |   |--- hum > 0.67
|   |   |   |   |   |--- mnth <= 0.14
|   |   |   |   |   |   |--- hum <= 1.03
|   |   |   |   |   |   |   |--- value: 4758.00
|   |   |   |   |   |   |--- hum > 1.03
|   |   |   |   |   |   |   |--- value: 4788.00
|   |   |   |   |   |--- mnth > 0.14
|   |   |   |   |   |   |--- value: 4940.00
|--- registered > -0.48
|   |--- instant <= 0.34
|   |   |--- casual <= -0.31
|   |   |   |--- registered <= -0.02
|   |   |   |   |--- registered <= -0.30
|   |   |   |   |   |--- atemp <= -0.53
|   |   |   |   |   |   |--- weathersit <= 0.19
|   |   |   |   |   |   |   |--- casual <= -0.91
|   |   |   |   |   |   |   |   |--- weekday <= 0.75
|   |   |   |   |   |   |   |   |   |--- casual <= -1.03
|   |   |   |   |   |   |   |   |   |   |--- casual <= -1.04
|   |   |   |   |   |   |   |   |   |   |   |--- value: 3292.00
|   |   |   |   |   |   |   |   |   |   |--- casual > -1.04
|   |   |   |   |   |   |   |   |   |   |   |--- value: 3272.00
|   |   |   |   |   |   |   |   |   |--- casual > -1.03
|   |   |   |   |   |   |   |   |   |   |--- casual <= -1.02
|   |   |   |   |   |   |   |   |   |   |   |--- value: 3310.00
|   |   |   |   |   |   |   |   |   |   |--- casual > -1.02
|   |   |   |   |   |   |   |   |   |   |   |--- registered <= -0.32
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3333.00
|   |   |   |   |   |   |   |   |   |   |   |--- registered > -0.32
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3322.00
|   |   |   |   |   |   |   |   |--- weekday > 0.75
|   |   |   |   |   |   |   |   |   |--- value: 3214.00
|   |   |   |   |   |   |   |--- casual > -0.91
|   |   |   |   |   |   |   |   |--- casual <= -0.73
|   |   |   |   |   |   |   |   |   |--- temp <= -1.20
|   |   |   |   |   |   |   |   |   |   |--- value: 3392.00
|   |   |   |   |   |   |   |   |   |--- temp > -1.20
|   |   |   |   |   |   |   |   |   |   |--- value: 3403.00
|   |   |   |   |   |   |   |   |--- casual > -0.73
|   |   |   |   |   |   |   |   |   |--- value: 3368.00
|   |   |   |   |   |   |--- weathersit > 0.19
|   |   |   |   |   |   |   |--- weekday <= 0.75
|   |   |   |   |   |   |   |   |--- value: 3005.00
|   |   |   |   |   |   |   |--- weekday > 0.75
|   |   |   |   |   |   |   |   |--- windspeed <= -0.22
|   |   |   |   |   |   |   |   |   |--- value: 3194.00
|   |   |   |   |   |   |   |   |--- windspeed > -0.22
|   |   |   |   |   |   |   |   |   |--- value: 3163.00
|   |   |   |   |   |--- atemp > -0.53
|   |   |   |   |   |   |--- casual <= -0.51
|   |   |   |   |   |   |   |--- mnth <= -0.59
|   |   |   |   |   |   |   |   |--- value: 3456.00
|   |   |   |   |   |   |   |--- mnth > -0.59
|   |   |   |   |   |   |   |   |--- atemp <= 1.16
|   |   |   |   |   |   |   |   |   |--- value: 3543.00
|   |   |   |   |   |   |   |   |--- atemp > 1.16
|   |   |   |   |   |   |   |   |   |--- value: 3574.00
|   |   |   |   |   |   |--- casual > -0.51
|   |   |   |   |   |   |   |--- season <= 0.90
|   |   |   |   |   |   |   |   |--- value: 3784.00
|   |   |   |   |   |   |   |--- season > 0.90
|   |   |   |   |   |   |   |   |--- value: 3644.00
|   |   |   |   |--- registered > -0.30
|   |   |   |   |   |--- casual <= -0.56
|   |   |   |   |   |   |--- registered <= -0.13
|   |   |   |   |   |   |   |--- instant <= 0.06
|   |   |   |   |   |   |   |   |--- casual <= -0.73
|   |   |   |   |   |   |   |   |   |--- temp <= -1.14
|   |   |   |   |   |   |   |   |   |   |--- value: 3523.00
|   |   |   |   |   |   |   |   |   |--- temp > -1.14
|   |   |   |   |   |   |   |   |   |   |--- atemp <= -0.83
|   |   |   |   |   |   |   |   |   |   |   |--- instant <= -0.03
|   |   |   |   |   |   |   |   |   |   |   |   |--- mnth <= 1.44
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3613.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- mnth > 1.44
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3620.00
|   |   |   |   |   |   |   |   |   |   |   |--- instant > -0.03
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3598.00
|   |   |   |   |   |   |   |   |   |   |--- atemp > -0.83
|   |   |   |   |   |   |   |   |   |   |   |--- registered <= -0.22
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3570.00
|   |   |   |   |   |   |   |   |   |   |   |--- registered > -0.22
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3577.00
|   |   |   |   |   |   |   |   |--- casual > -0.73
|   |   |   |   |   |   |   |   |   |--- weekday <= 0.75
|   |   |   |   |   |   |   |   |   |   |--- casual <= -0.61
|   |   |   |   |   |   |   |   |   |   |   |--- temp <= -0.20
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3669.00
|   |   |   |   |   |   |   |   |   |   |   |--- temp > -0.20
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3659.00
|   |   |   |   |   |   |   |   |   |   |--- casual > -0.61
|   |   |   |   |   |   |   |   |   |   |   |--- value: 3641.00
|   |   |   |   |   |   |   |   |   |--- weekday > 0.75
|   |   |   |   |   |   |   |   |   |   |--- value: 3747.00
|   |   |   |   |   |   |   |--- instant > 0.06
|   |   |   |   |   |   |   |   |--- hum <= -0.26
|   |   |   |   |   |   |   |   |   |--- temp <= -1.27
|   |   |   |   |   |   |   |   |   |   |--- value: 3422.00
|   |   |   |   |   |   |   |   |   |--- temp > -1.27
|   |   |   |   |   |   |   |   |   |   |--- value: 3376.00
|   |   |   |   |   |   |   |   |--- hum > -0.26
|   |   |   |   |   |   |   |   |   |--- value: 3487.00
|   |   |   |   |   |   |--- registered > -0.13
|   |   |   |   |   |   |   |--- casual <= -0.91
|   |   |   |   |   |   |   |   |--- temp <= -1.20
|   |   |   |   |   |   |   |   |   |--- value: 3624.00
|   |   |   |   |   |   |   |   |--- temp > -1.20
|   |   |   |   |   |   |   |   |   |--- instant <= -0.07
|   |   |   |   |   |   |   |   |   |   |--- temp <= -0.69
|   |   |   |   |   |   |   |   |   |   |   |--- casual <= -0.97
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3740.00
|   |   |   |   |   |   |   |   |   |   |   |--- casual > -0.97
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3727.00
|   |   |   |   |   |   |   |   |   |   |--- temp > -0.69
|   |   |   |   |   |   |   |   |   |   |   |--- value: 3709.00
|   |   |   |   |   |   |   |   |   |--- instant > -0.07
|   |   |   |   |   |   |   |   |   |   |--- registered <= -0.05
|   |   |   |   |   |   |   |   |   |   |   |--- registered <= -0.07
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3750.00
|   |   |   |   |   |   |   |   |   |   |   |--- registered > -0.07
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3761.00
|   |   |   |   |   |   |   |   |   |   |--- registered > -0.05
|   |   |   |   |   |   |   |   |   |   |   |--- atemp <= -1.10
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3777.00
|   |   |   |   |   |   |   |   |   |   |   |--- atemp > -1.10
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3784.00
|   |   |   |   |   |   |   |--- casual > -0.91
|   |   |   |   |   |   |   |   |--- casual <= -0.88
|   |   |   |   |   |   |   |   |   |--- weekday <= 0.00
|   |   |   |   |   |   |   |   |   |   |--- value: 3811.00
|   |   |   |   |   |   |   |   |   |--- weekday > 0.00
|   |   |   |   |   |   |   |   |   |   |--- value: 3831.00
|   |   |   |   |   |   |   |   |--- casual > -0.88
|   |   |   |   |   |   |   |   |   |--- casual <= -0.76
|   |   |   |   |   |   |   |   |   |   |--- value: 3867.00
|   |   |   |   |   |   |   |   |   |--- casual > -0.76
|   |   |   |   |   |   |   |   |   |   |--- value: 3894.00
|   |   |   |   |   |--- casual > -0.56
|   |   |   |   |   |   |--- registered <= -0.14
|   |   |   |   |   |   |   |--- registered <= -0.21
|   |   |   |   |   |   |   |   |--- windspeed <= 0.17
|   |   |   |   |   |   |   |   |   |--- weathersit <= 0.19
|   |   |   |   |   |   |   |   |   |   |--- value: 3840.00
|   |   |   |   |   |   |   |   |   |--- weathersit > 0.19
|   |   |   |   |   |   |   |   |   |   |--- value: 3855.00
|   |   |   |   |   |   |   |   |--- windspeed > 0.17
|   |   |   |   |   |   |   |   |   |--- value: 3767.00
|   |   |   |   |   |   |   |--- registered > -0.21
|   |   |   |   |   |   |   |   |--- registered <= -0.21
|   |   |   |   |   |   |   |   |   |--- value: 3872.00
|   |   |   |   |   |   |   |   |--- registered > -0.21
|   |   |   |   |   |   |   |   |   |--- mnth <= -0.44
|   |   |   |   |   |   |   |   |   |   |--- value: 3944.00
|   |   |   |   |   |   |   |   |   |--- mnth > -0.44
|   |   |   |   |   |   |   |   |   |   |--- weekday <= 0.25
|   |   |   |   |   |   |   |   |   |   |   |--- value: 3907.00
|   |   |   |   |   |   |   |   |   |   |--- weekday > 0.25
|   |   |   |   |   |   |   |   |   |   |   |--- value: 3915.00
|   |   |   |   |   |   |--- registered > -0.14
|   |   |   |   |   |   |   |--- registered <= -0.12
|   |   |   |   |   |   |   |   |--- value: 3974.00
|   |   |   |   |   |   |   |--- registered > -0.12
|   |   |   |   |   |   |   |   |--- atemp <= 0.10
|   |   |   |   |   |   |   |   |   |--- value: 4046.00
|   |   |   |   |   |   |   |   |--- atemp > 0.10
|   |   |   |   |   |   |   |   |   |--- value: 4058.00
|   |   |   |--- registered > -0.02
|   |   |   |   |--- registered <= 0.36
|   |   |   |   |   |--- registered <= 0.12
|   |   |   |   |   |   |--- casual <= -0.61
|   |   |   |   |   |   |   |--- registered <= 0.09
|   |   |   |   |   |   |   |   |--- casual <= -0.73
|   |   |   |   |   |   |   |   |   |--- mnth <= -1.17
|   |   |   |   |   |   |   |   |   |   |--- atemp <= -1.08
|   |   |   |   |   |   |   |   |   |   |   |--- value: 3830.00
|   |   |   |   |   |   |   |   |   |   |--- atemp > -1.08
|   |   |   |   |   |   |   |   |   |   |   |--- value: 3922.00
|   |   |   |   |   |   |   |   |   |--- mnth > -1.17
|   |   |   |   |   |   |   |   |   |   |--- registered <= 0.01
|   |   |   |   |   |   |   |   |   |   |   |--- value: 3974.00
|   |   |   |   |   |   |   |   |   |   |--- registered > 0.01
|   |   |   |   |   |   |   |   |   |   |   |--- weekday <= 0.25
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3956.00
|   |   |   |   |   |   |   |   |   |   |   |--- weekday > 0.25
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3940.00
|   |   |   |   |   |   |   |   |--- casual > -0.73
|   |   |   |   |   |   |   |   |   |--- weekday <= -0.75
|   |   |   |   |   |   |   |   |   |   |--- value: 4035.00
|   |   |   |   |   |   |   |   |   |--- weekday > -0.75
|   |   |   |   |   |   |   |   |   |   |--- value: 4068.00
|   |   |   |   |   |   |   |--- registered > 0.09
|   |   |   |   |   |   |   |   |--- casual <= -0.79
|   |   |   |   |   |   |   |   |   |--- instant <= 0.09
|   |   |   |   |   |   |   |   |   |   |--- temp <= -0.57
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4097.50
|   |   |   |   |   |   |   |   |   |   |--- temp > -0.57
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4109.00
|   |   |   |   |   |   |   |   |   |--- instant > 0.09
|   |   |   |   |   |   |   |   |   |   |--- value: 4075.00
|   |   |   |   |   |   |   |   |--- casual > -0.79
|   |   |   |   |   |   |   |   |   |--- instant <= -0.05
|   |   |   |   |   |   |   |   |   |   |--- temp <= -0.56
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4186.00
|   |   |   |   |   |   |   |   |   |   |--- temp > -0.56
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4205.00
|   |   |   |   |   |   |   |   |   |--- instant > -0.05
|   |   |   |   |   |   |   |   |   |   |--- value: 4152.50
|   |   |   |   |   |   |--- casual > -0.61
|   |   |   |   |   |   |   |--- registered <= 0.07
|   |   |   |   |   |   |   |   |--- windspeed <= -0.92
|   |   |   |   |   |   |   |   |   |--- value: 4120.00
|   |   |   |   |   |   |   |   |--- windspeed > -0.92
|   |   |   |   |   |   |   |   |   |--- casual <= -0.49
|   |   |   |   |   |   |   |   |   |   |--- value: 4195.00
|   |   |   |   |   |   |   |   |   |--- casual > -0.49
|   |   |   |   |   |   |   |   |   |   |--- value: 4182.00
|   |   |   |   |   |   |   |--- registered > 0.07
|   |   |   |   |   |   |   |   |--- atemp <= -0.65
|   |   |   |   |   |   |   |   |   |--- value: 4270.00
|   |   |   |   |   |   |   |   |--- atemp > -0.65
|   |   |   |   |   |   |   |   |   |--- atemp <= 0.13
|   |   |   |   |   |   |   |   |   |   |--- value: 4433.00
|   |   |   |   |   |   |   |   |   |--- atemp > 0.13
|   |   |   |   |   |   |   |   |   |   |--- weekday <= 0.25
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4352.00
|   |   |   |   |   |   |   |   |   |   |--- weekday > 0.25
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4390.00
|   |   |   |   |   |--- registered > 0.12
|   |   |   |   |   |   |--- atemp <= -0.63
|   |   |   |   |   |   |   |--- weekday <= -0.25
|   |   |   |   |   |   |   |   |--- casual <= -0.88
|   |   |   |   |   |   |   |   |   |--- hum <= -1.28
|   |   |   |   |   |   |   |   |   |   |--- value: 4363.00
|   |   |   |   |   |   |   |   |   |--- hum > -1.28
|   |   |   |   |   |   |   |   |   |   |--- value: 4375.00
|   |   |   |   |   |   |   |   |--- casual > -0.88
|   |   |   |   |   |   |   |   |   |--- weekday <= -0.75
|   |   |   |   |   |   |   |   |   |   |--- value: 4322.00
|   |   |   |   |   |   |   |   |   |--- weekday > -0.75
|   |   |   |   |   |   |   |   |   |   |--- value: 4339.00
|   |   |   |   |   |   |   |--- weekday > -0.25
|   |   |   |   |   |   |   |   |--- value: 4169.00
|   |   |   |   |   |   |--- atemp > -0.63
|   |   |   |   |   |   |   |--- weekday <= 0.25
|   |   |   |   |   |   |   |   |--- instant <= -0.32
|   |   |   |   |   |   |   |   |   |--- season <= 0.45
|   |   |   |   |   |   |   |   |   |   |--- value: 4451.00
|   |   |   |   |   |   |   |   |   |--- season > 0.45
|   |   |   |   |   |   |   |   |   |   |--- value: 4456.00
|   |   |   |   |   |   |   |   |--- instant > -0.32
|   |   |   |   |   |   |   |   |   |--- registered <= 0.24
|   |   |   |   |   |   |   |   |   |   |--- value: 4486.00
|   |   |   |   |   |   |   |   |   |--- registered > 0.24
|   |   |   |   |   |   |   |   |   |   |--- value: 4509.00
|   |   |   |   |   |   |   |--- weekday > 0.25
|   |   |   |   |   |   |   |   |--- value: 4569.00
|   |   |   |   |--- registered > 0.36
|   |   |   |   |   |--- registered <= 0.55
|   |   |   |   |   |   |--- hum <= -0.82
|   |   |   |   |   |   |   |--- value: 4579.00
|   |   |   |   |   |   |--- hum > -0.82
|   |   |   |   |   |   |   |--- instant <= 0.28
|   |   |   |   |   |   |   |   |--- season <= 0.90
|   |   |   |   |   |   |   |   |   |--- season <= -0.45
|   |   |   |   |   |   |   |   |   |   |--- value: 4773.00
|   |   |   |   |   |   |   |   |   |--- season > -0.45
|   |   |   |   |   |   |   |   |   |   |--- value: 4795.00
|   |   |   |   |   |   |   |   |--- season > 0.90
|   |   |   |   |   |   |   |   |   |--- value: 4826.00
|   |   |   |   |   |   |   |--- instant > 0.28
|   |   |   |   |   |   |   |   |--- value: 4916.00
|   |   |   |   |   |--- registered > 0.55
|   |   |   |   |   |   |--- windspeed <= 1.86
|   |   |   |   |   |   |   |--- casual <= -0.62
|   |   |   |   |   |   |   |   |--- value: 4990.00
|   |   |   |   |   |   |   |--- casual > -0.62
|   |   |   |   |   |   |   |   |--- value: 5062.00
|   |   |   |   |   |   |--- windspeed > 1.86
|   |   |   |   |   |   |   |--- value: 5382.00
|   |   |--- casual > -0.31
|   |   |   |--- casual <= 1.31
|   |   |   |   |--- registered <= 0.20
|   |   |   |   |   |--- casual <= 0.94
|   |   |   |   |   |   |--- registered <= -0.02
|   |   |   |   |   |   |   |--- casual <= -0.05
|   |   |   |   |   |   |   |   |--- registered <= -0.20
|   |   |   |   |   |   |   |   |   |--- registered <= -0.31
|   |   |   |   |   |   |   |   |   |   |--- casual <= -0.28
|   |   |   |   |   |   |   |   |   |   |   |--- value: 3805.00
|   |   |   |   |   |   |   |   |   |   |--- casual > -0.28
|   |   |   |   |   |   |   |   |   |   |   |--- value: 3846.00
|   |   |   |   |   |   |   |   |   |--- registered > -0.31
|   |   |   |   |   |   |   |   |   |   |--- windspeed <= -0.64
|   |   |   |   |   |   |   |   |   |   |   |--- temp <= 0.99
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3958.00
|   |   |   |   |   |   |   |   |   |   |   |--- temp > 0.99
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 3982.00
|   |   |   |   |   |   |   |   |   |   |--- windspeed > -0.64
|   |   |   |   |   |   |   |   |   |   |   |--- instant <= -1.06
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4073.00
|   |   |   |   |   |   |   |   |   |   |   |--- instant > -1.06
|   |   |   |   |   |   |   |   |   |   |   |   |--- atemp <= 0.97
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- mnth <= -0.88
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4023.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- mnth > -0.88
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4010.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- atemp > 0.97
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4040.00
|   |   |   |   |   |   |   |   |--- registered > -0.20
|   |   |   |   |   |   |   |   |   |--- registered <= -0.09
|   |   |   |   |   |   |   |   |   |   |--- atemp <= 0.01
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4188.00
|   |   |   |   |   |   |   |   |   |   |--- atemp > 0.01
|   |   |   |   |   |   |   |   |   |   |   |--- mnth <= 0.28
|   |   |   |   |   |   |   |   |   |   |   |   |--- registered <= -0.17
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4086.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- registered > -0.17
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- windspeed <= 0.49
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4105.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- windspeed > 0.49
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4123.00
|   |   |   |   |   |   |   |   |   |   |   |--- mnth > 0.28
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4153.00
|   |   |   |   |   |   |   |   |   |--- registered > -0.09
|   |   |   |   |   |   |   |   |   |   |--- atemp <= 1.36
|   |   |   |   |   |   |   |   |   |   |   |--- mnth <= 0.72
|   |   |   |   |   |   |   |   |   |   |   |   |--- temp <= 1.15
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4338.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- temp > 1.15
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4342.00
|   |   |   |   |   |   |   |   |   |   |   |--- mnth > 0.72
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4304.00
|   |   |   |   |   |   |   |   |   |   |--- atemp > 1.36
|   |   |   |   |   |   |   |   |   |   |   |--- weekday <= -0.75
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4266.00
|   |   |   |   |   |   |   |   |   |   |   |--- weekday > -0.75
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4258.00
|   |   |   |   |   |   |   |--- casual > -0.05
|   |   |   |   |   |   |   |   |--- instant <= 0.16
|   |   |   |   |   |   |   |   |   |--- temp <= 0.02
|   |   |   |   |   |   |   |   |   |   |--- weathersit <= 0.19
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4521.00
|   |   |   |   |   |   |   |   |   |   |--- weathersit > 0.19
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4511.00
|   |   |   |   |   |   |   |   |   |--- temp > 0.02
|   |   |   |   |   |   |   |   |   |   |--- registered <= -0.09
|   |   |   |   |   |   |   |   |   |   |   |--- casual <= 0.86
|   |   |   |   |   |   |   |   |   |   |   |   |--- hum <= 0.25
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- weekday <= -1.25
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4333.50
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- weekday > -1.25
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4326.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- hum > 0.25
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4274.00
|   |   |   |   |   |   |   |   |   |   |   |--- casual > 0.86
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4460.00
|   |   |   |   |   |   |   |   |   |   |--- registered > -0.09
|   |   |   |   |   |   |   |   |   |   |   |--- atemp <= 0.88
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4401.00
|   |   |   |   |   |   |   |   |   |   |   |--- atemp > 0.88
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4458.00
|   |   |   |   |   |   |   |   |--- instant > 0.16
|   |   |   |   |   |   |   |   |   |--- hum <= -1.00
|   |   |   |   |   |   |   |   |   |   |--- value: 4118.00
|   |   |   |   |   |   |   |   |   |--- hum > -1.00
|   |   |   |   |   |   |   |   |   |   |--- value: 4066.00
|   |   |   |   |   |   |--- registered > -0.02
|   |   |   |   |   |   |   |--- casual <= -0.24
|   |   |   |   |   |   |   |   |--- registered <= 0.08
|   |   |   |   |   |   |   |   |   |--- registered <= 0.03
|   |   |   |   |   |   |   |   |   |   |--- mnth <= -0.15
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4362.00
|   |   |   |   |   |   |   |   |   |   |--- mnth > -0.15
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4332.00
|   |   |   |   |   |   |   |   |   |--- registered > 0.03
|   |   |   |   |   |   |   |   |   |   |--- value: 4400.50
|   |   |   |   |   |   |   |   |--- registered > 0.08
|   |   |   |   |   |   |   |   |   |--- casual <= -0.27
|   |   |   |   |   |   |   |   |   |   |--- casual <= -0.27
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4492.00
|   |   |   |   |   |   |   |   |   |   |--- casual > -0.27
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4507.00
|   |   |   |   |   |   |   |   |   |--- casual > -0.27
|   |   |   |   |   |   |   |   |   |   |--- windspeed <= -0.75
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4548.00
|   |   |   |   |   |   |   |   |   |   |--- windspeed > -0.75
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4563.00
|   |   |   |   |   |   |   |--- casual > -0.24
|   |   |   |   |   |   |   |   |--- casual <= 0.17
|   |   |   |   |   |   |   |   |   |--- registered <= 0.12
|   |   |   |   |   |   |   |   |   |   |--- windspeed <= 0.64
|   |   |   |   |   |   |   |   |   |   |   |--- casual <= -0.14
|   |   |   |   |   |   |   |   |   |   |   |   |--- windspeed <= -0.19
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- instant <= -0.93
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4575.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- instant > -0.93
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4540.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- windspeed > -0.19
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4590.00
|   |   |   |   |   |   |   |   |   |   |   |--- casual > -0.14
|   |   |   |   |   |   |   |   |   |   |   |   |--- registered <= 0.12
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- hum <= -0.21
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- mnth <= -0.59
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4595.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- mnth > -0.59
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- season <= 0.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4608.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- season > 0.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4602.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- hum > -0.21
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- hum <= 0.54
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- atemp <= 1.36
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4592.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- atemp > 1.36
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4586.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- hum > 0.54
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4576.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- registered > 0.12
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4629.00
|   |   |   |   |   |   |   |   |   |   |--- windspeed > 0.64
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4679.00
|   |   |   |   |   |   |   |   |   |--- registered > 0.12
|   |   |   |   |   |   |   |   |   |   |--- casual <= -0.07
|   |   |   |   |   |   |   |   |   |   |   |--- temp <= 0.49
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4570.00
|   |   |   |   |   |   |   |   |   |   |   |--- temp > 0.49
|   |   |   |   |   |   |   |   |   |   |   |   |--- weekday <= -0.25
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- instant <= -0.74
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4648.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- instant > -0.74
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- registered <= 0.17
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4634.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- registered > 0.17
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4630.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- weekday > -0.25
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- season <= 0.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4677.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- season > 0.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- atemp <= 1.23
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4661.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- atemp > 1.23
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4656.00
|   |   |   |   |   |   |   |   |   |   |--- casual > -0.07
|   |   |   |   |   |   |   |   |   |   |   |--- weathersit <= 0.19
|   |   |   |   |   |   |   |   |   |   |   |   |--- windspeed <= 0.62
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4780.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- windspeed > 0.62
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4758.00
|   |   |   |   |   |   |   |   |   |   |   |--- weathersit > 0.19
|   |   |   |   |   |   |   |   |   |   |   |   |--- instant <= -0.73
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4708.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- instant > -0.73
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4727.00
|   |   |   |   |   |   |   |   |--- casual > 0.17
|   |   |   |   |   |   |   |   |   |--- weekday <= 0.25
|   |   |   |   |   |   |   |   |   |   |--- value: 4665.00
|   |   |   |   |   |   |   |   |   |--- weekday > 0.25
|   |   |   |   |   |   |   |   |   |   |--- atemp <= 1.11
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4905.00
|   |   |   |   |   |   |   |   |   |   |--- atemp > 1.11
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4866.00
|   |   |   |   |   |--- casual > 0.94
|   |   |   |   |   |   |--- registered <= -0.34
|   |   |   |   |   |   |   |--- registered <= -0.40
|   |   |   |   |   |   |   |   |--- season <= 0.00
|   |   |   |   |   |   |   |   |   |--- value: 4553.00
|   |   |   |   |   |   |   |   |--- season > 0.00
|   |   |   |   |   |   |   |   |   |--- value: 4475.00
|   |   |   |   |   |   |   |--- registered > -0.40
|   |   |   |   |   |   |   |   |--- hum <= 0.56
|   |   |   |   |   |   |   |   |   |--- temp <= 0.62
|   |   |   |   |   |   |   |   |   |   |--- value: 4714.00
|   |   |   |   |   |   |   |   |   |--- temp > 0.62
|   |   |   |   |   |   |   |   |   |   |--- value: 4744.00
|   |   |   |   |   |   |   |   |--- hum > 0.56
|   |   |   |   |   |   |   |   |   |--- value: 4660.00
|   |   |   |   |   |   |--- registered > -0.34
|   |   |   |   |   |   |   |--- casual <= 1.16
|   |   |   |   |   |   |   |   |--- mnth <= 0.86
|   |   |   |   |   |   |   |   |   |--- hum <= 1.06
|   |   |   |   |   |   |   |   |   |   |--- value: 5046.00
|   |   |   |   |   |   |   |   |   |--- hum > 1.06
|   |   |   |   |   |   |   |   |   |   |--- value: 5010.00
|   |   |   |   |   |   |   |   |--- mnth > 0.86
|   |   |   |   |   |   |   |   |   |--- value: 5117.00
|   |   |   |   |   |   |   |--- casual > 1.16
|   |   |   |   |   |   |   |   |--- weekday <= 0.00
|   |   |   |   |   |   |   |   |   |--- season <= 0.00
|   |   |   |   |   |   |   |   |   |   |--- hum <= -0.44
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4911.00
|   |   |   |   |   |   |   |   |   |   |--- hum > -0.44
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4906.00
|   |   |   |   |   |   |   |   |   |--- season > 0.00
|   |   |   |   |   |   |   |   |   |   |--- value: 4881.00
|   |   |   |   |   |   |   |   |--- weekday > 0.00
|   |   |   |   |   |   |   |   |   |--- value: 4966.00
|   |   |   |   |--- registered > 0.20
|   |   |   |   |   |--- casual <= 0.22
|   |   |   |   |   |   |--- registered <= 0.33
|   |   |   |   |   |   |   |--- casual <= -0.02
|   |   |   |   |   |   |   |   |--- instant <= -0.67
|   |   |   |   |   |   |   |   |   |--- registered <= 0.31
|   |   |   |   |   |   |   |   |   |   |--- weekday <= 0.00
|   |   |   |   |   |   |   |   |   |   |   |--- atemp <= 0.65
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4803.00
|   |   |   |   |   |   |   |   |   |   |   |--- atemp > 0.65
|   |   |   |   |   |   |   |   |   |   |   |   |--- windspeed <= 0.08
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4834.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- windspeed > 0.08
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4845.00
|   |   |   |   |   |   |   |   |   |   |--- weekday > 0.00
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4791.00
|   |   |   |   |   |   |   |   |   |--- registered > 0.31
|   |   |   |   |   |   |   |   |   |   |--- registered <= 0.33
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4891.00
|   |   |   |   |   |   |   |   |   |   |--- registered > 0.33
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4864.00
|   |   |   |   |   |   |   |   |--- instant > -0.67
|   |   |   |   |   |   |   |   |   |--- registered <= 0.25
|   |   |   |   |   |   |   |   |   |   |--- weathersit <= 0.19
|   |   |   |   |   |   |   |   |   |   |   |--- casual <= -0.20
|   |   |   |   |   |   |   |   |   |   |   |   |--- hum <= 0.21
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- mnth <= 0.72
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4694.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- mnth > 0.72
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4687.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- hum > 0.21
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4713.00
|   |   |   |   |   |   |   |   |   |   |   |--- casual > -0.20
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4725.00
|   |   |   |   |   |   |   |   |   |   |--- weathersit > 0.19
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4760.00
|   |   |   |   |   |   |   |   |   |--- registered > 0.25
|   |   |   |   |   |   |   |   |   |   |--- windspeed <= -0.46
|   |   |   |   |   |   |   |   |   |   |   |--- windspeed <= -0.88
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4748.00
|   |   |   |   |   |   |   |   |   |   |   |--- windspeed > -0.88
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 4764.00
|   |   |   |   |   |   |   |   |   |   |--- windspeed > -0.46
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4785.00
|   |   |   |   |   |   |   |--- casual > -0.02
|   |   |   |   |   |   |   |   |--- hum <= 0.52
|   |   |   |   |   |   |   |   |   |--- weekday <= 0.00
|   |   |   |   |   |   |   |   |   |   |--- value: 5020.00
|   |   |   |   |   |   |   |   |   |--- weekday > 0.00
|   |   |   |   |   |   |   |   |   |   |--- season <= 0.90
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4991.00
|   |   |   |   |   |   |   |   |   |   |--- season > 0.90
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4985.00
|   |   |   |   |   |   |   |   |--- hum > 0.52
|   |   |   |   |   |   |   |   |   |--- instant <= -1.00
|   |   |   |   |   |   |   |   |   |   |--- value: 4917.00
|   |   |   |   |   |   |   |   |   |--- instant > -1.00
|   |   |   |   |   |   |   |   |   |   |--- value: 4844.00
|   |   |   |   |   |   |--- registered > 0.33
|   |   |   |   |   |   |   |--- casual <= -0.14
|   |   |   |   |   |   |   |   |--- season <= 0.90
|   |   |   |   |   |   |   |   |   |--- windspeed <= -0.93
|   |   |   |   |   |   |   |   |   |   |--- value: 5058.00
|   |   |   |   |   |   |   |   |   |--- windspeed > -0.93
|   |   |   |   |   |   |   |   |   |   |--- temp <= 1.05
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4978.00
|   |   |   |   |   |   |   |   |   |   |--- temp > 1.05
|   |   |   |   |   |   |   |   |   |   |   |--- value: 4968.00
|   |   |   |   |   |   |   |   |--- season > 0.90
|   |   |   |   |   |   |   |   |   |--- value: 4839.00
|   |   |   |   |   |   |   |--- casual > -0.14
|   |   |   |   |   |   |   |   |--- registered <= 0.45
|   |   |   |   |   |   |   |   |   |--- atemp <= 0.97
|   |   |   |   |   |   |   |   |   |   |--- atemp <= 0.91
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5115.00
|   |   |   |   |   |   |   |   |   |   |--- atemp > 0.91
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5130.00
|   |   |   |   |   |   |   |   |   |--- atemp > 0.97
|   |   |   |   |   |   |   |   |   |   |--- value: 5084.00
|   |   |   |   |   |   |   |   |--- registered > 0.45
|   |   |   |   |   |   |   |   |   |--- windspeed <= 0.21
|   |   |   |   |   |   |   |   |   |   |--- hum <= -0.83
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5180.00
|   |   |   |   |   |   |   |   |   |   |--- hum > -0.83
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5203.00
|   |   |   |   |   |   |   |   |   |--- windspeed > 0.21
|   |   |   |   |   |   |   |   |   |   |--- windspeed <= 0.86
|   |   |   |   |   |   |   |   |   |   |   |--- registered <= 0.50
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 5312.00
|   |   |   |   |   |   |   |   |   |   |   |--- registered > 0.50
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 5298.00
|   |   |   |   |   |   |   |   |   |   |--- windspeed > 0.86
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5225.00
|   |   |   |   |   |--- casual > 0.22
|   |   |   |   |   |   |--- registered <= 0.57
|   |   |   |   |   |   |   |--- registered <= 0.33
|   |   |   |   |   |   |   |   |--- value: 5362.00
|   |   |   |   |   |   |   |--- registered > 0.33
|   |   |   |   |   |   |   |   |--- temp <= 1.01
|   |   |   |   |   |   |   |   |   |--- value: 5538.00
|   |   |   |   |   |   |   |   |--- temp > 1.01
|   |   |   |   |   |   |   |   |   |--- value: 5515.00
|   |   |   |   |   |   |--- registered > 0.57
|   |   |   |   |   |   |   |--- value: 5895.00
|   |   |   |--- casual > 1.31
|   |   |   |   |--- casual <= 2.04
|   |   |   |   |   |--- hum <= 0.42
|   |   |   |   |   |   |--- registered <= -0.21
|   |   |   |   |   |   |   |--- atemp <= 1.19
|   |   |   |   |   |   |   |   |--- weekday <= 0.00
|   |   |   |   |   |   |   |   |   |--- value: 5041.00
|   |   |   |   |   |   |   |   |--- weekday > 0.00
|   |   |   |   |   |   |   |   |   |--- instant <= -0.75
|   |   |   |   |   |   |   |   |   |   |--- value: 5119.00
|   |   |   |   |   |   |   |   |   |--- instant > -0.75
|   |   |   |   |   |   |   |   |   |   |--- mnth <= 0.72
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5191.00
|   |   |   |   |   |   |   |   |   |   |--- mnth > 0.72
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5217.00
|   |   |   |   |   |   |   |--- atemp > 1.19
|   |   |   |   |   |   |   |   |--- value: 5302.00
|   |   |   |   |   |   |--- registered > -0.21
|   |   |   |   |   |   |   |--- casual <= 1.42
|   |   |   |   |   |   |   |   |--- value: 5202.00
|   |   |   |   |   |   |   |--- casual > 1.42
|   |   |   |   |   |   |   |   |--- windspeed <= -1.05
|   |   |   |   |   |   |   |   |   |--- value: 5305.00
|   |   |   |   |   |   |   |   |--- windspeed > -1.05
|   |   |   |   |   |   |   |   |   |--- instant <= -1.08
|   |   |   |   |   |   |   |   |   |   |--- value: 5312.00
|   |   |   |   |   |   |   |   |   |--- instant > -1.08
|   |   |   |   |   |   |   |   |   |   |--- windspeed <= -0.58
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5342.00
|   |   |   |   |   |   |   |   |   |   |--- windspeed > -0.58
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5336.00
|   |   |   |   |   |--- hum > 0.42
|   |   |   |   |   |   |--- temp <= 0.75
|   |   |   |   |   |   |   |--- instant <= -0.44
|   |   |   |   |   |   |   |   |--- value: 5423.00
|   |   |   |   |   |   |   |--- instant > -0.44
|   |   |   |   |   |   |   |   |--- value: 5409.00
|   |   |   |   |   |   |--- temp > 0.75
|   |   |   |   |   |   |   |--- value: 5345.00
|   |   |   |   |--- casual > 2.04
|   |   |   |   |   |--- season <= 0.90
|   |   |   |   |   |   |--- temp <= 1.16
|   |   |   |   |   |   |   |--- mnth <= -0.15
|   |   |   |   |   |   |   |   |--- value: 5805.00
|   |   |   |   |   |   |   |--- mnth > -0.15
|   |   |   |   |   |   |   |   |--- value: 5923.00
|   |   |   |   |   |   |--- temp > 1.16
|   |   |   |   |   |   |   |--- value: 6043.00
|   |   |   |   |   |--- season > 0.90
|   |   |   |   |   |   |--- value: 5511.00
|   |--- instant > 0.34
|   |   |--- registered <= 1.07
|   |   |   |--- casual <= 2.19
|   |   |   |   |--- casual <= -0.30
|   |   |   |   |   |--- registered <= 0.26
|   |   |   |   |   |   |--- casual <= -0.84
|   |   |   |   |   |   |   |--- value: 3214.00
|   |   |   |   |   |   |--- casual > -0.84
|   |   |   |   |   |   |   |--- instant <= 0.69
|   |   |   |   |   |   |   |   |--- atemp <= -0.17
|   |   |   |   |   |   |   |   |   |--- value: 4378.00
|   |   |   |   |   |   |   |   |--- atemp > -0.17
|   |   |   |   |   |   |   |   |   |--- instant <= 0.59
|   |   |   |   |   |   |   |   |   |   |--- value: 4367.00
|   |   |   |   |   |   |   |   |   |--- instant > 0.59
|   |   |   |   |   |   |   |   |   |   |--- value: 4359.00
|   |   |   |   |   |   |   |--- instant > 0.69
|   |   |   |   |   |   |   |   |--- value: 4127.00
|   |   |   |   |   |--- registered > 0.26
|   |   |   |   |   |   |--- registered <= 0.76
|   |   |   |   |   |   |   |--- windspeed <= 0.32
|   |   |   |   |   |   |   |   |--- casual <= -0.50
|   |   |   |   |   |   |   |   |   |--- instant <= 0.66
|   |   |   |   |   |   |   |   |   |   |--- value: 5026.00
|   |   |   |   |   |   |   |   |   |--- instant > 0.66
|   |   |   |   |   |   |   |   |   |   |--- value: 4972.00
|   |   |   |   |   |   |   |   |--- casual > -0.50
|   |   |   |   |   |   |   |   |   |--- mnth <= -0.73
|   |   |   |   |   |   |   |   |   |   |--- value: 5102.00
|   |   |   |   |   |   |   |   |   |--- mnth > -0.73
|   |   |   |   |   |   |   |   |   |   |--- value: 5115.00
|   |   |   |   |   |   |   |--- windspeed > 0.32
|   |   |   |   |   |   |   |   |--- atemp <= -0.18
|   |   |   |   |   |   |   |   |   |--- value: 4862.00
|   |   |   |   |   |   |   |   |--- atemp > -0.18
|   |   |   |   |   |   |   |   |   |--- value: 4717.00
|   |   |   |   |   |   |--- registered > 0.76
|   |   |   |   |   |   |   |--- value: 5633.00
|   |   |   |   |--- casual > -0.30
|   |   |   |   |   |--- registered <= -0.05
|   |   |   |   |   |   |--- casual <= 0.74
|   |   |   |   |   |   |   |--- atemp <= -0.07
|   |   |   |   |   |   |   |   |--- value: 4220.00
|   |   |   |   |   |   |   |--- atemp > -0.07
|   |   |   |   |   |   |   |   |--- hum <= 0.10
|   |   |   |   |   |   |   |   |   |--- value: 4672.00
|   |   |   |   |   |   |   |   |--- hum > 0.10
|   |   |   |   |   |   |   |   |   |--- mnth <= 0.28
|   |   |   |   |   |   |   |   |   |   |--- value: 4459.00
|   |   |   |   |   |   |   |   |   |--- mnth > 0.28
|   |   |   |   |   |   |   |   |   |   |--- value: 4549.00
|   |   |   |   |   |   |--- casual > 0.74
|   |   |   |   |   |   |   |--- registered <= -0.31
|   |   |   |   |   |   |   |   |--- value: 5169.00
|   |   |   |   |   |   |   |--- registered > -0.31
|   |   |   |   |   |   |   |   |--- weathersit <= 0.19
|   |   |   |   |   |   |   |   |   |--- value: 4840.00
|   |   |   |   |   |   |   |   |--- weathersit > 0.19
|   |   |   |   |   |   |   |   |   |--- value: 4996.00
|   |   |   |   |   |--- registered > -0.05
|   |   |   |   |   |   |--- casual <= 0.18
|   |   |   |   |   |   |   |--- registered <= 0.74
|   |   |   |   |   |   |   |   |--- registered <= 0.58
|   |   |   |   |   |   |   |   |   |--- instant <= 0.74
|   |   |   |   |   |   |   |   |   |   |--- value: 5260.00
|   |   |   |   |   |   |   |   |   |--- instant > 0.74
|   |   |   |   |   |   |   |   |   |   |--- value: 5099.00
|   |   |   |   |   |   |   |   |--- registered > 0.58
|   |   |   |   |   |   |   |   |   |--- windspeed <= 1.73
|   |   |   |   |   |   |   |   |   |   |--- weekday <= 0.75
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5409.00
|   |   |   |   |   |   |   |   |   |   |--- weekday > 0.75
|   |   |   |   |   |   |   |   |   |   |   |--- hum <= -0.65
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 5463.00
|   |   |   |   |   |   |   |   |   |   |   |--- hum > -0.65
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 5459.00
|   |   |   |   |   |   |   |   |   |--- windspeed > 1.73
|   |   |   |   |   |   |   |   |   |   |--- temp <= -0.15
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5558.00
|   |   |   |   |   |   |   |   |   |   |--- temp > -0.15
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5585.00
|   |   |   |   |   |   |   |--- registered >  0.74
|   |   |   |   |   |   |   |   |--- registered <= 0.98
|   |   |   |   |   |   |   |   |   |--- registered <= 0.92
|   |   |   |   |   |   |   |   |   |   |--- weekday <= -0.75
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5572.00
|   |   |   |   |   |   |   |   |   |   |--- weekday >  -0.75
|   |   |   |   |   |   |   |   |   |   |   |--- season <= -0.90
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 5847.00
|   |   |   |   |   |   |   |   |   |   |   |--- season >  -0.90
|   |   |   |   |   |   |   |   |   |   |   |   |--- weekday <= 0.50
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- hum <= -0.07
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- atemp <= 0.82
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 5698.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- atemp >  0.82
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 5713.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- hum >  -0.07
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- temp <= 0.56
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 5728.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- temp >  0.56
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 5741.50
|   |   |   |   |   |   |   |   |   |   |   |   |--- weekday >  0.50
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 5823.00
|   |   |   |   |   |   |   |   |   |--- registered >  0.92
|   |   |   |   |   |   |   |   |   |   |--- weathersit <= 0.19
|   |   |   |   |   |   |   |   |   |   |   |--- temp <= 0.72
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 5918.00
|   |   |   |   |   |   |   |   |   |   |   |--- temp >  0.72
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 5905.00
|   |   |   |   |   |   |   |   |   |   |--- weathersit >  0.19
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5870.00
|   |   |   |   |   |   |   |   |--- registered >  0.98
|   |   |   |   |   |   |   |   |   |--- season <= 0.00
|   |   |   |   |   |   |   |   |   |   |--- instant <= 0.54
|   |   |   |   |   |   |   |   |   |   |   |--- value: 6133.00
|   |   |   |   |   |   |   |   |   |   |--- instant >  0.54
|   |   |   |   |   |   |   |   |   |   |   |--- value: 6073.00
|   |   |   |   |   |   |   |   |   |--- season >  0.00
|   |   |   |   |   |   |   |   |   |   |--- value: 6227.00
|   |   |   |   |   |   |--- casual >  0.18
|   |   |   |   |   |   |   |--- registered <= 0.41
|   |   |   |   |   |   |   |   |--- casual <= 1.34
|   |   |   |   |   |   |   |   |   |--- atemp <= 1.03
|   |   |   |   |   |   |   |   |   |   |--- value: 5255.00
|   |   |   |   |   |   |   |   |   |--- atemp >  1.03
|   |   |   |   |   |   |   |   |   |   |--- windspeed <= -0.33
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5687.00
|   |   |   |   |   |   |   |   |   |   |--- windspeed >  -0.33
|   |   |   |   |   |   |   |   |   |   |   |--- hum <= -0.30
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 5531.00
|   |   |   |   |   |   |   |   |   |   |   |--- hum >  -0.30
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 5464.00
|   |   |   |   |   |   |   |   |--- casual >  1.34
|   |   |   |   |   |   |   |   |   |--- registered <= 0.05
|   |   |   |   |   |   |   |   |   |   |--- registered <= 0.02
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5892.00
|   |   |   |   |   |   |   |   |   |   |--- registered >  0.02
|   |   |   |   |   |   |   |   |   |   |   |--- value: 6041.00
|   |   |   |   |   |   |   |   |   |--- registered >  0.05
|   |   |   |   |   |   |   |   |   |   |--- casual <= 1.72
|   |   |   |   |   |   |   |   |   |   |   |--- atemp <= 1.15
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6053.00
|   |   |   |   |   |   |   |   |   |   |   |--- atemp >  1.15
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6031.00
|   |   |   |   |   |   |   |   |   |   |--- casual > 1.72
|   |   |   |   |   |   |   |   |   |   |   |--- registered <= 0.22
|   |   |   |   |   |   |   |   |   |   |   |   |--- atemp <= 0.18
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6235.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- atemp > 0.18
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- weekday <= 0.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6118.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- weekday > 0.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6140.00
|   |   |   |   |   |   |   |   |   |   |   |--- registered > 0.22
|   |   |   |   |   |   |   |   |   |   |   |   |--- hum <= 0.76
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- hum <= 0.23
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6304.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- hum > 0.23
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6299.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- hum > 0.76
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6359.00
|   |   |   |   |   |   |   |--- registered > 0.41
|   |   |   |   |   |   |   |   |--- casual <= 0.82
|   |   |   |   |   |   |   |   |   |--- registered <= 0.72
|   |   |   |   |   |   |   |   |   |   |--- season <= 0.00
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5936.00
|   |   |   |   |   |   |   |   |   |   |--- season > 0.00
|   |   |   |   |   |   |   |   |   |   |   |--- value: 5786.00
|   |   |   |   |   |   |   |   |   |--- registered > 0.72
|   |   |   |   |   |   |   |   |   |   |--- atemp <= -0.20
|   |   |   |   |   |   |   |   |   |   |   |--- windspeed <= -0.04
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6398.00
|   |   |   |   |   |   |   |   |   |   |   |--- windspeed > -0.04
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6457.00
|   |   |   |   |   |   |   |   |   |   |--- atemp > -0.20
|   |   |   |   |   |   |   |   |   |   |   |--- registered <= 0.97
|   |   |   |   |   |   |   |   |   |   |   |   |--- instant <= 0.38
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- temp <= 0.31
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6153.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- temp > 0.31
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6093.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- instant > 0.38
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- hum <= -1.22
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6207.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- hum > -1.22
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- instant <= 0.63
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6230.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- instant > 0.63
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6241.00
|   |   |   |   |   |   |   |   |   |   |   |--- registered > 0.97
|   |   |   |   |   |   |   |   |   |   |   |   |--- temp <= 0.38
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- temp <= 0.28
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- windspeed <= 1.27
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6273.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- windspeed > 1.27
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6233.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- temp > 0.28
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6192.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- temp > 0.38
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- workingday <= -0.40
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6370.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- workingday > -0.40
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- atemp <= 0.59
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6312.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- atemp > 0.59
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6296.00
|   |   |   |   |   |   |   |   |--- casual > 0.82
|   |   |   |   |   |   |   |   |   |--- hum <= -0.37
|   |   |   |   |   |   |   |   |   |   |--- hum <= -1.22
|   |   |   |   |   |   |   |   |   |   |   |--- value: 6460.00
|   |   |   |   |   |   |   |   |   |   |--- hum > -1.22
|   |   |   |   |   |   |   |   |   |   |   |--- casual <= 1.97
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6544.00
|   |   |   |   |   |   |   |   |   |   |   |--- casual > 1.97
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6598.00
|   |   |   |   |   |   |   |   |   |--- hum > -0.37
|   |   |   |   |   |   |   |   |   |   |--- registered <= 0.52
|   |   |   |   |   |   |   |   |   |   |   |--- windspeed <= -0.34
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6685.00
|   |   |   |   |   |   |   |   |   |   |   |--- windspeed > -0.34
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6597.00
|   |   |   |   |   |   |   |   |   |   |--- registered > 0.52
|   |   |   |   |   |   |   |   |   |   |   |--- mnth <= -0.01
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6734.00
|   |   |   |   |   |   |   |   |   |   |   |--- mnth > -0.01
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6824.00
|   |   |   |--- casual > 2.19
|   |   |   |   |--- registered <= 0.63
|   |   |   |   |   |--- atemp <= 1.24
|   |   |   |   |   |   |--- registered <= 0.34
|   |   |   |   |   |   |   |--- instant <= 0.49
|   |   |   |   |   |   |   |   |--- value: 6857.00
|   |   |   |   |   |   |   |--- instant > 0.49
|   |   |   |   |   |   |   |   |--- temp <= 1.07
|   |   |   |   |   |   |   |   |   |--- windspeed <= 0.76
|   |   |   |   |   |   |   |   |   |   |--- value: 6591.00
|   |   |   |   |   |   |   |   |   |--- windspeed > 0.76
|   |   |   |   |   |   |   |   |   |   |--- value: 6624.00
|   |   |   |   |   |   |   |   |--- temp > 1.07
|   |   |   |   |   |   |   |   |   |--- value: 6536.00
|   |   |   |   |   |   |--- registered > 0.34
|   |   |   |   |   |   |   |--- casual <= 2.65
|   |   |   |   |   |   |   |   |--- windspeed <= -0.58
|   |   |   |   |   |   |   |   |   |--- casual <= 2.40
|   |   |   |   |   |   |   |   |   |   |--- value: 6969.00
|   |   |   |   |   |   |   |   |   |--- casual > 2.40
|   |   |   |   |   |   |   |   |   |   |--- value: 6978.00
|   |   |   |   |   |   |   |   |--- windspeed > -0.58
|   |   |   |   |   |   |   |   |   |--- windspeed <= -0.53
|   |   |   |   |   |   |   |   |   |   |--- value: 6891.00
|   |   |   |   |   |   |   |   |   |--- windspeed > -0.53
|   |   |   |   |   |   |   |   |   |   |--- value: 6883.00
|   |   |   |   |   |   |   |--- casual > 2.65
|   |   |   |   |   |   |   |   |--- value: 7130.50
|   |   |   |   |   |--- atemp > 1.24
|   |   |   |   |   |   |--- value: 6043.00
|   |   |   |   |--- registered > 0.63
|   |   |   |   |   |--- casual <= 2.86
|   |   |   |   |   |   |--- registered <= 0.87
|   |   |   |   |   |   |   |--- casual <= 2.61
|   |   |   |   |   |   |   |   |--- atemp <= 0.67
|   |   |   |   |   |   |   |   |   |--- value: 7429.00
|   |   |   |   |   |   |   |   |--- atemp > 0.67
|   |   |   |   |   |   |   |   |   |--- holiday <= 2.82
|   |   |   |   |   |   |   |   |   |   |--- value: 7410.00
|   |   |   |   |   |   |   |   |   |--- holiday > 2.82
|   |   |   |   |   |   |   |   |   |   |--- value: 7403.00
|   |   |   |   |   |   |   |--- casual > 2.61
|   |   |   |   |   |   |   |   |--- windspeed <= -0.37
|   |   |   |   |   |   |   |   |   |--- value: 7498.00
|   |   |   |   |   |   |   |   |--- windspeed > -0.37
|   |   |   |   |   |   |   |   |   |--- value: 7459.00
|   |   |   |   |   |   |--- registered > 0.87
|   |   |   |   |   |   |   |--- value: 7641.00
|   |   |   |   |   |--- casual > 2.86
|   |   |   |   |   |   |--- windspeed <= -1.20
|   |   |   |   |   |   |   |--- value: 8294.00
|   |   |   |   |   |   |--- windspeed > -1.20
|   |   |   |   |   |   |   |--- hum <= -0.52
|   |   |   |   |   |   |   |   |--- value: 7702.00
|   |   |   |   |   |   |   |--- hum > -0.52
|   |   |   |   |   |   |   |   |--- registered <= 0.77
|   |   |   |   |   |   |   |   |   |--- value: 7836.00
|   |   |   |   |   |   |   |   |--- registered > 0.77
|   |   |   |   |   |   |   |   |   |--- value: 7865.00
|   |   |--- registered > 1.07
|   |   |   |--- registered <= 1.43
|   |   |   |   |--- weekday <= 1.25
|   |   |   |   |   |--- casual <= 0.31
|   |   |   |   |   |   |--- registered <= 1.21
|   |   |   |   |   |   |   |--- casual <= 0.21
|   |   |   |   |   |   |   |   |--- weekday <= -0.25
|   |   |   |   |   |   |   |   |   |--- value: 6290.00
|   |   |   |   |   |   |   |   |--- weekday > -0.25
|   |   |   |   |   |   |   |   |   |--- windspeed <= -0.80
|   |   |   |   |   |   |   |   |   |   |--- atemp <= 0.74
|   |   |   |   |   |   |   |   |   |   |   |--- value: 6196.00
|   |   |   |   |   |   |   |   |   |   |--- atemp > 0.74
|   |   |   |   |   |   |   |   |   |   |   |--- value: 6211.00
|   |   |   |   |   |   |   |   |   |--- windspeed > -0.80
|   |   |   |   |   |   |   |   |   |   |--- value: 6169.00
|   |   |   |   |   |   |   |--- casual > 0.21
|   |   |   |   |   |   |   |   |--- weathersit <= 0.19
|   |   |   |   |   |   |   |   |   |--- value: 6436.00
|   |   |   |   |   |   |   |   |--- weathersit > 0.19
|   |   |   |   |   |   |   |   |   |--- value: 6530.00
|   |   |   |   |   |   |--- registered > 1.21
|   |   |   |   |   |   |   |--- registered <= 1.36
|   |   |   |   |   |   |   |   |--- hum <= 0.69
|   |   |   |   |   |   |   |   |   |--- hum <= -0.74
|   |   |   |   |   |   |   |   |   |   |--- casual <= 0.25
|   |   |   |   |   |   |   |   |   |   |   |--- value: 6691.00
|   |   |   |   |   |   |   |   |   |   |--- casual > 0.25
|   |   |   |   |   |   |   |   |   |   |   |--- value: 6660.00
|   |   |   |   |   |   |   |   |   |--- hum > -0.74
|   |   |   |   |   |   |   |   |   |   |--- temp <= 1.21
|   |   |   |   |   |   |   |   |   |   |   |--- windspeed <= -0.87
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6565.00
|   |   |   |   |   |   |   |   |   |   |   |--- windspeed > -0.87
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6570.50
|   |   |   |   |   |   |   |   |   |   |--- temp > 1.21
|   |   |   |   |   |   |   |   |   |   |   |--- weathersit <= 0.19
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6591.00
|   |   |   |   |   |   |   |   |   |   |   |--- weathersit > 0.19
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6664.00
|   |   |   |   |   |   |   |   |--- hum > 0.69
|   |   |   |   |   |   |   |   |   |--- value: 6421.00
|   |   |   |   |   |   |   |--- registered > 1.36
|   |   |   |   |   |   |   |   |--- atemp <= 1.68
|   |   |   |   |   |   |   |   |   |--- registered <= 1.40
|   |   |   |   |   |   |   |   |   |   |--- value: 6861.00
|   |   |   |   |   |   |   |   |   |--- registered > 1.40
|   |   |   |   |   |   |   |   |   |   |--- value: 6825.00
|   |   |   |   |   |   |   |   |--- atemp > 1.68
|   |   |   |   |   |   |   |   |   |--- value: 6786.00
|   |   |   |   |   |--- casual > 0.31
|   |   |   |   |   |   |--- weekday <= 0.75
|   |   |   |   |   |   |   |--- registered <= 1.35
|   |   |   |   |   |   |   |   |--- windspeed <= -0.31
|   |   |   |   |   |   |   |   |   |--- hum <= -1.10
|   |   |   |   |   |   |   |   |   |   |--- value: 6772.00
|   |   |   |   |   |   |   |   |   |--- hum > -1.10
|   |   |   |   |   |   |   |   |   |   |--- casual <= 0.44
|   |   |   |   |   |   |   |   |   |   |   |--- value: 6830.00
|   |   |   |   |   |   |   |   |   |   |--- casual > 0.44
|   |   |   |   |   |   |   |   |   |   |   |--- casual <= 0.62
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6883.00
|   |   |   |   |   |   |   |   |   |   |   |--- casual > 0.62
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6871.00
|   |   |   |   |   |   |   |   |--- windspeed > -0.31
|   |   |   |   |   |   |   |   |   |--- mnth <= -0.30
|   |   |   |   |   |   |   |   |   |   |--- value: 6770.00
|   |   |   |   |   |   |   |   |   |--- mnth > -0.30
|   |   |   |   |   |   |   |   |   |   |--- registered <= 1.28
|   |   |   |   |   |   |   |   |   |   |   |--- value: 6779.00
|   |   |   |   |   |   |   |   |   |   |--- registered > 1.28
|   |   |   |   |   |   |   |   |   |   |   |--- value: 6784.00
|   |   |   |   |   |   |   |--- registered > 1.35
|   |   |   |   |   |   |   |   |--- casual <= 0.49
|   |   |   |   |   |   |   |   |   |--- value: 6966.00
|   |   |   |   |   |   |   |   |--- casual > 0.49
|   |   |   |   |   |   |   |   |   |--- value: 7013.00
|   |   |   |   |   |   |--- weekday > 0.75
|   |   |   |   |   |   |   |--- mnth <= 0.28
|   |   |   |   |   |   |   |   |--- instant <= 0.80
|   |   |   |   |   |   |   |   |   |--- value: 7030.00
|   |   |   |   |   |   |   |   |--- instant > 0.80
|   |   |   |   |   |   |   |   |   |--- value: 6904.00
|   |   |   |   |   |   |   |--- mnth > 0.28
|   |   |   |   |   |   |   |   |--- windspeed <= 0.43
|   |   |   |   |   |   |   |   |   |--- value: 7175.00
|   |   |   |   |   |   |   |   |--- windspeed > 0.43
|   |   |   |   |   |   |   |   |   |--- value: 7148.00
|   |   |   |   |--- weekday > 1.25
|   |   |   |   |   |--- value: 8120.00
|   |   |   |--- registered > 1.43
|   |   |   |   |--- casual <= 0.40
|   |   |   |   |   |--- registered <= 1.61
|   |   |   |   |   |   |--- casual <= 0.12
|   |   |   |   |   |   |   |--- weathersit <= 0.19
|   |   |   |   |   |   |   |   |--- value: 6879.00
|   |   |   |   |   |   |   |--- weathersit > 0.19
|   |   |   |   |   |   |   |   |--- value: 6855.00
|   |   |   |   |   |   |--- casual > 0.12
|   |   |   |   |   |   |   |--- hum <= 0.52
|   |   |   |   |   |   |   |   |--- atemp <= 1.24
|   |   |   |   |   |   |   |   |   |--- weekday <= -0.25
|   |   |   |   |   |   |   |   |   |   |--- instant <= 1.12
|   |   |   |   |   |   |   |   |   |   |   |--- mnth <= 0.14
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 6999.50
|   |   |   |   |   |   |   |   |   |   |   |--- mnth > 0.14
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 7006.00
|   |   |   |   |   |   |   |   |   |   |--- instant > 1.12
|   |   |   |   |   |   |   |   |   |   |   |--- value: 7040.00
|   |   |   |   |   |   |   |   |   |--- weekday > -0.25
|   |   |   |   |   |   |   |   |   |   |--- value: 7055.00
|   |   |   |   |   |   |   |   |--- atemp > 1.24
|   |   |   |   |   |   |   |   |   |--- value: 7105.00
|   |   |   |   |   |   |   |--- hum > 0.52
|   |   |   |   |   |   |   |   |--- value: 6917.00
|   |   |   |   |   |--- registered > 1.61
|   |   |   |   |   |   |--- registered <= 1.71
|   |   |   |   |   |   |   |--- temp <= 1.15
|   |   |   |   |   |   |   |   |--- windspeed <= -0.75
|   |   |   |   |   |   |   |   |   |--- value: 7375.00
|   |   |   |   |   |   |   |   |--- windspeed > -0.75
|   |   |   |   |   |   |   |   |   |--- value: 7336.50
|   |   |   |   |   |   |   |--- temp > 1.15
|   |   |   |   |   |   |   |   |--- registered <= 1.67
|   |   |   |   |   |   |   |   |   |--- value: 7216.00
|   |   |   |   |   |   |   |   |--- registered > 1.67
|   |   |   |   |   |   |   |   |   |--- value: 7262.50
|   |   |   |   |   |   |--- registered > 1.71
|   |   |   |   |   |   |   |--- mnth <= 0.28
|   |   |   |   |   |   |   |   |--- atemp <= 0.66
|   |   |   |   |   |   |   |   |   |--- value: 7494.00
|   |   |   |   |   |   |   |   |--- atemp > 0.66
|   |   |   |   |   |   |   |   |   |--- windspeed <= -0.72
|   |   |   |   |   |   |   |   |   |   |--- value: 7424.00
|   |   |   |   |   |   |   |   |   |--- windspeed > -0.72
|   |   |   |   |   |   |   |   |   |   |--- temp <= 0.97
|   |   |   |   |   |   |   |   |   |   |   |--- value: 7442.00
|   |   |   |   |   |   |   |   |   |   |--- temp > 0.97
|   |   |   |   |   |   |   |   |   |   |   |--- value: 7446.00
|   |   |   |   |   |   |   |--- mnth > 0.28
|   |   |   |   |   |   |   |   |--- value: 7580.00
|   |   |   |   |--- casual > 0.40
|   |   |   |   |   |--- instant <= 0.45
|   |   |   |   |   |   |--- value: 8362.00
|   |   |   |   |   |--- instant > 0.45
|   |   |   |   |   |   |--- registered <= 1.93
|   |   |   |   |   |   |   |--- registered <= 1.64
|   |   |   |   |   |   |   |   |--- casual <= 0.91
|   |   |   |   |   |   |   |   |   |--- hum <= -0.06
|   |   |   |   |   |   |   |   |   |   |--- hum <= -0.58
|   |   |   |   |   |   |   |   |   |   |   |--- value: 7384.00
|   |   |   |   |   |   |   |   |   |   |--- hum > -0.58
|   |   |   |   |   |   |   |   |   |   |   |--- registered <= 1.61
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 7348.50
|   |   |   |   |   |   |   |   |   |   |   |--- registered > 1.61
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 7363.00
|   |   |   |   |   |   |   |   |   |--- hum > -0.06
|   |   |   |   |   |   |   |   |   |   |--- windspeed <= -0.74
|   |   |   |   |   |   |   |   |   |   |   |--- value: 7273.00
|   |   |   |   |   |   |   |   |   |   |--- windspeed > -0.74
|   |   |   |   |   |   |   |   |   |   |   |--- mnth <= -0.15
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 7290.00
|   |   |   |   |   |   |   |   |   |   |   |--- mnth > -0.15
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 7286.00
|   |   |   |   |   |   |   |   |--- casual > 0.91
|   |   |   |   |   |   |   |   |   |--- temp <= 1.04
|   |   |   |   |   |   |   |   |   |   |--- instant <= 0.72
|   |   |   |   |   |   |   |   |   |   |   |--- value: 7639.00
|   |   |   |   |   |   |   |   |   |   |--- instant > 0.72
|   |   |   |   |   |   |   |   |   |   |   |--- value: 7665.00
|   |   |   |   |   |   |   |   |   |--- temp > 1.04
|   |   |   |   |   |   |   |   |   |   |--- value: 7499.00
|   |   |   |   |   |   |   |--- registered > 1.64
|   |   |   |   |   |   |   |   |--- windspeed <= 1.12
|   |   |   |   |   |   |   |   |   |--- atemp <= 1.03
|   |   |   |   |   |   |   |   |   |   |--- registered <= 1.80
|   |   |   |   |   |   |   |   |   |   |   |--- hum <= -0.53
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 7736.00
|   |   |   |   |   |   |   |   |   |   |   |--- hum > -0.53
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 7765.00
|   |   |   |   |   |   |   |   |   |   |--- registered > 1.80
|   |   |   |   |   |   |   |   |   |   |   |--- value: 7697.00
|   |   |   |   |   |   |   |   |   |--- atemp > 1.03
|   |   |   |   |   |   |   |   |   |   |--- instant <= 1.13
|   |   |   |   |   |   |   |   |   |   |   |--- atemp <= 1.43
|   |   |   |   |   |   |   |   |   |   |   |   |--- hum <= -0.43
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 7605.00
|   |   |   |   |   |   |   |   |   |   |   |   |--- hum > -0.43
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- atemp <= 1.24
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 7582.00
|   |   |   |   |   |   |   |   |   |   |   |   |   |--- atemp > 1.24
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |--- value: 7592.00
|   |   |   |   |   |   |   |   |   |   |   |--- atemp > 1.43
|   |   |   |   |   |   |   |   |   |   |   |   |--- value: 7534.00
|   |   |   |   |   |   |   |   |   |   |--- instant > 1.13
|   |   |   |   |   |   |   |   |   |   |   |--- value: 7713.00
|   |   |   |   |   |   |   |   |--- windspeed > 1.12
|   |   |   |   |   |   |   |   |   |--- value: 7421.00
|   |   |   |   |   |   |--- registered > 1.93
|   |   |   |   |   |   |   |--- value: 8173.00
```

In [ ]: