main

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1 Assignment

1.1 Problem

The objective of this project is develop a predictive classifier to predict the next-day rain on the target variable RainTomorrow

1.2 Group Members

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1.3 Library used

pandas

numpy

matplotlib

seaborn

plotly

sklearn

1.3.1 Link for DataSet & Source & Acknowledgements

Observations were drawn from numerous weather stations

The daily observations are available from http://www.bom.gov.au/climate/data

`<li>Definitions adapted from <a href="http://www.bom.gov.au/climate/dwo/IDCJDW0000.shtml">http`

Data source

http://www.bom.gov.au/climate/data

`<li><a href="https://www.kaggle.com/datasets/arunavakrchakraborty/australia-weather-data">https`

1.4 Importing packages

We will import all the required packages and define our dataset

```python
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.impute import SimpleImputer
from sklearn.compose import ColumnTransformer, make_column_selector
from sklearn.preprocessing import LabelEncoder
from sklearn.utils import resample
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestClassifier, GradientBoostingClassifier
from sklearn.metrics import confusion_matrix
```

1.5 Dataset

In this step we will describe the data in the dataset

This dataset contains about 10 years of daily weather observations from many locations across Australia.

1.5.1 Data Description

Location - Name of the city from Australia. . MinTemp - The Minimum temperature during a particular day. (degree Celsius) MaxTemp - The maximum temperature during a particular day. (degree Celsius) MeanTemp - The mean temperature during a particular day. (degree Celsius) Rainfall - Rainfall during a particular day. (millimeters) Evaporation - Evaporation during a particular day. (millimeters) Sunshine - Bright sunshine during a particular day. (hours) WindGusDir - The direction of the strongest gust during a particular day. (16 compass points) WindGuSpeed - Speed of strongest gust during a particular day. (kilometers per hour) WindDir9am - The direction of the wind for 10 min prior to 9 am. (compass points) WindDir3pm - The direction of the wind for 10 min prior to 3 pm. (compass points) WindSpeed9am - Speed of the wind for 10 min prior to 9 am. (kilometers per hour) WindSpeed3pm - Speed of the wind for 10 min prior to 3 pm. (kilometers per hour) Humidity9am - The humidity of the wind at 9 am. (percent) Humidity3pm - The humidity of the wind at 3 pm. (percent) AvgHumidity - The average of humidity of the wind. (percent) Pressure9am - Atmospheric pressure at 9 am. (hectopascals) Pressure3pm - Atmospheric pressure at 3 pm. (hectopascals) AvgPressure - The average Atmospheric pressure. (hectopascals) Cloud9am - Cloud-obscured portions of the sky at 9 am. (eighths) Cloud3pm - Cloud-obscured portions of the sky at 3 pm. (eighths) Temp9am - The temperature at 9 am. (degree Celsius) Temp3pm - The temperature at 3 pm. (degree Celsius) RainToday - If today is rainy then 'Yes'. If today is not rainy then 'No'. RainTomorrow - This is will be the variable containing value of "if tomorrow is rainy then 1 (Yes) or if tomorrow is not rainy then 0 (No)"

```python
df_train = pd.read_csv('WeatherTrainingData.csv')
df_test = pd.read_csv('WeatherTestData.csv')
```

```
print(df_train.shape)
print(df_test.shape)
```

```
(99516, 26)
(42677, 25)
```

```
df_train
```

```
        row ID Location  MinTemp  MaxTemp  MeanTemp  Rainfall  Evaporation  \
0            0   Albury     13.4     22.9     18.20       0.6          NaN
1            1   Albury      7.4     25.1     16.30       0.0          NaN
2            2   Albury     17.5     32.3     24.90       1.0          NaN
3            3   Albury     14.6     29.7     22.20       0.2          NaN
4            4   Albury      7.7     26.7     17.20       0.0          NaN
...        ...      ...      ...      ...       ...       ...          ...
99511    99511    Uluru      8.0     20.7     14.35       0.0          NaN
99512    99512    Uluru      3.5     21.8     12.70       0.0          NaN
99513    99513    Uluru      2.8     23.4     13.10       0.0          NaN
99514    99514    Uluru      3.6     25.3     14.50       0.0          NaN
99515    99515    Uluru      5.4     26.9     16.20       0.0          NaN

        Sunshine WindGustDir  WindGustSpeed  … AvgHumidity  Pressure9am  \
0            NaN           W           44.0  …        46.5       1007.7
1            NaN         WNW           44.0  …        34.5       1010.6
2            NaN           W           41.0  …        57.5       1010.8
3            NaN         WNW           56.0  …        39.0       1009.2
4            NaN           W           35.0  …        33.5       1013.4
...          ...         ...            ...  …         ...          ...
99511        NaN         ESE           41.0  …        44.0       1028.1
99512        NaN           E           31.0  …        43.0       1024.7
99513        NaN           E           31.0  …        37.5       1024.6
99514        NaN         NNW           22.0  …        38.5       1023.5
99515        NaN           N           37.0  …        38.5       1021.0

        Pressure3pm  AvgPressure  Cloud9am  Cloud3pm  Temp9am  Temp3pm  \
0            1007.1       1007.4       8.0       NaN     16.9     21.8
1            1007.8       1009.2       NaN       NaN     17.2     24.3
2            1006.0       1008.4       7.0       8.0     17.8     29.7
3            1005.4       1007.3       NaN       NaN     20.6     28.9
4            1010.1       1011.8       NaN       NaN     16.3     25.5
...             ...          ...       ...       ...      ...      ...
99511        1024.3       1026.2       NaN       7.0     11.6     20.0
99512        1021.2       1023.0       NaN       NaN      9.4     20.9
99513        1020.3       1022.5       NaN       NaN     10.1     22.4
99514        1019.1       1021.3       NaN       NaN     10.9     24.5
99515        1016.8       1018.9       NaN       NaN     12.5     26.1

        RainToday  RainTomorrow
```

3

```
0              No          0
1              No          0
2              No          0
3              No          0
4              No          0
...            ...         ...
99511          No          0
99512          No          0
99513          No          0
99514          No          0
99515          No          0

[99516 rows x 26 columns]
```

1.6 Data Cleaning

Now in order to use this data, we need to clean the data and remove all the empty cells from the dataset. So we will use dropna( )

```python
data_test=df_test
data_train=df_train
data_test['RainToday'] = data_test['RainToday'].map({'Yes': 1, 'No': 0})
```

```python
data_test
```

```
       row ID Location  MinTemp  MaxTemp  MeanTemp  Rainfall  Evaporation  \
0           0   Albury     12.9     25.7     19.30       0.0          NaN
1           1   Albury      9.2     28.0     18.60       0.0          NaN
2           2   Albury     14.3     25.0     19.65       0.0          NaN
3           3   Albury      9.7     31.9     20.80       0.0          NaN
4           4   Albury     15.9     18.6     17.30      15.6          NaN
...       ...      ...      ...      ...       ...       ...          ...
42672   42672    Uluru      2.4     19.1     10.80       0.0          NaN
42673   42673    Uluru      2.3     21.4     11.90       0.0          NaN
42674   42674    Uluru      2.6     22.5     12.60       0.0          NaN
42675   42675    Uluru      7.4     20.6     14.00       0.0          NaN
42676   42676    Uluru      7.8     27.0     17.40       0.0          NaN

       Sunshine WindGustDir  WindGustSpeed  … Humidity3pm AvgHumidity  \
0           NaN         WSW           46.0  …        30.0        34.0
1           NaN          NE           24.0  …        16.0        30.5
2           NaN           W           50.0  …        19.0        34.0
3           NaN         NNW           80.0  …         9.0        25.5
4           NaN           W           61.0  …        93.0        84.5
...         ...         ...            ...  …         ...         ...
42672       NaN           E           33.0  …        24.0        41.5
42673       NaN          SE           22.0  …        28.0        44.0
42674       NaN           S           19.0  …        24.0        41.5
```

4

```
42675        NaN         E        35.0  …        33.0         48.0
42676        NaN        SE        28.0  …        24.0         37.5

        Pressure9am  Pressure3pm  AvgPressure  Cloud9am  Cloud3pm  Temp9am  \
0            1007.6       1008.7      1008.20       NaN       2.0     21.0
1            1017.6       1012.8      1015.20       NaN       NaN     18.1
2            1009.6       1008.2      1008.90       1.0       NaN     18.1
3            1008.9       1003.6      1006.30       NaN       NaN     18.3
4             994.3        993.0       993.65       8.0       8.0     17.4
...             ...          ...          ...       ...       ...      ...
42672        1030.0       1026.2      1028.10       NaN       NaN      8.0
42673        1026.9       1022.8      1024.90       NaN       NaN      8.9
42674        1025.0       1021.4      1023.20       NaN       NaN      8.8
42675        1027.2       1023.3      1025.30       NaN       NaN     11.0
42676        1019.4       1016.5      1018.00       3.0       2.0     15.1

        Temp3pm  RainToday
0          23.2        0.0
1          26.5        0.0
2          24.6        0.0
3          30.2        0.0
4          15.8        1.0
...         ...        ...
42672      18.8        0.0
42673      20.3        0.0
42674      22.1        0.0
42675      20.3        0.0
42676      26.0        0.0

[42677 rows x 25 columns]
```

```python
data_test.drop(columns=['Sunshine', 'Evaporation'], inplace=True)
categorical = data_test.select_dtypes(include = "object").columns
cleaner = ColumnTransformer([
    ('categorical_transformer', SimpleImputer(strategy='most_frequent'),
 categorical)
])
data_test[categorical] = cleaner.fit_transform(data_test[categorical])
null_columns=data_test.columns[data_test.isnull().any()]
data_test[null_columns].isnull().sum()
```

```
MinTemp           194
MaxTemp            92
Rainfall          427
WindGustSpeed    2790
WindSpeed9am      413
WindSpeed3pm      795
```

```
Humidity9am          541
Humidity3pm         1104
Pressure9am         4266
Pressure3pm         4245
Cloud9am           16085
Cloud3pm           17092
Temp9am              290
Temp3pm              822
RainToday            427
dtype: int64
```

```python
# Remove rows with missing data
data_test_clean = data_test.dropna()
# Print the cleaned dataset
print("Cleaned dataset:")
print(data_test_clean)
```

```
Cleaned dataset:
        row ID Location  MinTemp  MaxTemp  MeanTemp  Rainfall WindGustDir  \
4            4   Albury     15.9     18.6      17.3      15.6           W
16          16   Albury     24.4     34.0      29.2       0.6          NW
22          22   Albury     18.4     31.2      24.8       0.4          SE
23          23   Albury     16.1     21.6      18.9       0.0          SE
26          26   Albury      8.9     31.9      20.4       0.0         WNW
...        ...      ...      ...      ...       ...       ...         ...
42656    42656    Uluru     15.6     27.3      21.5       0.0         SSE
42667    42667    Uluru     14.6     26.3      20.5       0.0           S
42668    42668    Uluru     14.3     27.6      21.0       0.4         WNW
42670    42670    Uluru     12.7     22.2      17.5       0.0           E
42676    42676    Uluru      7.8     27.0      17.4       0.0          SE

        WindGustSpeed WindDir9am WindDir3pm  ...  Humidity3pm  AvgHumidity  \
4                61.0        NNW        NNW  ...         93.0         84.5
16               98.0          N        NNW  ...         39.0         49.5
22               37.0         SW        WSW  ...         31.0         48.5
23               46.0        SSE         NE  ...         69.0         63.5
26               43.0          N        WSW  ...         16.0         32.5
...               ...        ...        ...  ...          ...          ...
42656            41.0         SE        SSE  ...         45.0         61.0
42667            37.0        SSW          S  ...         36.0         48.5
42668            39.0          N         NW  ...         27.0         47.5
42670            37.0          E        ESE  ...         34.0         46.5
42676            28.0        SSE          N  ...         24.0         37.5

        Pressure9am  Pressure3pm  AvgPressure  Cloud9am  Cloud3pm  Temp9am  \
4             994.3        993.0       993.65       8.0       8.0     17.4
16           1005.3        997.8      1001.60       4.0       1.0     26.1
22           1009.3       1007.8      1008.60       7.0       8.0     18.7
```

```
23          1017.0      1017.3      1017.15       2.0       8.0      17.0
26          1016.6      1013.4      1015.00       7.0       7.0      15.0
...            ...         ...          ...       ...       ...       ...
42656       1018.0      1014.9      1016.45       8.0       4.0      19.3
42667       1022.0      1018.6      1020.30       7.0       1.0      15.4
42668       1020.5      1016.1      1018.30       4.0       7.0      16.1
42670       1024.3      1021.7      1023.00       8.0       8.0      13.9
42676       1019.4      1016.5      1018.00       3.0       2.0      15.1

        Temp3pm  RainToday
4          15.8        1.0
16         33.1        0.0
22         29.4        0.0
23         17.3        0.0
26         29.3        0.0
...         ...         ...
42656      26.4        0.0
42667      25.0        0.0
42668      27.2        0.0
42670      21.0        0.0
42676      26.0        0.0

[22011 rows x 23 columns]
```

2 Data Analysis

Now we will plot graphs comparing diffrent characteristics of our dataset

2.1 1. Feature Distribution

```python
X = df_train.drop(columns=['RainTomorrow'])
y = df_train['RainTomorrow']
df = pd.concat([X, df_test], axis=0)
```

```python
df.describe().T
```

```
                   count         mean         std     min      25%       50% \
row ID          142193.0  41227.832566  28156.744372   0.0  17774.0  35548.00
MinTemp         141556.0     12.186400      6.403283  -8.5      7.6     12.00
MaxTemp         141871.0     23.226784      7.117618  -4.8     17.9     22.60
MeanTemp        142193.0     17.672565      6.328795  -6.2     12.9     17.35
Rainfall        140787.0      2.349974      8.465173   0.0      0.0      0.00
Evaporation      56985.0      5.461320      4.162490   0.0      2.6      4.80
Sunshine         52199.0      7.615090      3.783008   0.0      4.8      8.40
WindGustSpeed   132923.0     39.984292     13.588801   6.0     31.0     39.00
WindSpeed9am    140845.0     14.001988      8.893337   0.0      7.0     13.00
WindSpeed3pm    139563.0     18.637576      8.803345   0.0     13.0     19.00
```

```
Humidity9am     140419.0      68.843810     19.051293      0.0      57.0      70.00
Humidity3pm     138583.0      51.482606     20.797772      0.0      37.0      52.00
AvgHumidity     142193.0      59.080240     19.084638      0.0      47.0      60.50
Pressure9am     128179.0    1017.653758      7.105476    980.5    1012.9    1017.60
Pressure3pm     128212.0    1015.258204      7.036677    977.1    1010.4    1015.20
AvgPressure     142193.0     916.413905    301.650595      0.0    1009.8    1015.50
Cloud9am         88536.0       4.437189      2.887016      0.0       1.0       5.00
Cloud3pm         85099.0       4.503167      2.720633      0.0       2.0       5.00
Temp9am         141289.0      16.987509      6.492838     -7.2      12.3      16.70
Temp3pm         139467.0      21.687235      6.937594     -5.4      16.6      21.10

                    75%       max
row ID          63967.0   99515.0
MinTemp            16.8      33.9
MaxTemp            28.2      48.1
MeanTemp           22.3      38.8
Rainfall            0.8     371.0
Evaporation         7.4      86.2
Sunshine           10.6      14.5
WindGustSpeed      48.0     135.0
WindSpeed9am       19.0     130.0
WindSpeed3pm       24.0      87.0
Humidity9am        83.0     100.0
Humidity3pm        66.0     100.0
AvgHumidity        72.5     100.0
Pressure9am      1022.4    1041.0
Pressure3pm      1020.0    1039.6
AvgPressure      1020.6    1040.1
Cloud9am            7.0       9.0
Cloud3pm            7.0       9.0
Temp9am            21.6      40.2
Temp3pm            26.4      46.7
```

```python
df.drop(columns='row ID', inplace=True)
total = df.isnull().sum().sort_values(ascending=False)
percent = (df.isnull().sum() / df.isnull().count()).sort_values(ascending=False)
missing_data = pd.concat([total, percent], axis=1, keys=['Total', 'Percent'])
missing_data
```

```
                Total    Percent
Sunshine        89994   0.632900
Evaporation     85208   0.599242
Cloud3pm        57094   0.401525
Cloud9am        53657   0.377353
Pressure9am     14014   0.098556
Pressure3pm     13981   0.098324
WindGustSpeed    9270   0.065193
```

```
WindDir9am       7006   0.049271
WindGustDir      6521   0.045860
Humidity3pm      3610   0.025388
Temp3pm          2726   0.019171
WindDir3pm       2648   0.018623
WindSpeed3pm     2630   0.018496
Humidity9am      1774   0.012476
RainToday        1406   0.009888
Rainfall         1406   0.009888
WindSpeed9am     1348   0.009480
Temp9am           904   0.006358
MinTemp           637   0.004480
MaxTemp           322   0.002265
AvgHumidity         0   0.000000
AvgPressure         0   0.000000
MeanTemp            0   0.000000
Location            0   0.000000
```

```python
df.drop(columns=['Sunshine', 'Evaporation'], inplace=True)
df.dtypes
```

```
Location         object
MinTemp          float64
MaxTemp          float64
MeanTemp         float64
Rainfall         float64
WindGustDir      object
WindGustSpeed    float64
WindDir9am       object
WindDir3pm       object
WindSpeed9am     float64
WindSpeed3pm     float64
Humidity9am      float64
Humidity3pm      float64
AvgHumidity      float64
Pressure9am      float64
Pressure3pm      float64
AvgPressure      float64
Cloud9am         float64
Cloud3pm         float64
Temp9am          float64
Temp3pm          float64
RainToday        object
dtype: object
```

```python
categorical = df.select_dtypes(include = "object").columns
cleaner = ColumnTransformer([
```

```
        ('categorical_transformer', SimpleImputer(strategy='most_frequent'),
    ↪categorical)
])
df[categorical] = cleaner.fit_transform(df[categorical])

null_columns=df.columns[df.isnull().any()]
df[null_columns].isnull().sum()
```

```
[ ]: MinTemp            637
     MaxTemp            322
     Rainfall          1406
     WindGustSpeed     9270
     WindSpeed9am      1348
     WindSpeed3pm      2630
     Humidity9am       1774
     Humidity3pm       3610
     Pressure9am      14014
     Pressure3pm      13981
     Cloud9am         53657
     Cloud3pm         57094
     Temp9am            904
     Temp3pm           2726
     dtype: int64
```

```
[ ]: df = df.fillna(df.median())
     df.isnull().sum()
```

/var/folders/df/npmhf4fs0qb8cnwm2kmptxk00000gn/T/ipykernel_20957/1273592041.py:1
: FutureWarning: The default value of numeric_only in DataFrame.median is
deprecated. In a future version, it will default to False. In addition,
specifying 'numeric_only=None' is deprecated. Select only valid columns or
specify the value of numeric_only to silence this warning.
  df = df.fillna(df.median())

```
[ ]: Location          0
     MinTemp           0
     MaxTemp           0
     MeanTemp          0
     Rainfall          0
     WindGustDir       0
     WindGustSpeed     0
     WindDir9am        0
     WindDir3pm        0
     WindSpeed9am      0
     WindSpeed3pm      0
     Humidity9am       0
     Humidity3pm       0
     AvgHumidity       0
```

```
    Pressure9am       0
    Pressure3pm       0
    AvgPressure       0
    Cloud9am          0
    Cloud3pm          0
    Temp9am           0
    Temp3pm           0
    RainToday         0
    dtype: int64
```

```python
categorical = df.select_dtypes(include = "object").columns
for i in range(len(categorical)):
    print(df[categorical[i]].value_counts())
    print('*********************************\n')
```

```
Canberra            3418
Sydney              3337
Perth               3193
Darwin              3192
Hobart              3188
Brisbane            3161
Adelaide            3090
Bendigo             3034
Townsville          3033
AliceSprings        3031
MountGambier        3030
Launceston          3028
Ballarat            3028
Albany              3016
Albury              3011
PerthAirport        3009
MelbourneAirport    3009
Mildura             3007
SydneyAirport       3005
Nuriootpa           3002
Sale                3000
Watsonia            2999
Tuggeranong         2998
Portland            2996
Woomera             2990
Cairns              2988
Cobar               2988
Wollongong          2983
GoldCoast           2980
WaggaWagga          2976
Penrith             2964
NorfolkIsland       2964
SalmonGums          2955
```

```
Newcastle          2955
CoffsHarbour       2953
Witchcliffe        2952
Richmond           2951
Dartmoor           2943
NorahHead          2929
BadgerysCreek      2928
MountGinini        2907
Moree              2854
Walpole            2819
PearceRAAF         2762
Williamtown        2553
Melbourne          2435
Nhil               1569
Katherine          1559
Uluru              1521
Name: Location, dtype: int64
**********************************

W        19110
SE        9309
E         9071
N         9033
SSE       8993
S         8949
WSW       8901
SW        8797
SSW       8610
WNW       8066
NW        8003
ENE       7992
ESE       7305
NE        7060
NNW       6561
NNE       6433
Name: WindGustDir, dtype: int64
**********************************

N        21406
SE        9162
E         9024
SSE       8966
NW        8552
S         8493
W         8260
SW        8237
NNE       7948
NNW       7840
```

```
ENE        7735
ESE        7558
NE         7527
SSW        7448
WNW        7194
WSW        6843
Name: WindDir9am, dtype: int64
**********************************

SE        14441
W          9911
S          9598
WSW        9329
SW         9182
SSE        9142
N          8667
WNW        8656
NW         8468
ESE        8382
E          8342
NE         8164
SSW        8010
NNW        7733
ENE        7724
NNE        6444
Name: WindDir3pm, dtype: int64
**********************************

No        77887
0.0       32851
Yes       22056
1.0        9399
Name: RainToday, dtype: int64
**********************************
```

```python
from sklearn.preprocessing import LabelEncoder

for col in df.columns:
    if df[col].dtype == 'object':
        df[col] = df[col].astype(str)
        df[col] = LabelEncoder().fit_transform(df[col])

df
```

```
[ ]:        Location  MinTemp  MaxTemp  MeanTemp  Rainfall  WindGustDir  \
    0               2     13.4     22.9      18.2       0.6           13
```

```
1              2       7.4     25.1      16.3         0.0           14
2              2      17.5     32.3      24.9         1.0           13
3              2      14.6     29.7      22.2         0.2           14
4              2       7.7     26.7      17.2         0.0           13
…              …        …        …         …           …
42672         41       2.4     19.1      10.8         0.0            0
42673         41       2.3     21.4      11.9         0.0            9
42674         41       2.6     22.5      12.6         0.0            8
42675         41       7.4     20.6      14.0         0.0            0
42676         41       7.8     27.0      17.4         0.0            9

       WindGustSpeed  WindDir9am  WindDir3pm  WindSpeed9am  …  Humidity3pm  \
0               44.0          13          14          20.0  …         22.0
1               44.0           6          15           4.0  …         25.0
2               41.0           1           7           7.0  …         33.0
3               56.0          13          13          19.0  …         23.0
4               35.0          10          13           6.0  …         19.0
…                 …           …           …            …   …           …
42672           33.0           9           0          17.0  …         24.0
42673           22.0           9          10          11.0  …         28.0
42674           19.0           8           0           9.0  …         24.0
42675           35.0           2           0          15.0  …         33.0
42676           28.0          10           3          13.0  …         24.0

       AvgHumidity  Pressure9am  Pressure3pm  AvgPressure  Cloud9am  Cloud3pm  \
0             46.5       1007.7       1007.1       1007.4       8.0       5.0
1             34.5       1010.6       1007.8       1009.2       5.0       5.0
2             57.5       1010.8       1006.0       1008.4       7.0       8.0
3             39.0       1009.2       1005.4       1007.3       5.0       5.0
4             33.5       1013.4       1010.1       1011.8       5.0       5.0
…               …           …            …            …         …         …
42672         41.5       1030.0       1026.2       1028.1       5.0       5.0
42673         44.0       1026.9       1022.8       1024.9       5.0       5.0
42674         41.5       1025.0       1021.4       1023.2       5.0       5.0
42675         48.0       1027.2       1023.3       1025.3       5.0       5.0
42676         37.5       1019.4       1016.5       1018.0       3.0       2.0

       Temp9am  Temp3pm  RainToday
0         16.9     21.8          2
1         17.2     24.3          2
2         17.8     29.7          2
3         20.6     28.9          2
4         16.3     25.5          2
…           …        …          …
42672      8.0     18.8          0
42673      8.9     20.3          0
42674      8.8     22.1          0
```

14

```
42675      11.0     20.3            0
42676      15.1     26.0            0

[142193 rows x 22 columns]
```

```
train = df.iloc[:99516,:]
new_train = pd.concat([train, y], axis=1)
test = df.iloc[99516:, :]
new_train
```

```
         Location  MinTemp  MaxTemp  MeanTemp  Rainfall  WindGustDir  \
0               2     13.4     22.9     18.20       0.6           13
1               2      7.4     25.1     16.30       0.0           14
2               2     17.5     32.3     24.90       1.0           13
3               2     14.6     29.7     22.20       0.2           14
4               2      7.7     26.7     17.20       0.0           13
...           ...      ...      ...       ...       ...          ...
99511          41      8.0     20.7     14.35       0.0            2
99512          41      3.5     21.8     12.70       0.0            0
99513          41      2.8     23.4     13.10       0.0            0
99514          41      3.6     25.3     14.50       0.0            6
99515          41      5.4     26.9     16.20       0.0            3

       WindGustSpeed  WindDir9am  WindDir3pm  WindSpeed9am  …  AvgHumidity  \
0               44.0          13          14          20.0  …         46.5
1               44.0           6          15           4.0  …         34.5
2               41.0           1           7           7.0  …         57.5
3               56.0          13          13          19.0  …         39.0
4               35.0          10          13           6.0  …         33.5
...              ...         ...         ...           ...  …          ...
99511           41.0           9           0          19.0  …         44.0
99512           31.0           2           0          15.0  …         43.0
99513           31.0           9           1          13.0  …         37.5
99514           22.0           9           3          13.0  …         38.5
99515           37.0           9          14           9.0  …         38.5

       Pressure9am  Pressure3pm  AvgPressure  Cloud9am  Cloud3pm  Temp9am  \
0           1007.7       1007.1       1007.4       8.0       5.0     16.9
1           1010.6       1007.8       1009.2       5.0       5.0     17.2
2           1010.8       1006.0       1008.4       7.0       8.0     17.8
3           1009.2       1005.4       1007.3       5.0       5.0     20.6
4           1013.4       1010.1       1011.8       5.0       5.0     16.3
...            ...          ...          ...       ...       ...      ...
99511       1028.1       1024.3       1026.2       5.0       7.0     11.6
99512       1024.7       1021.2       1023.0       5.0       5.0      9.4
99513       1024.6       1020.3       1022.5       5.0       5.0     10.1
99514       1023.5       1019.1       1021.3       5.0       5.0     10.9
```

```
99515         1021.0      1016.8      1018.9       5.0       5.0     12.5

       Temp3pm  RainToday  RainTomorrow
0         21.8         2            0
1         24.3         2            0
2         29.7         2            0
3         28.9         2            0
4         25.5         2            0
...        ...        ...          ...
99511     20.0         2            0
99512     20.9         2            0
99513     22.4         2            0
99514     24.5         2            0
99515     26.1         2            0

[99516 rows x 23 columns]
```

```python
plt.figure(figsize=(17,18))
cor = new_train.corr()
sns.heatmap(cor, annot=True, cmap=plt.cm.Reds,fmt='.2f')
```

```
<Axes: >
```
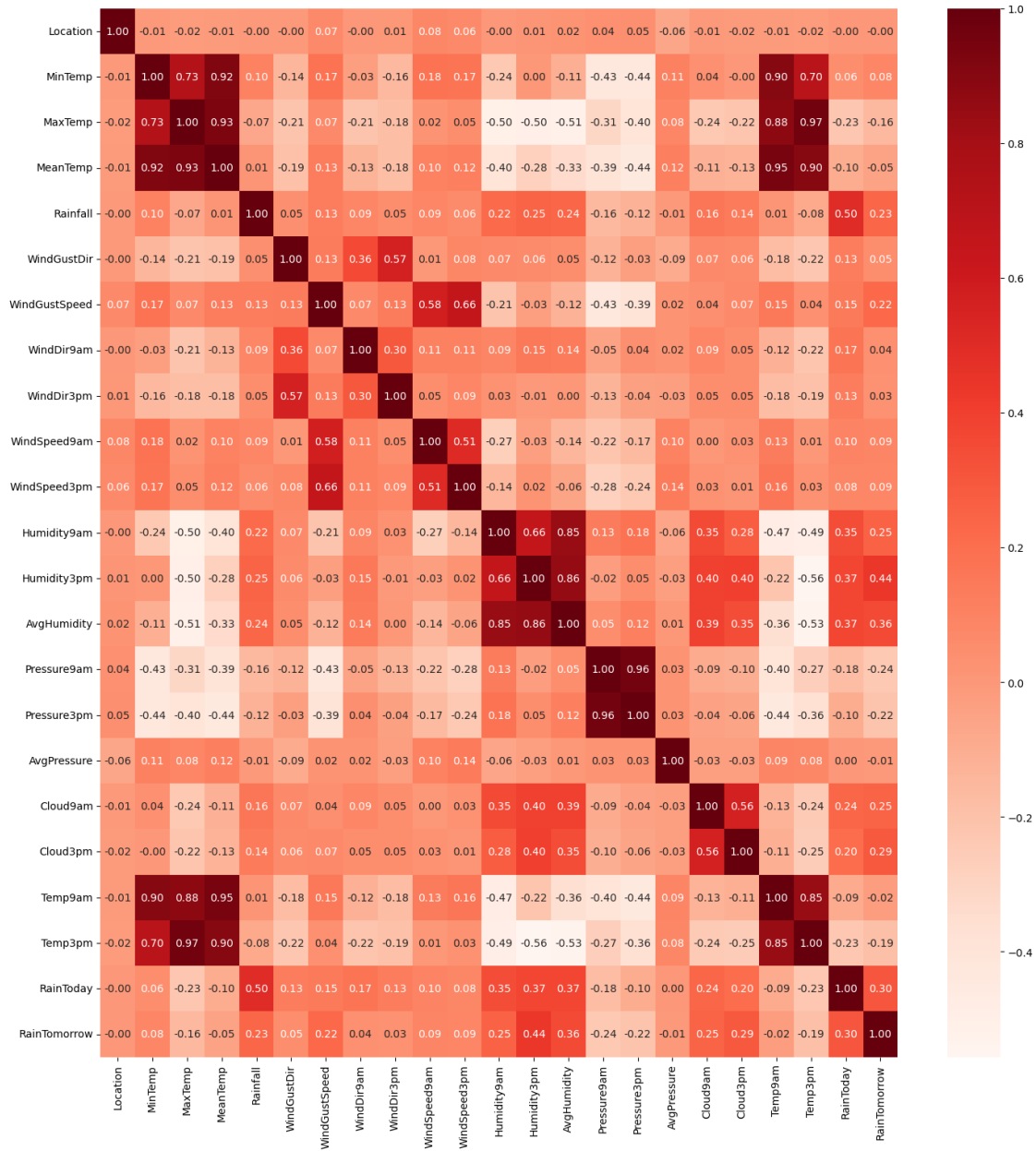
```
[ ]: sns.histplot(new_train['Humidity9am'])
```

```
[ ]: <Axes: xlabel='Humidity9am', ylabel='Count'>
```
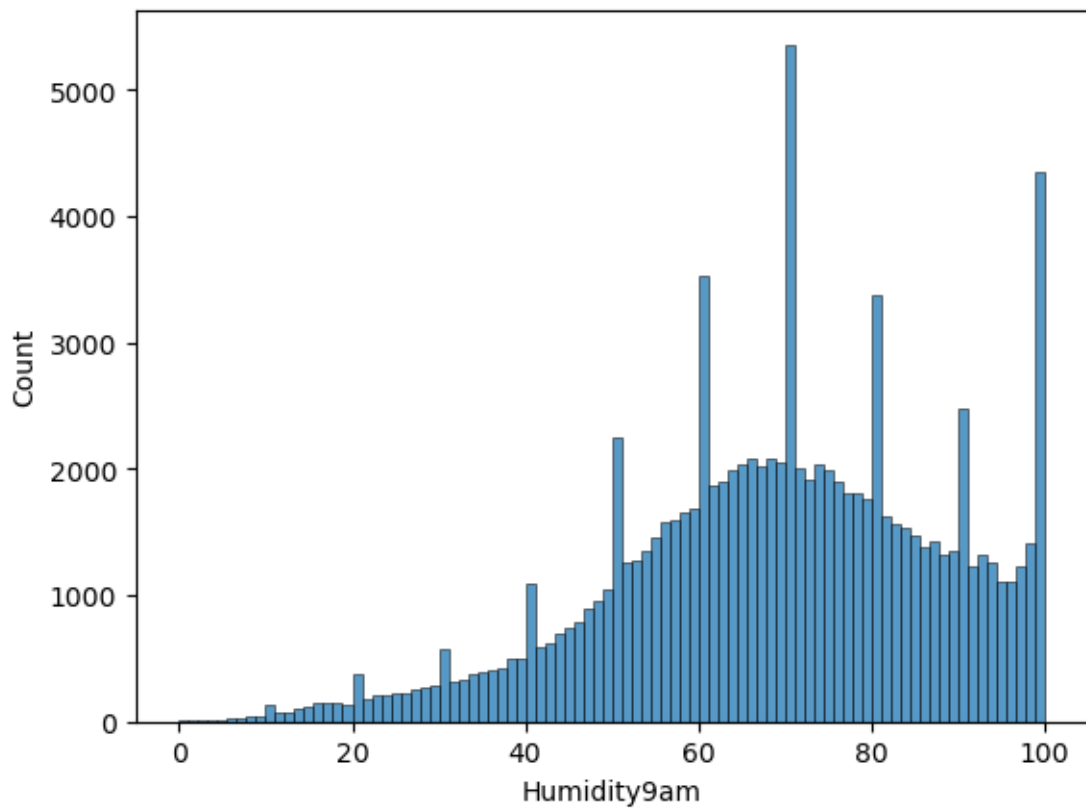
```
sns.histplot(new_train['Humidity3pm'])
```

<Axes: xlabel='Humidity3pm', ylabel='Count'>
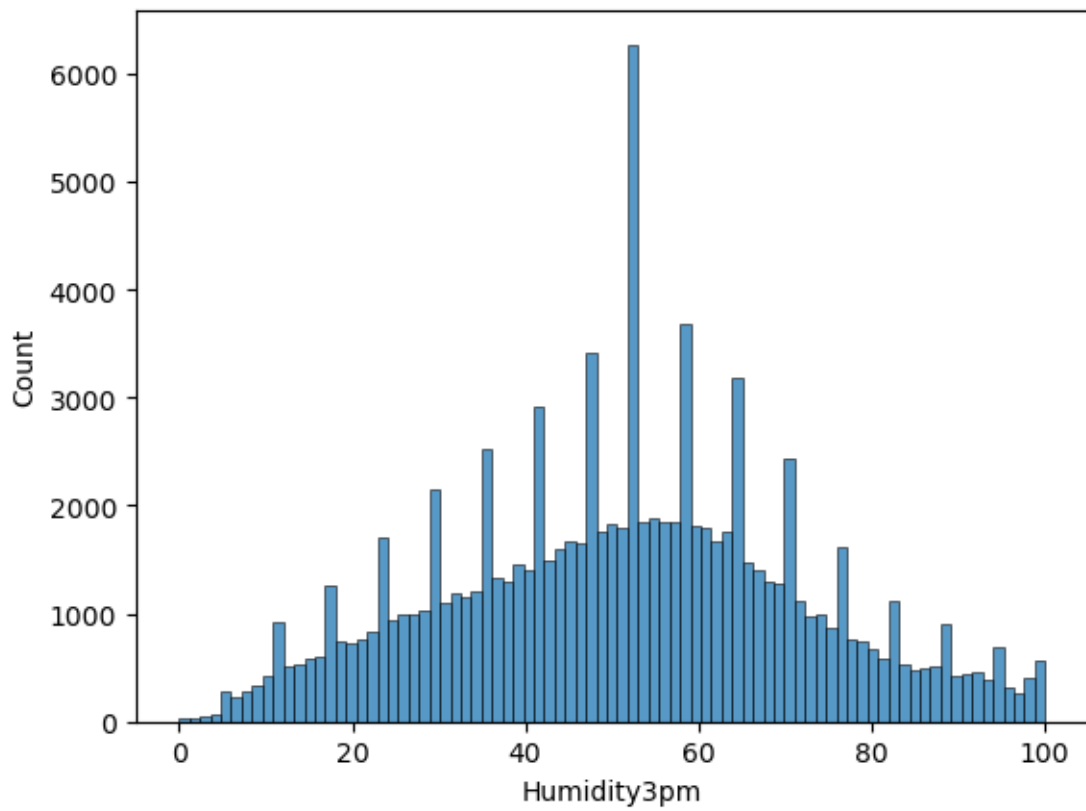
```
[ ]: sns.boxplot(x=new_train['Cloud9am'])
```

```
[ ]: <Axes: xlabel='Cloud9am'>
```

Cloud9am
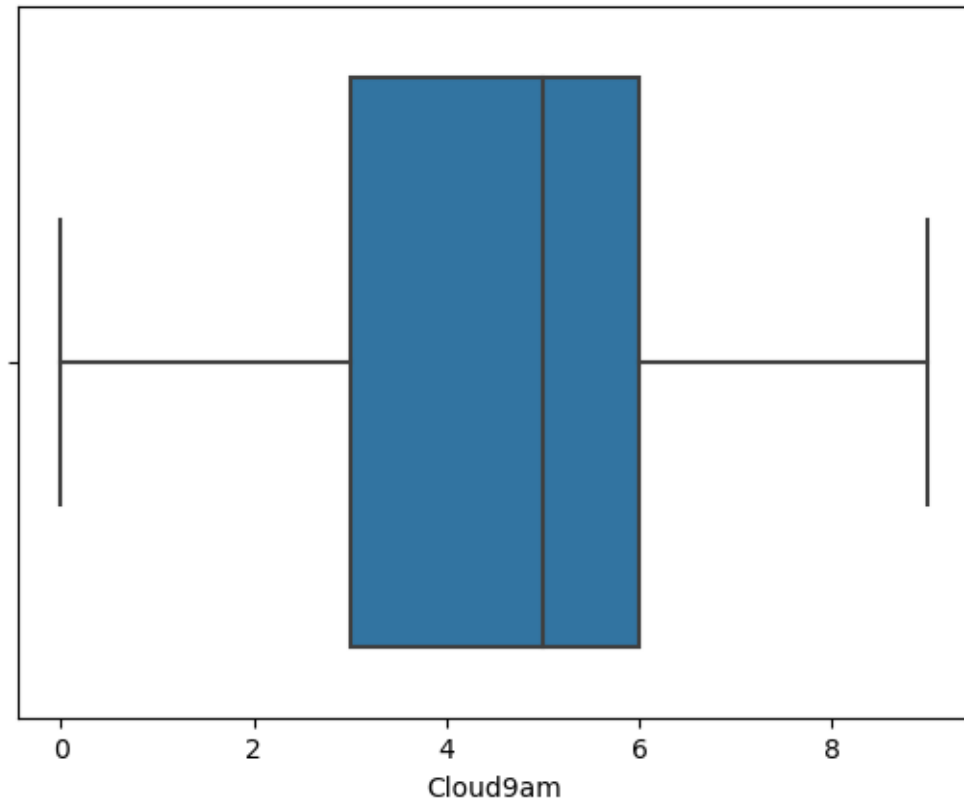
```
sns.boxplot(x=new_train['Cloud3pm'])
```

```
<Axes: xlabel='Cloud3pm'>
```

Cloud3pm
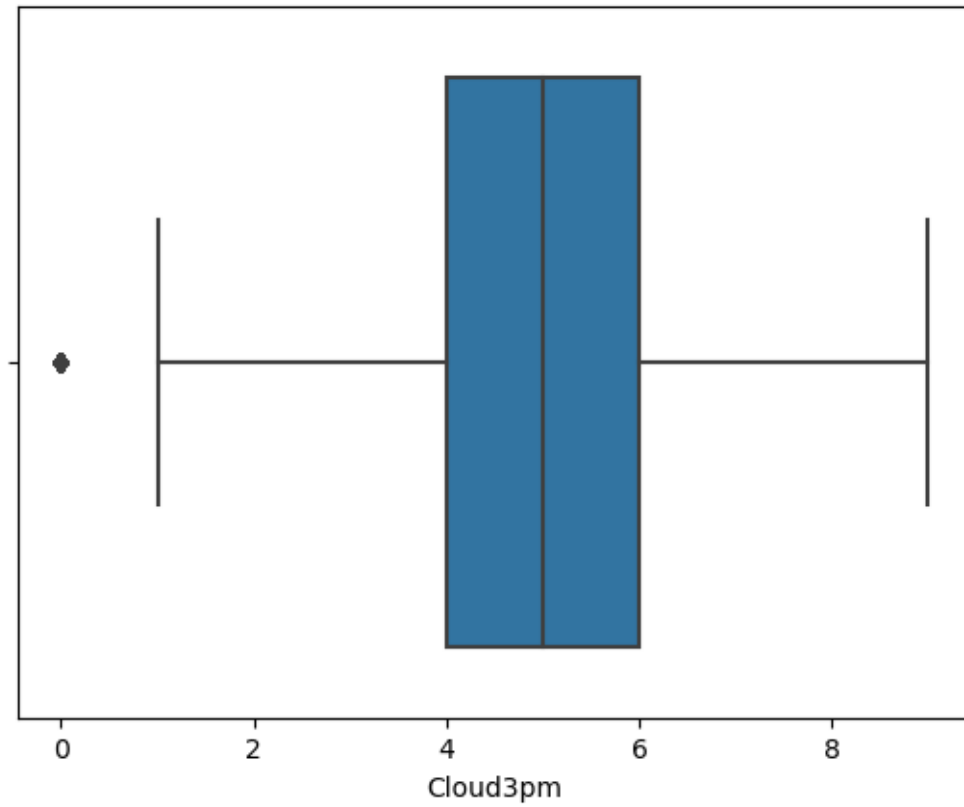
```
[ ]: sns.countplot(x=new_train['RainToday'])
```

```
[ ]: <Axes: xlabel='RainToday', ylabel='count'>
```
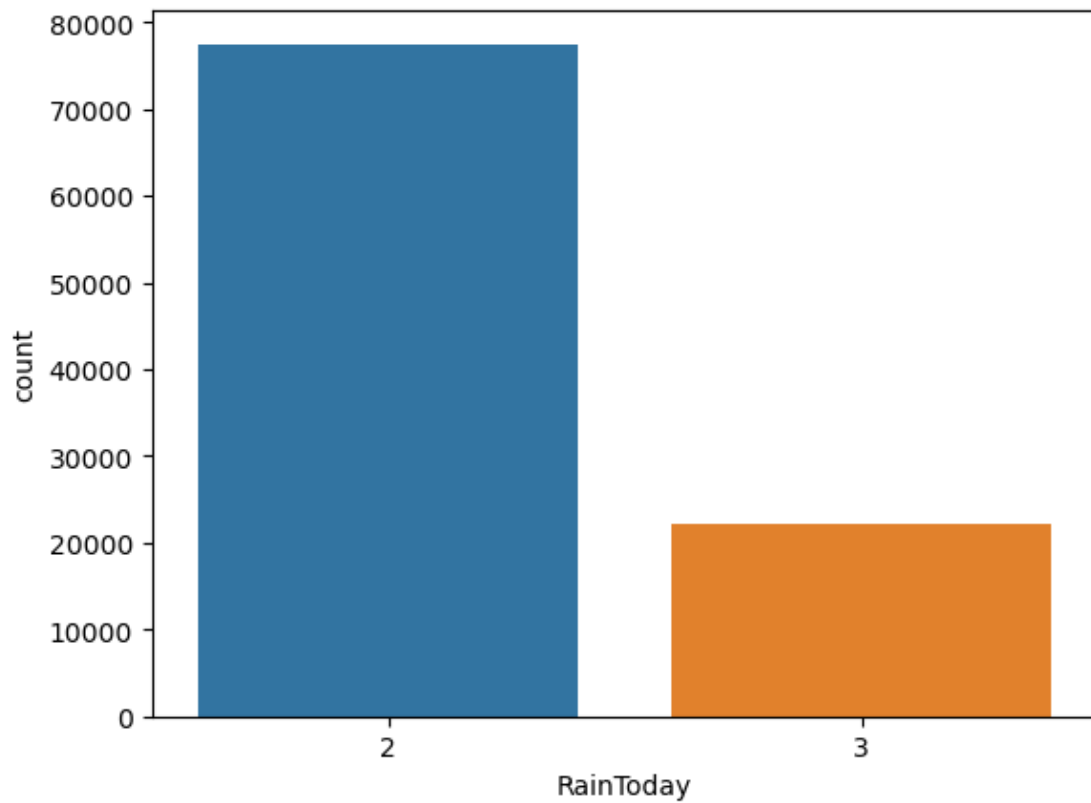
```
new_train['RainTomorrow'].value_counts()
```

```
0    77157
1    22359
Name: RainTomorrow, dtype: int64
```

```
sns.countplot(x=new_train['RainTomorrow'])
```

```
<Axes: xlabel='RainTomorrow', ylabel='count'>
```
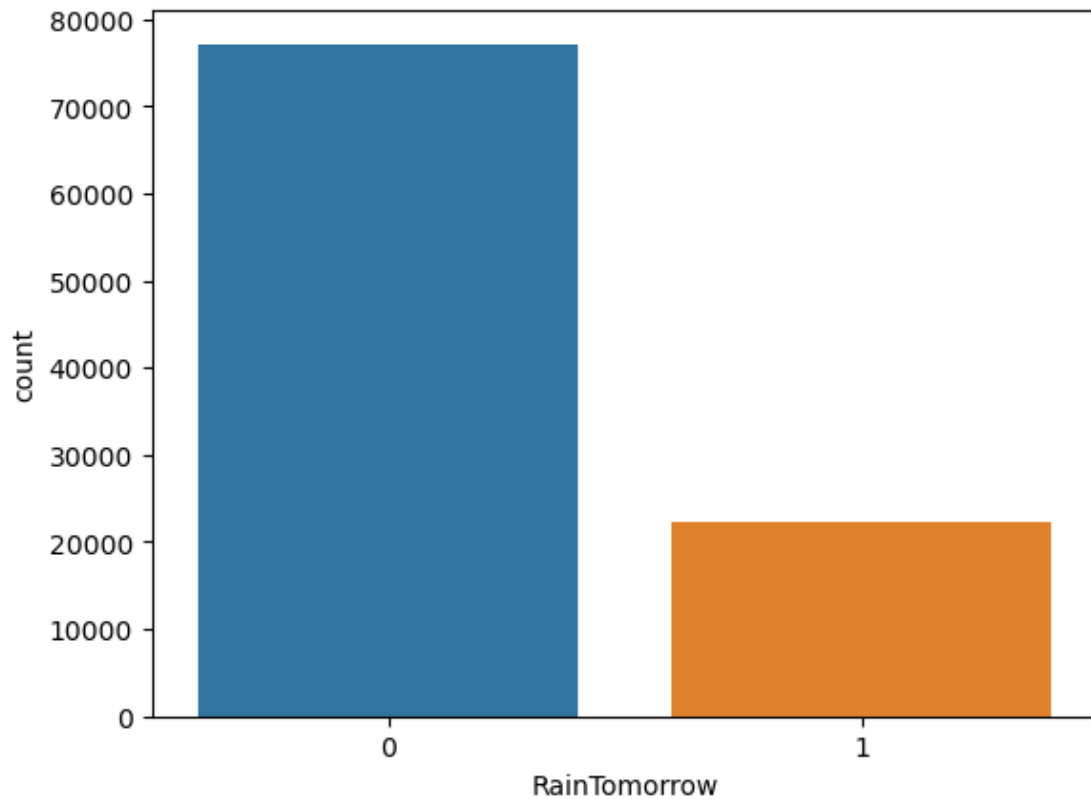
```
df_majority_0 = new_train[(new_train['RainTomorrow']==0)]
df_minority_1 = new_train[(new_train['RainTomorrow']==1)]

df_minority_upsampled = resample(df_minority_1,
                                 replace=True,
                                 n_samples= 77157,
                                 random_state=42)

df_upsampled = pd.concat([df_minority_upsampled, df_majority_0])
```

```
plt.figure(figsize=(17,18))
cor = df_upsampled.corr()
sns.heatmap(cor, annot=True, cmap=plt.cm.Reds,fmt='.2f')
```

```
<Axes: >
```
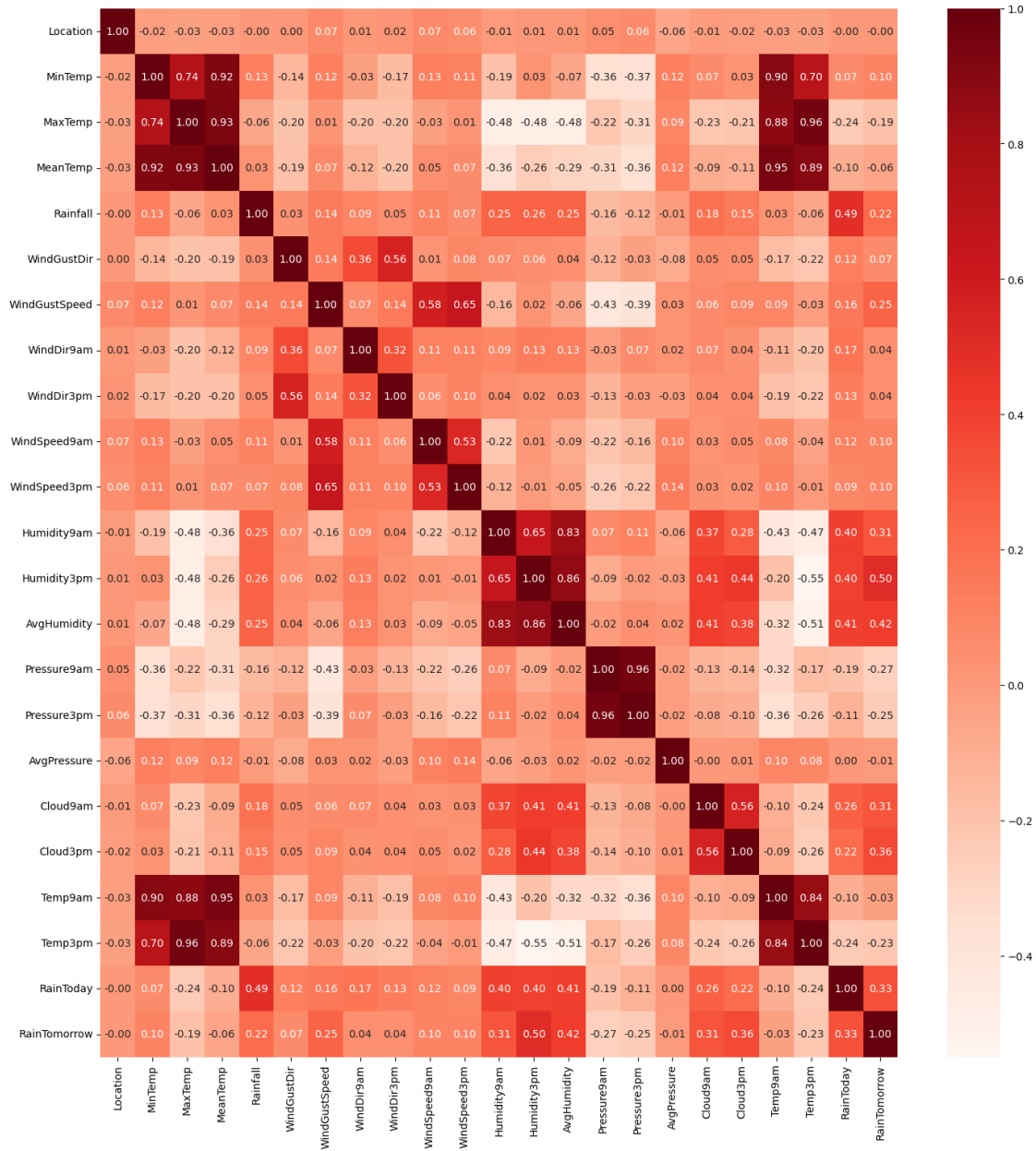
```python
sns.countplot(x=df_upsampled['RainTomorrow'])
```

```
<Axes: xlabel='RainTomorrow', ylabel='count'>
```
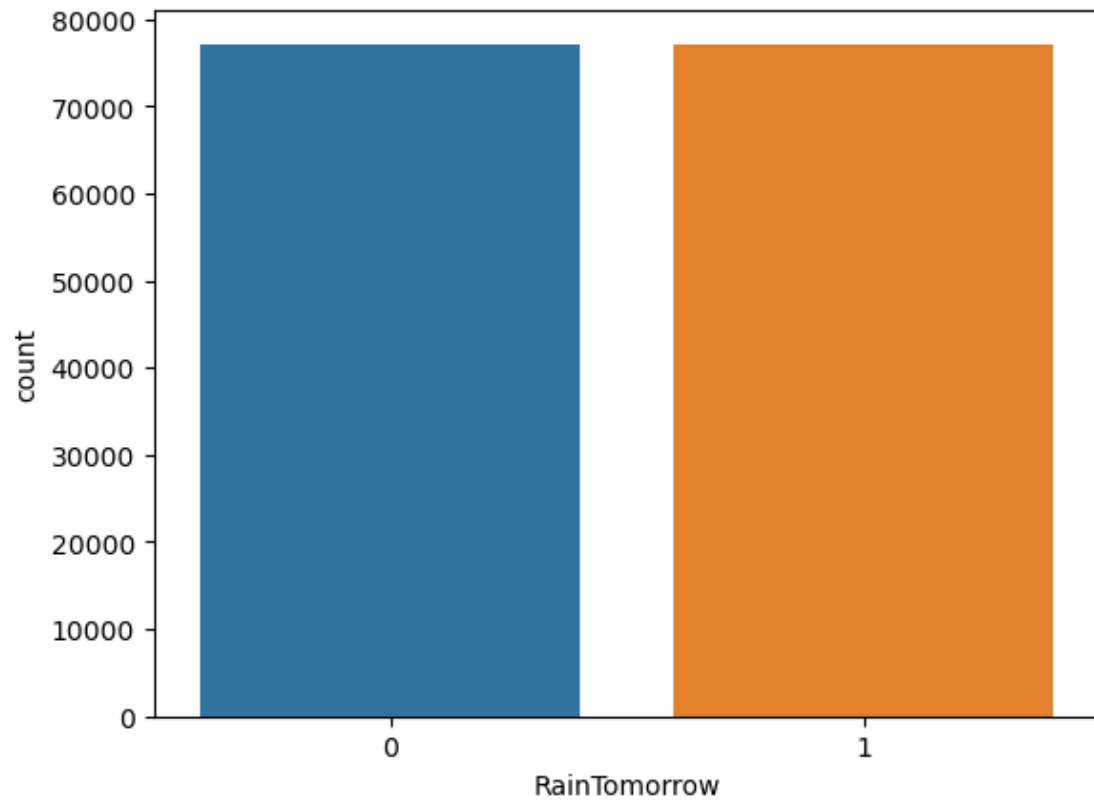
```python
sns.displot(data_test, x="MinTemp", hue='RainToday', kde=True)
plt.title("Minimum Temperature Distribution", fontsize = 14)
plt.show()
```

Minimum Temperature Distribution
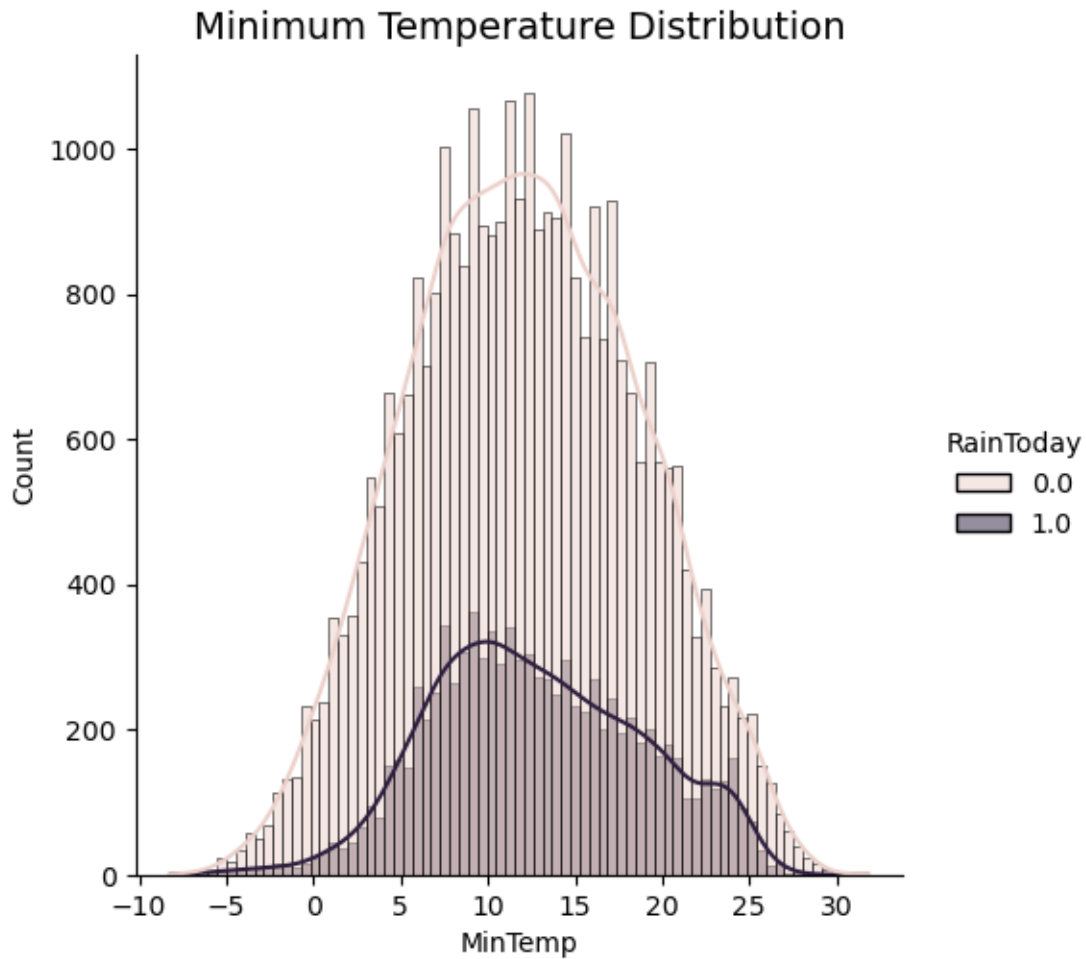
The analysis revealed that the minimum temperature range from -8.5 ℃ to 33.9 ℃ and the minimum temperature of 11 ℃ had the highest frequency in the data set.

```
sns.displot(data_test, x="MaxTemp", hue='RainToday', kde=True)
plt.title("Maximum Temperature Distribution", fontsize = 14)
plt.show()
```

Maximum Temperature Distribution
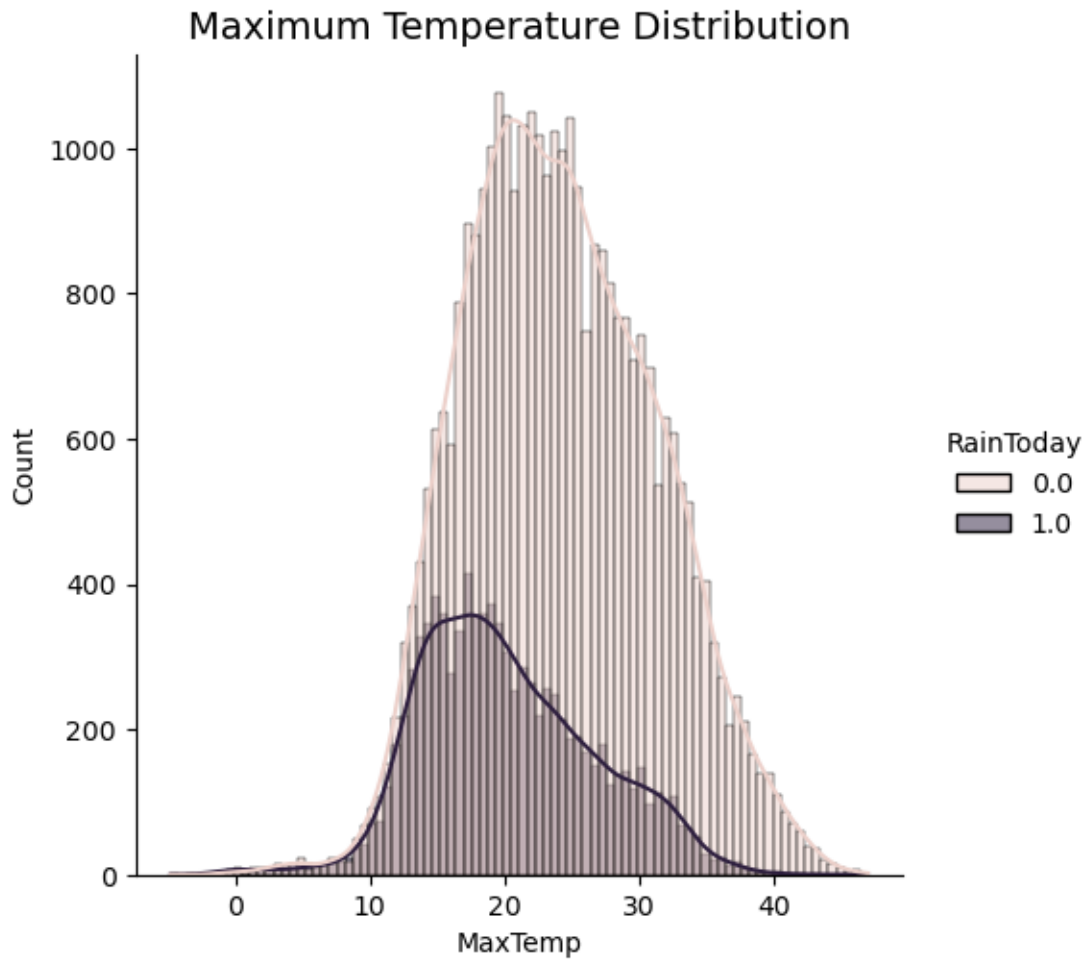
On the other hand, the maximum temperature range from -4.1 ℃ to 48.1 ℃ and the maximum temperature of 20 ℃ has the highest frequency in the data set.

```python
sns.displot(data_test_clean, x="WindGustSpeed", hue='RainToday', kde=True)
plt.title("Wind Gust Distribution", fontsize = 14)
plt.show()
```

Wind Gust Distribution
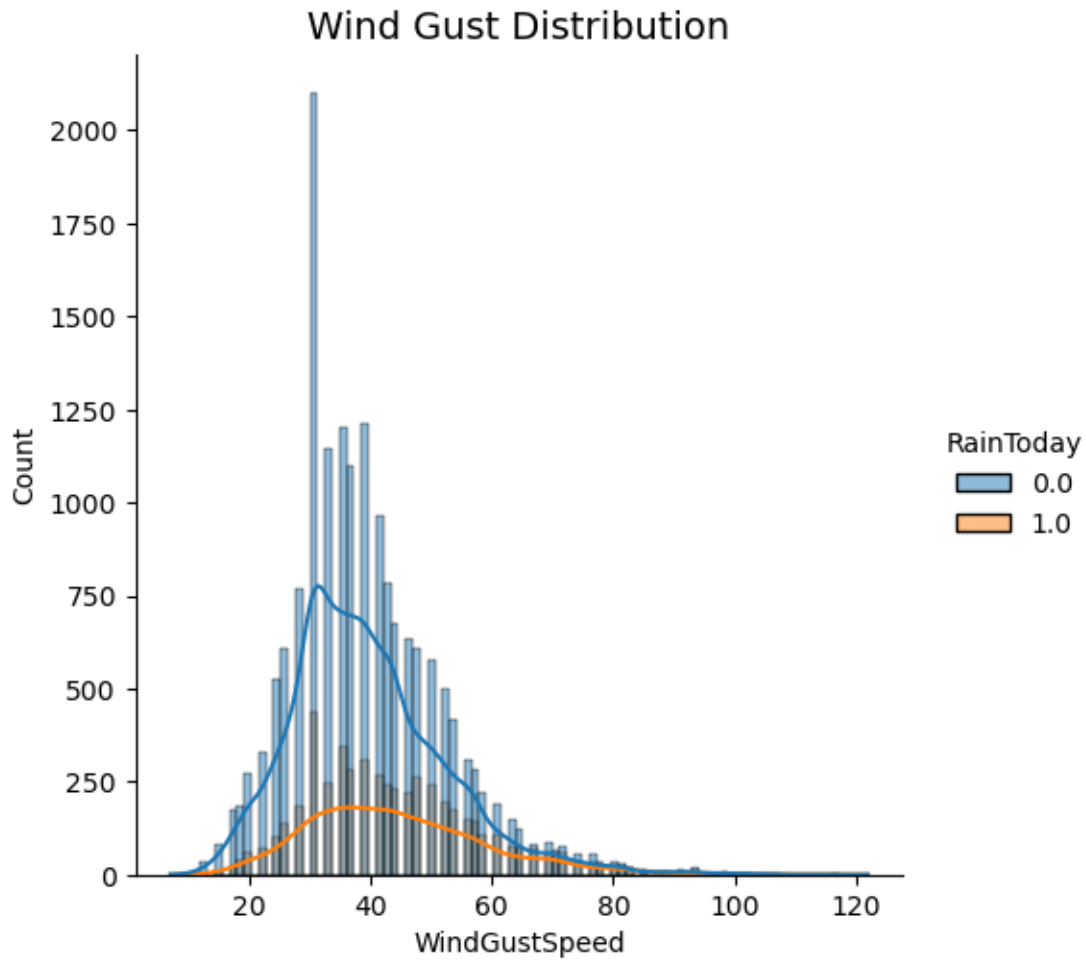
During the analysis, it was found that the range of gusts was from 6 main points to 135 main points and 39.98 main points of gusts had the highest frequency in the data set.

```
sns.displot(data_test_clean, x="Humidity9am", hue='RainToday', kde=True)
plt.title("Humidity at 9am Distribution", fontsize = 14)
plt.show()
```

Humidity at 9am Distribution
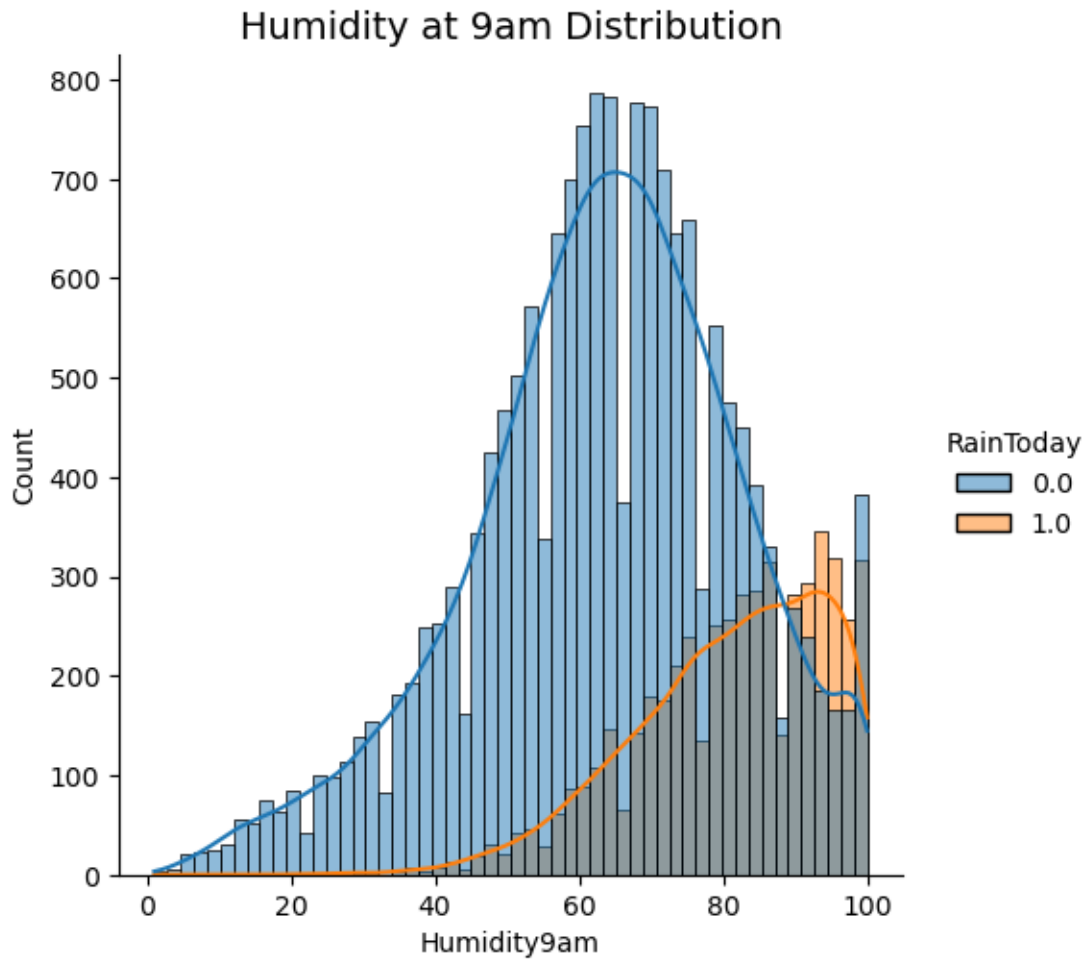
During the analysis, it was found that the range of air humidity at 9 o'clock in the morning. and at 3:00 p.m. from 0% to 100% and 99% humidity at 9:00 am. has the highest frequency in the data set.

```
sns.displot(data_test_clean, x="Humidity3pm", hue='RainToday', kde=True)
plt.title("Humidity at 3pm Distribution", fontsize = 14)
plt.show()
```

Humidity at 3pm Distribution
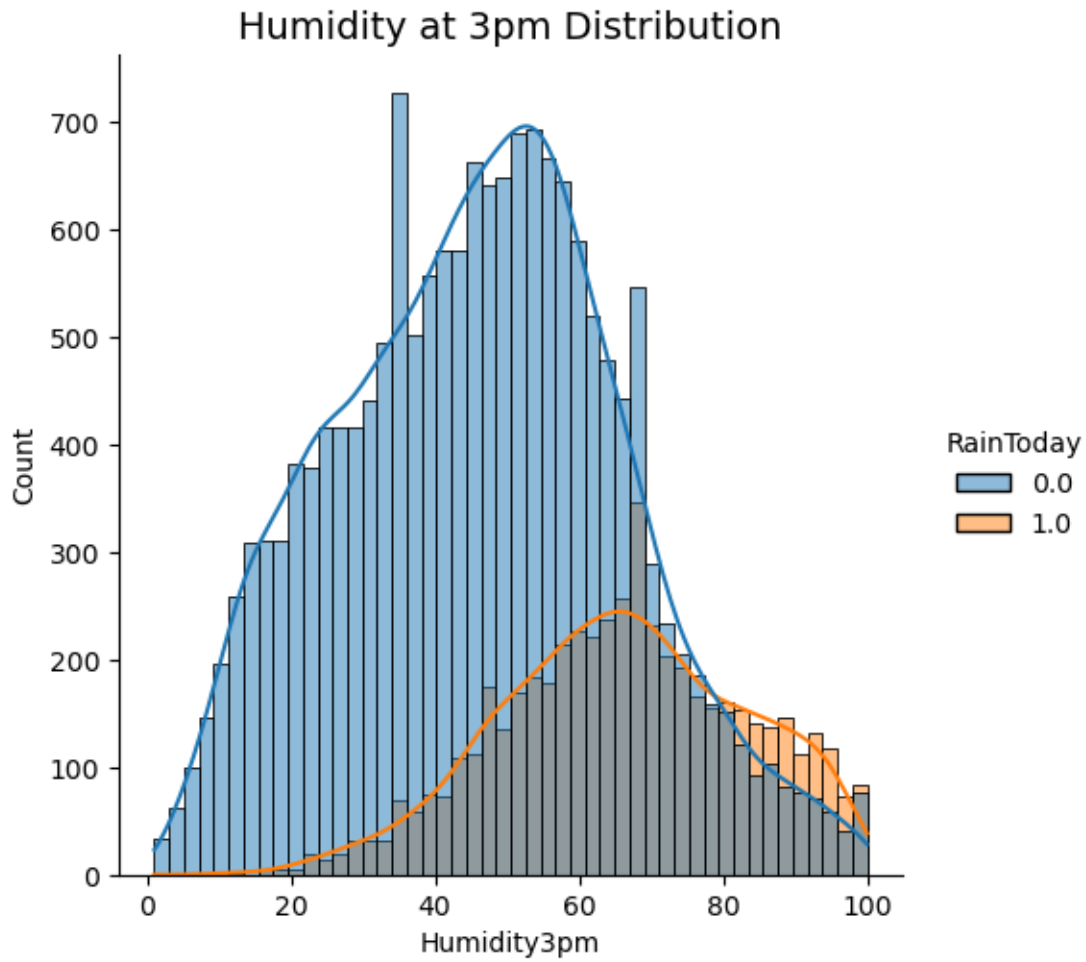
On the other hand, 54.43% of humidity at 3 pm has the highest frequency in the dataset.

```
sns.displot(data_test_clean, x="Pressure9am", hue='RainToday', kde=True)
plt.title("Pressure at 9am Distribution", fontsize = 14)
plt.show()
```

Pressure at 9am Distribution
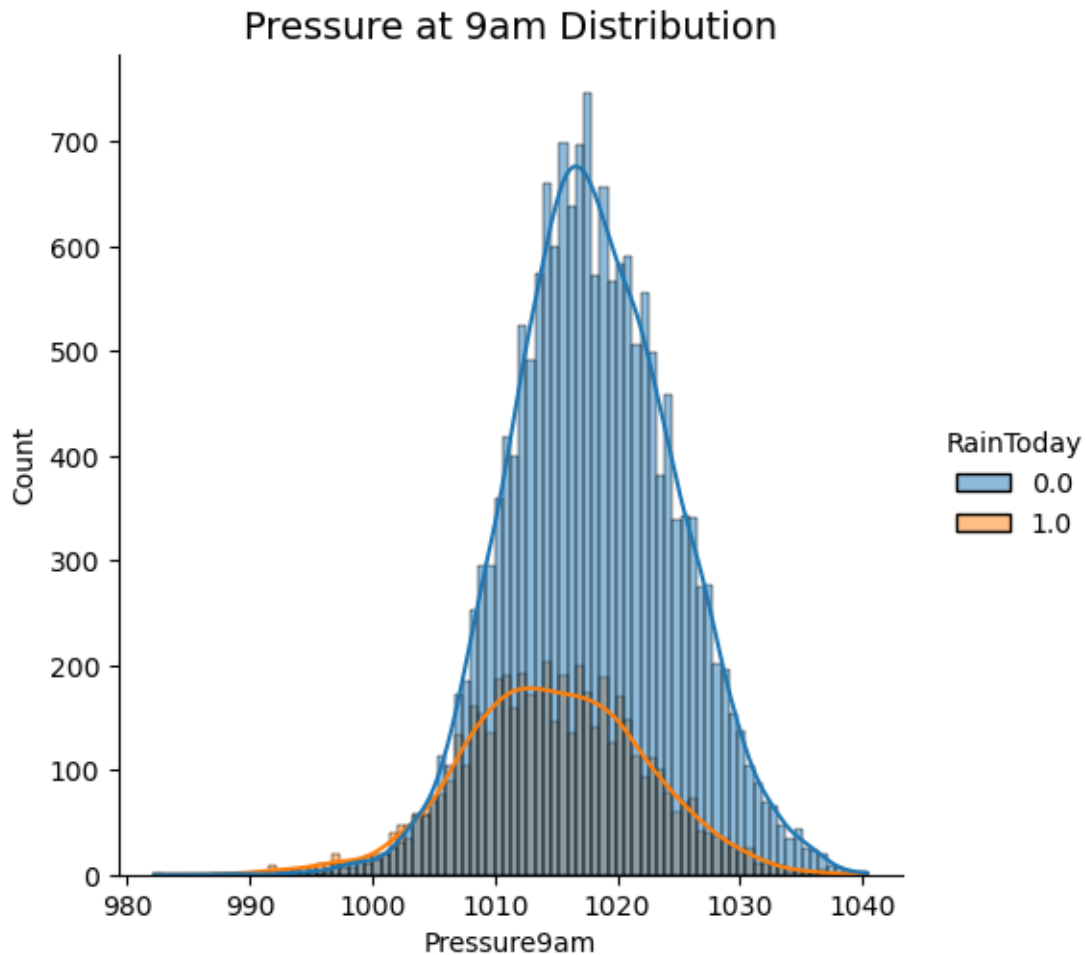
During the analysis, it was found that the range of wind pressure at 9 am. ranges from 980.5 hPa to 1042 hPa, and the pressure of 1017.68 hPa has the highest frequency in the data set.

```
sns.displot(data_test_clean, x="Pressure3pm", hue='RainToday', kde=True)
plt.title("Pressure at 3pm Distribution", fontsize = 14)
plt.show()
```

Pressure at 3pm Distribution
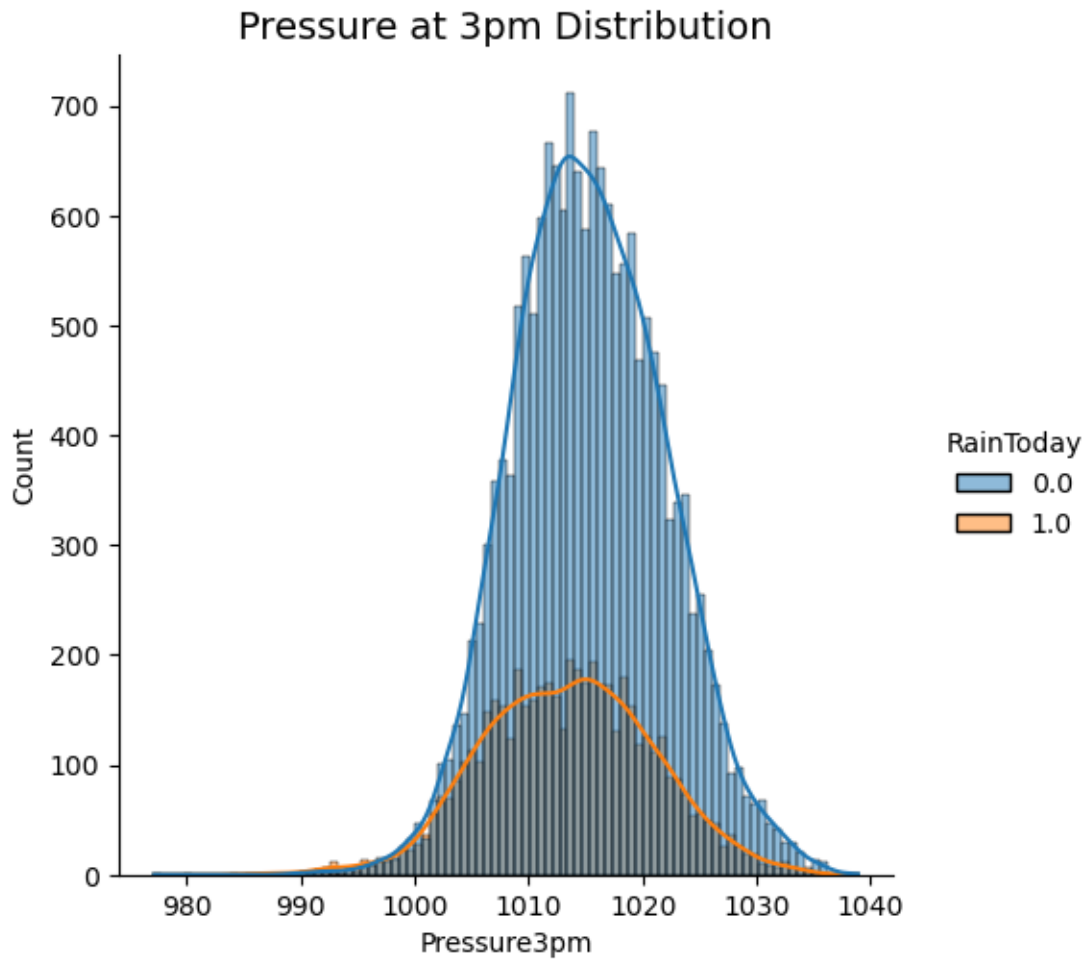
On the opposite hand, the variety of strain at three pm is from 978.2 hPa to 1039.6 hPa and 1015.28 hPa of strain has the very best frequency withinside the dataset.

```
sns.displot(data_test_clean, x="Cloud9am", hue='RainToday', kde=True)
plt.title("Cloud at 9am Distribution", fontsize = 14)
plt.show()
```

Cloud at 9am Distribution
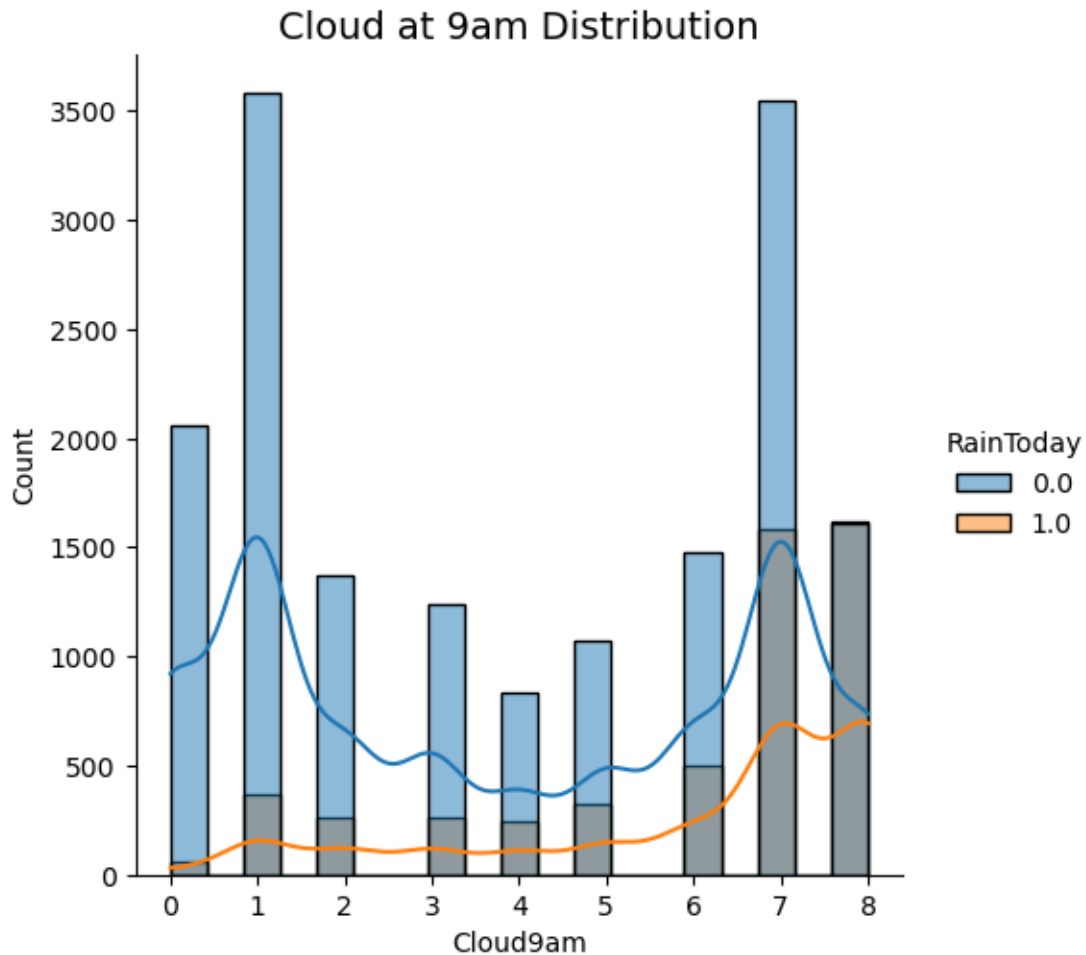
During the analysis, it's been determined that the variety of cloud at 9 am and 3 pm is from zero eighths to nine eighths and 4.44 eighths of cloud at nine am has the best frequency withinside the dataset.

```
sns.displot(data_test_clean, x="Cloud3pm", hue='RainToday', kde=True)
plt.title("Cloud at 3pm Distribution", fontsize = 14)
plt.show()
```

Cloud at 3pm Distribution
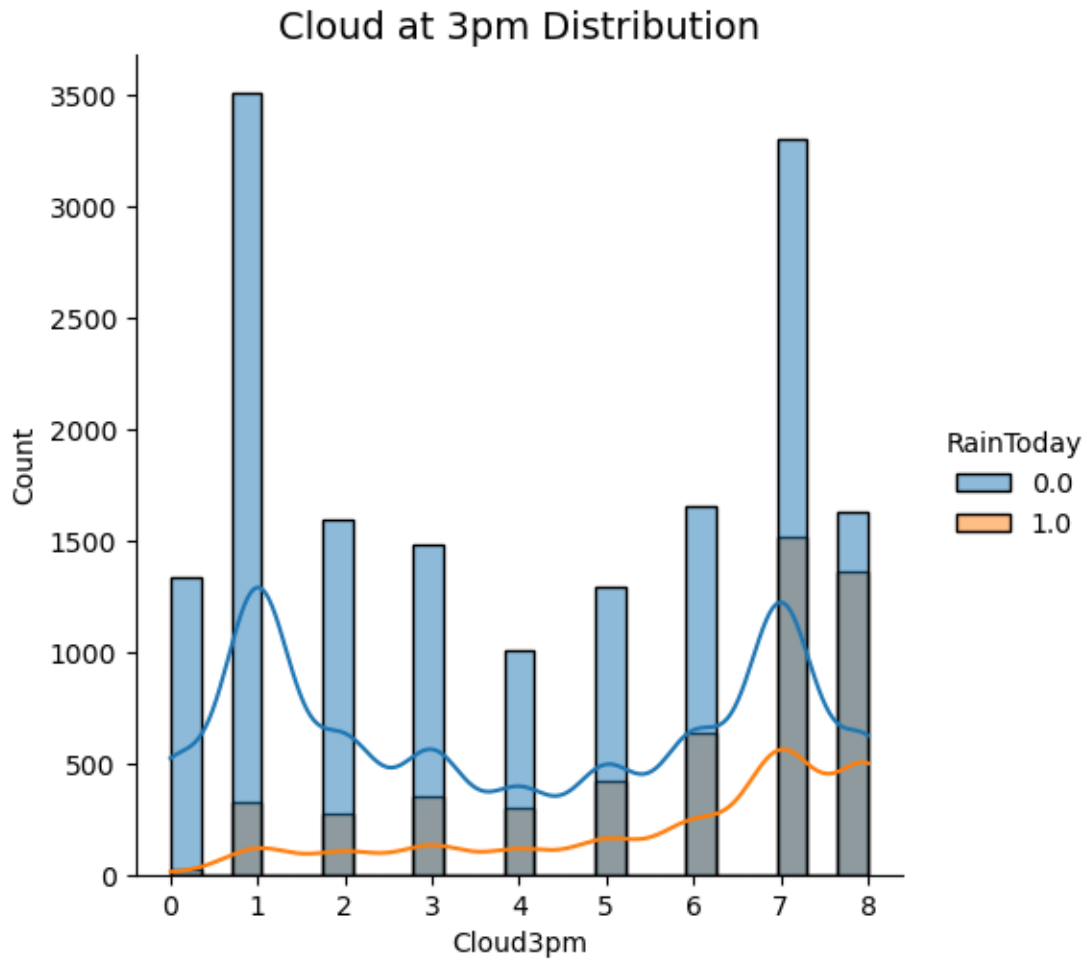
On the other hand, 4.52 eighths of cloud at 3 pm has the highest frequency in the dataset.

```python
sns.displot(data_test_clean, x="Temp9am", hue='RainToday', kde=True)
plt.title("Temperature at 9am Distribution", fontsize = 14)
plt.show()
```

Temperature at 9am Distribution
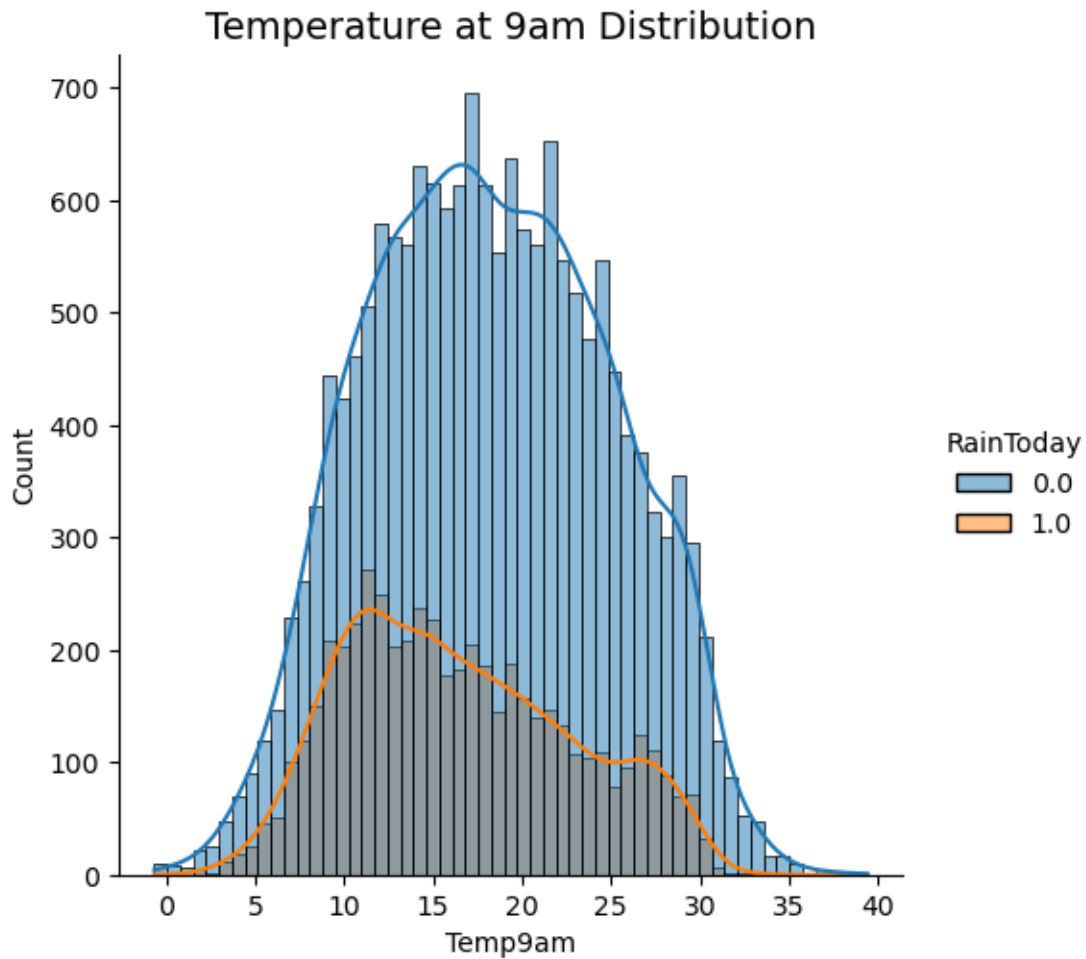
During the analysis, it has been found that the range of wind temperature at 9 am is from -7 ℃ to 40.2 ℃ and 17 ℃ of temperature has the highest frequency in the dataset.

```
sns.displot(data_test_clean, x="Temp3pm", hue='RainToday', kde=True)
plt.title("Temperature at 3pm Distribution", fontsize = 14)
plt.show()
```

Temperature at 3pm Distribution
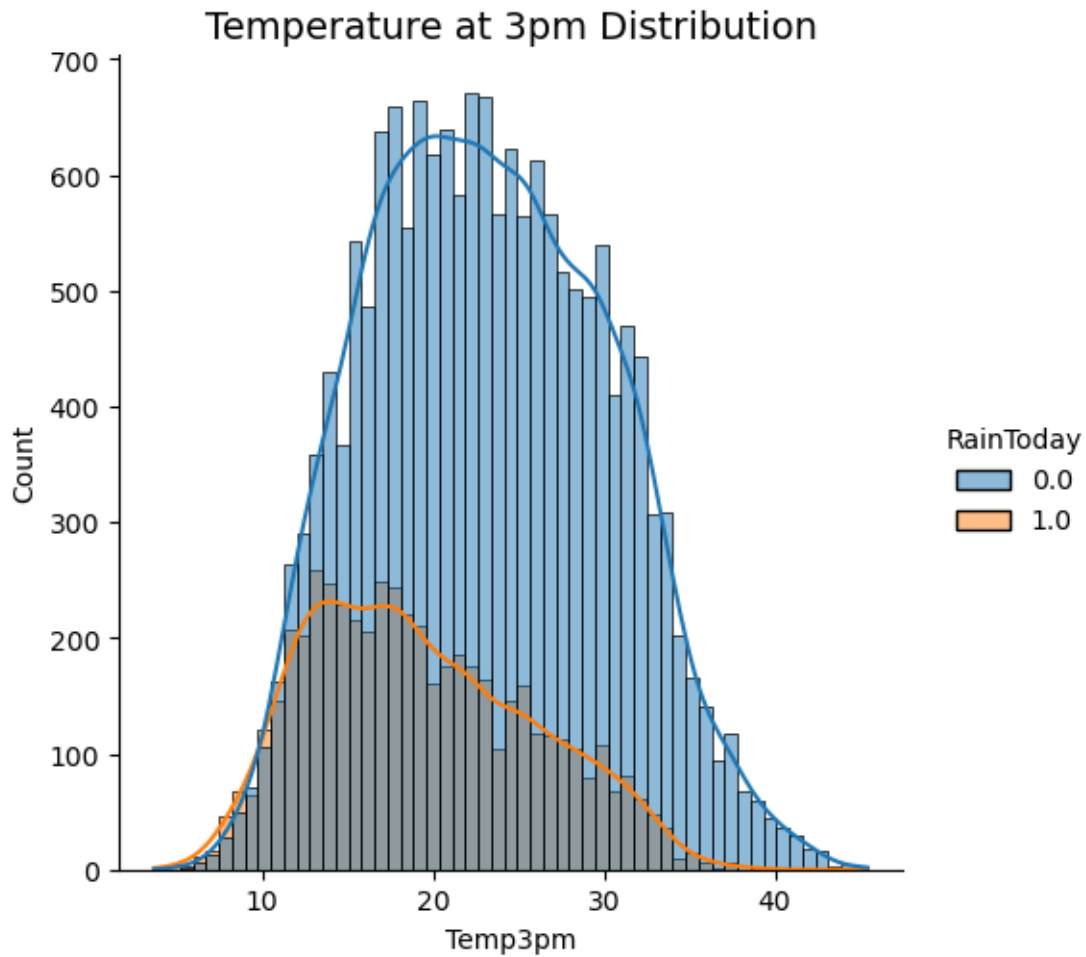
On the other hand, the range of pressure at 3 pm is from -5.1 ℃ to 46.7 ℃ and 27.68 ℃ of temperature has the highest frequency in the dataset.

```
[ ]: df=data_test_clean
     sns.histplot(df['Humidity9am'])
```

```
[ ]: <Axes: xlabel='Humidity9am', ylabel='Count'>
```
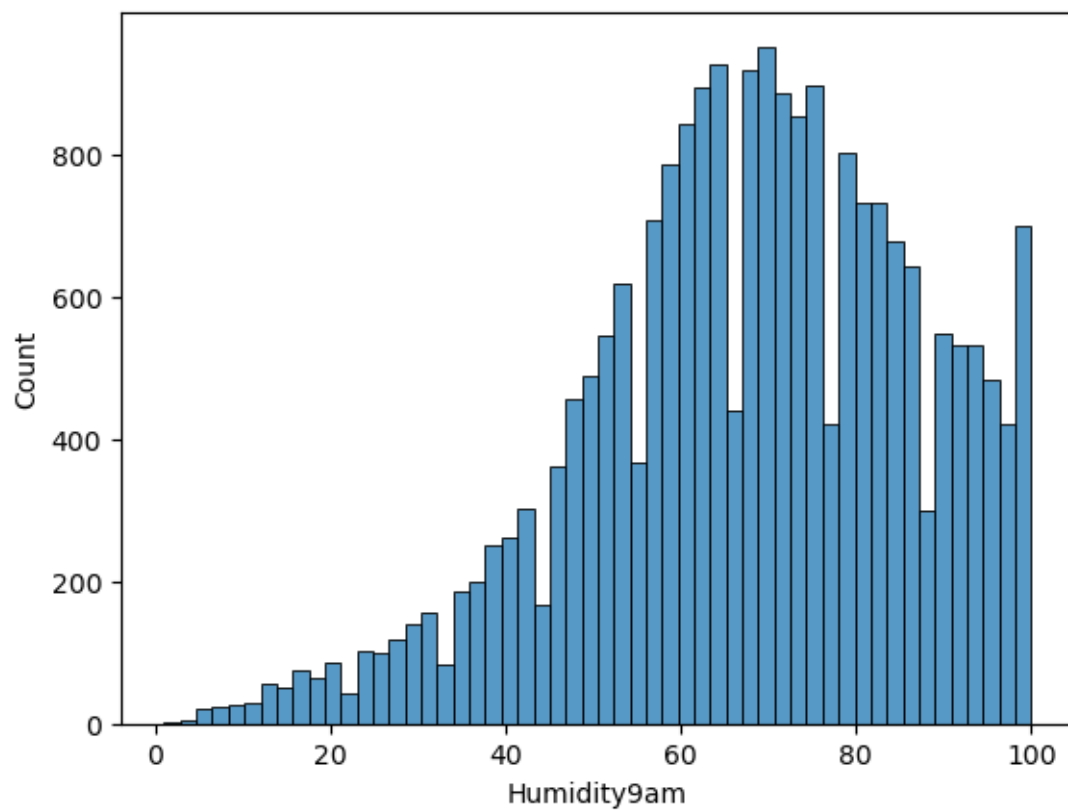
```
[ ]: sns.histplot(df['Humidity3pm'])
```

```
[ ]: <Axes: xlabel='Humidity3pm', ylabel='Count'>
```
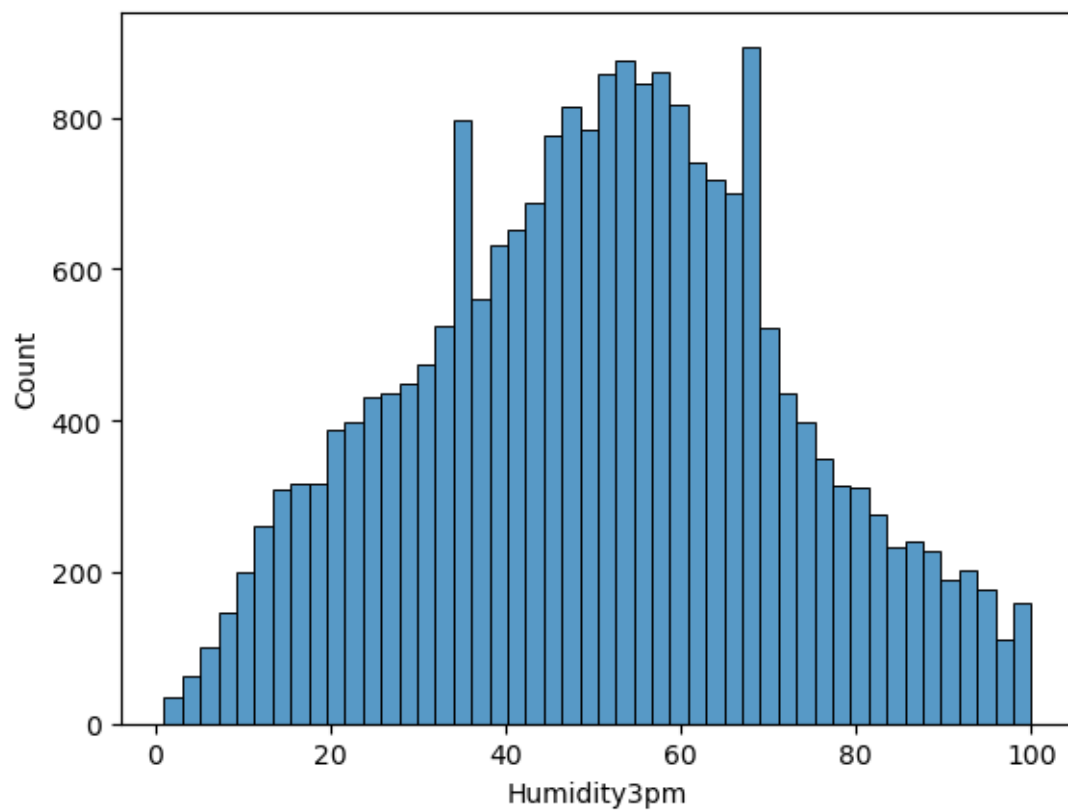
```
[ ]: sns.histplot(df['Cloud9am'])
```

```
[ ]: <Axes: xlabel='Cloud9am', ylabel='Count'>
```
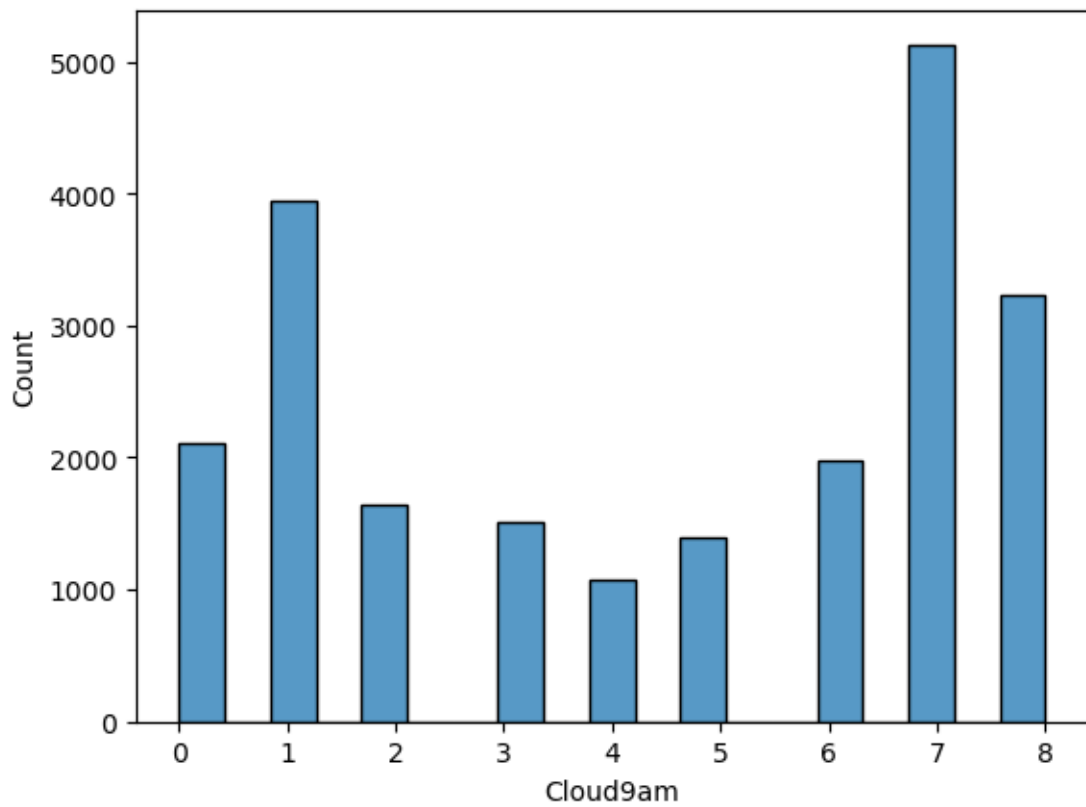
```
[ ]: sns.histplot(df['Cloud3pm'])
```

```
[ ]: <Axes: xlabel='Cloud3pm', ylabel='Count'>
```
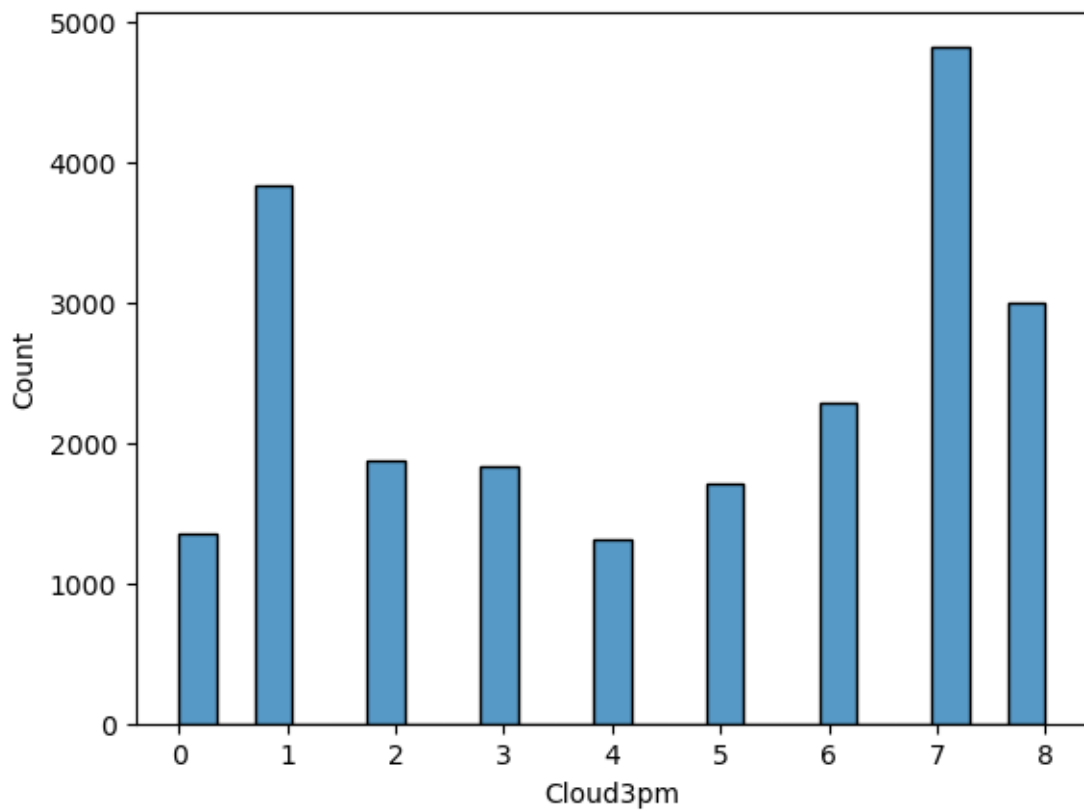
```
sns.histplot(df['RainToday'])
```

<Axes: xlabel='RainToday', ylabel='Count'>
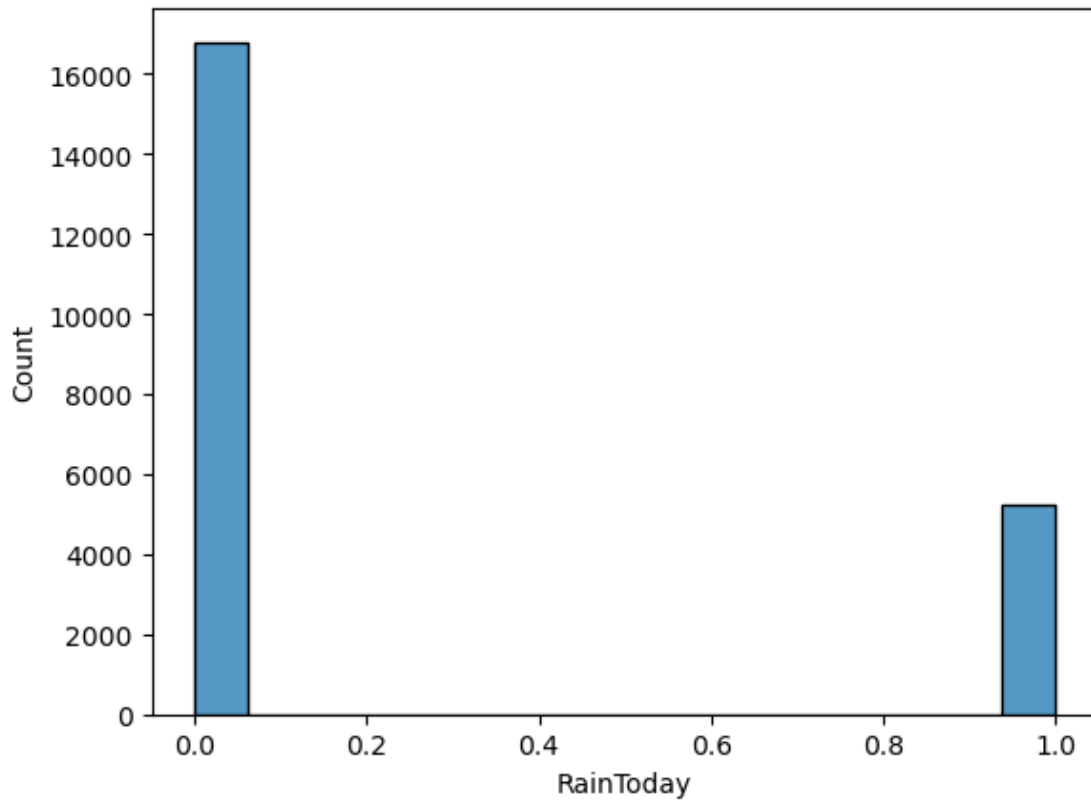
```
[ ]: x = list(data_test_clean.MeanTemp)
     y = list(data_test_clean.Rainfall)

     fig = plt.figure(figsize = (10, 5))

     # creating the bar plot
     plt.bar(x, y, color ='blue',
             width = 0.4)

     plt.xlabel("Average temperature (in degree Celsius)")
     plt.ylabel("Rainfall during a particular day. (millimeters)")
     plt.title("Relation between Average Temperature and Rainfall")
     plt.show()
```

Relation between Average Temperature and Rainfall
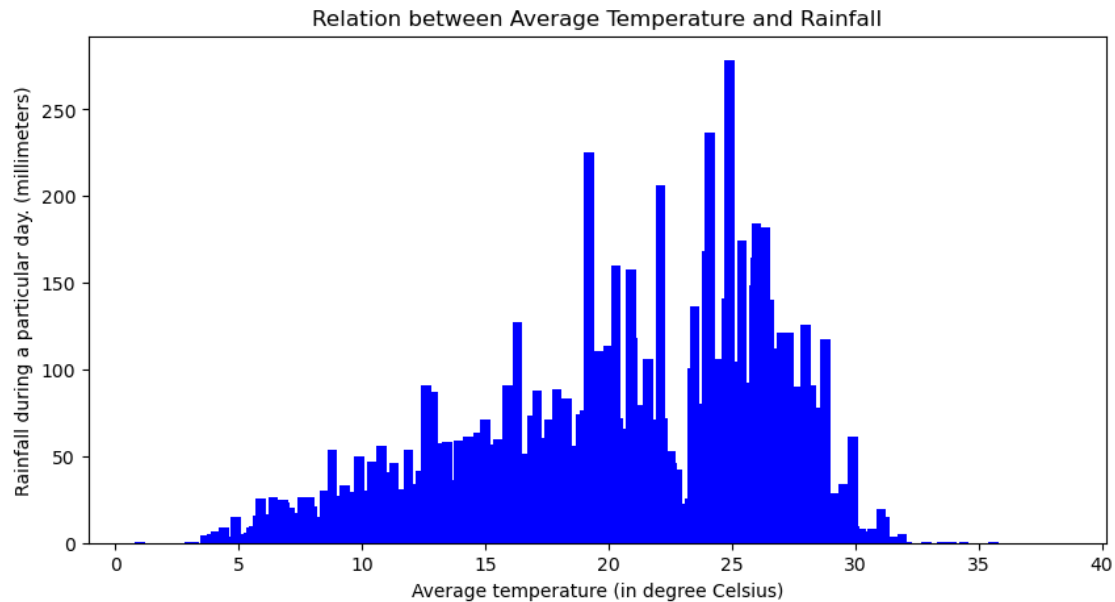
```
import seaborn as sns
import plotly.express as px

figure = px.scatter(data_frame = data_test_clean, x="AvgHumidity",
                    y="MeanTemp", size="AvgHumidity",
                    trendline="ols",
                    labels={
                     "AvgHumidity": "Humidity (in percent)",
                     "MeanTemp": "Mean Temperature (in degree Celsius)"
                },
                    title = "Relationship Between Temperature and Humidity")
figure.show()
```

2.2 2. Average WindSpeed Analysis

```
windspeed_weather_df = data_test_clean.groupby(['Location'])[['WindSpeed9am',↵
  ↪'WindSpeed3pm']].mean()
windspeed_weather_df = windspeed_weather_df.reset_index()
windspeed_weather_df.head()
```

```
         Location  WindSpeed9am  WindSpeed3pm
0          Albury      9.329412     14.917647
1    AliceSprings     14.983226     18.234839
2        Ballarat     20.282051     23.811355
3         Bendigo     12.936709     17.231465
4        Brisbane      6.852476     11.093783
```

```
[ ]: x = windspeed_weather_df.loc[:, 'Location']
     y1 = windspeed_weather_df['WindSpeed9am']
     y2 = windspeed_weather_df['WindSpeed3pm']

     plt.figure(figsize = (15, 8))

     plt.plot(x, y1, marker='D', color = 'darkred', label = 'WindSpeed at 9am')
     plt.plot(x, y2, marker='D', color = 'blue', label = 'WindSpeed at 3pm')

     plt.xlabel('Location', fontsize = 14)
     plt.ylabel('WindSpeed', fontsize = 14)
     plt.title('Location-wise observation of Average WindSpeed', fontsize = 18)
     plt.legend(fontsize = 10, loc = 'best')
     plt.xticks(rotation=80)
     plt.show()
```
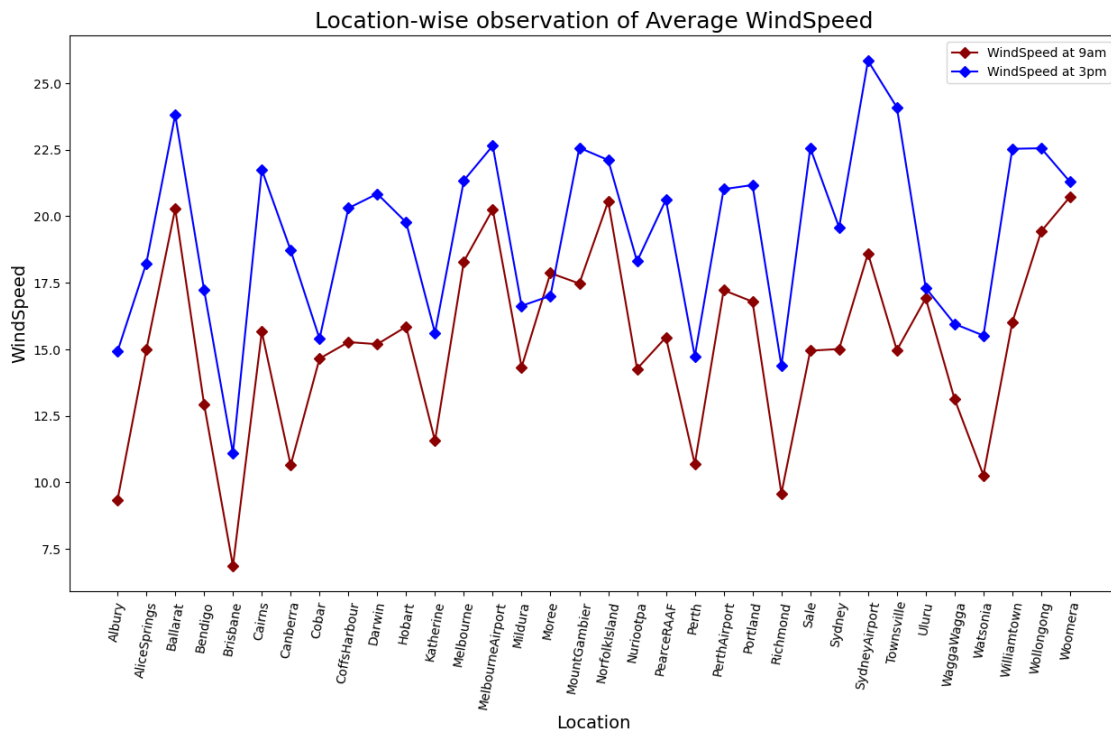

From this analysis, the wind speed at Melbourne Airport was determined to be the highest at 9:00 AM. with a speed of 20.29 km/h. On the other hand, at 3 o'clock in the afternoon. The highest wind speed is on the Gold Coast of Australia with 25.77 km/h. It can be concluded that the wind speed at 15:00. it is much higher than the wind speed at 9 o'clock in the morning.

2.3 3. Average Humidity Analysis

```
[ ]: humidity_weather_df = data_test_clean.groupby(['Location'])[['Humidity9am',␣
     ↪'Humidity3pm']].mean()
     humidity_weather_df = humidity_weather_df.reset_index()
     humidity_weather_df.head()
```

```
[ ]:          Location  Humidity9am  Humidity3pm
     0          Albury     84.035294     64.003922
     1     AliceSprings     39.014194     23.975484
     2        Ballarat     88.426740     69.368132
     3         Bendigo     73.815552     51.305606
     4        Brisbane     64.385669     54.328767
```

```
[ ]: x = humidity_weather_df.loc[:, 'Location']
     y1 = humidity_weather_df['Humidity9am']
     y2 = humidity_weather_df['Humidity3pm']

     plt.figure(figsize = (15, 8))

     plt.bar(x, y1, color = 'gold', label = 'Humidity at 9am')
     plt.bar(x, y2, color = 'blue',label = 'Humidity at 3pm')

     plt.xlabel('Location', fontsize = 14)
     plt.ylabel('Humidity', fontsize = 14)
     plt.title('Location-wise observation of Average Humidity', fontsize = 18)
     plt.legend(fontsize = 10, loc = 'best')
     plt.xticks(rotation=80)
     plt.show()
```

Location-wise observation of Average Humidity
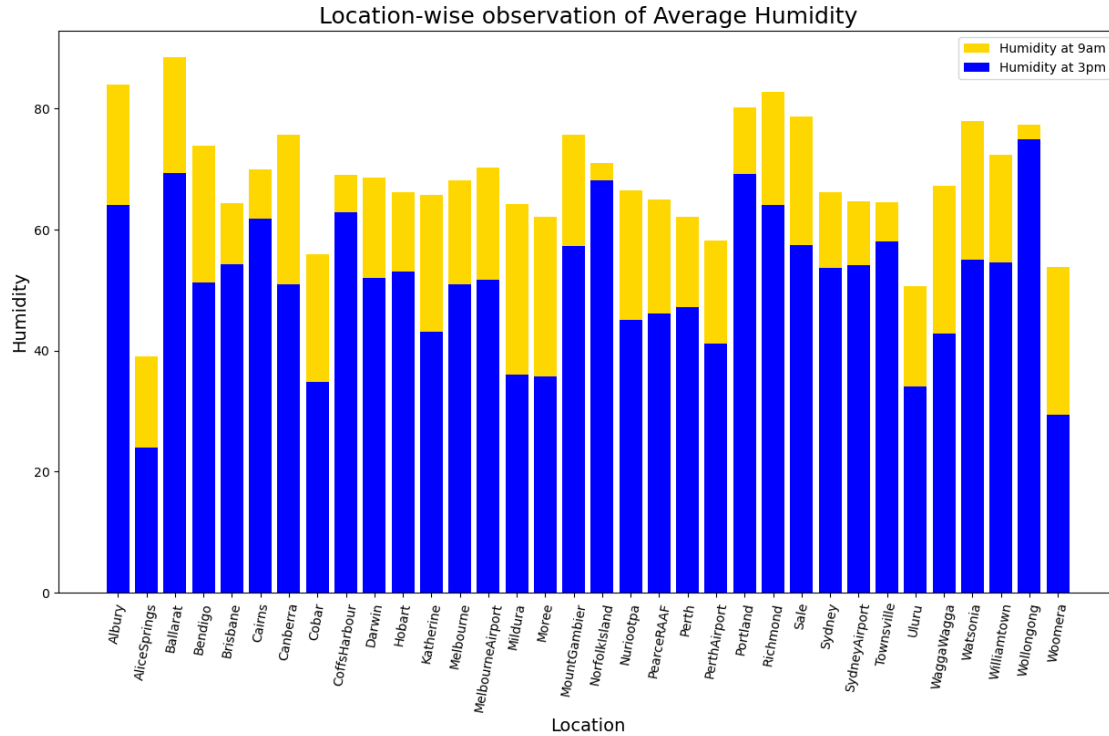
From this analysis it was found that the humidity of Dartmoor was highest at 9 am. 84.38%. On the other hand, at 3:00 p.m., Australia's Mount Ginnie has the highest humidity at 68.24%. In conclusion, it can be concluded that the humidity at 9 o'clock is much higher than the wind speed at 3 o'clock.

2.4 4. Average Pressure Analysis

```
[ ]: pressure_weather_df = data_test_clean.groupby(['Location'])[['Pressure9am',␣
     ↪'Pressure3pm']].mean()
     pressure_weather_df = pressure_weather_df.reset_index()
     pressure_weather_df.head()
```

```
[ ]:        Location  Pressure9am  Pressure3pm
     0         Albury  1016.599216  1014.494118
     1   AliceSprings  1016.876000  1013.058194
     2       Ballarat  1016.019597  1014.966484
     3        Bendigo  1017.266727  1015.336347
     4       Brisbane  1018.162065  1015.057534
```

```
[ ]: x = pressure_weather_df.loc[:, 'Location']
     y1 = pressure_weather_df['Pressure9am']
     y2 = pressure_weather_df['Pressure3pm']

     plt.figure(figsize = (15, 8))
```

45

```
plt.plot(x, y1, marker='o', color = 'cyan', label = 'Pressure at 9am')
plt.plot(x, y2, marker='o', color = 'darkcyan', label = 'Pressure at 3pm')

plt.xlabel('Location', fontsize = 14)
plt.ylabel('Pressure', fontsize = 14)
plt.title('Location-wise observation of Average Pressure', fontsize = 18)
plt.legend(fontsize = 10, loc = 'best')
plt.xticks(rotation=80)
plt.show()
```
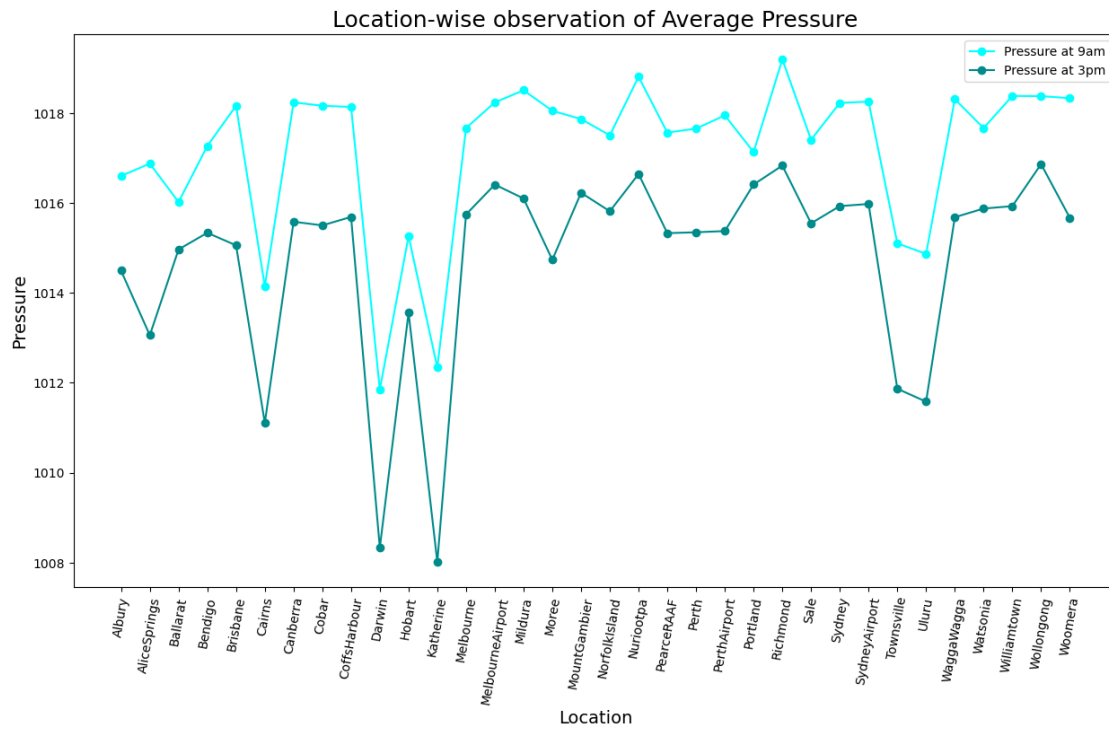

During this analysis, it was found that the pressure in Canberra is the highest at 9 o'clock in the morning. at 1018.93 hPa. On the other hand, Adelaide, Australia has the highest pressure at 15:00 at 1016.79 hPa. In short, it can be concluded that the pressure at 9 o'clock is much higher than the wind speed at 3 o'clock.

2.5 5. Average Temperature Analysis

```
[ ]: location_weather_df = data_test_clean.groupby(['Location'])[['MinTemp',
     ↪'MaxTemp', 'Temp9am', 'Temp3pm']].mean()
     location_weather_df = location_weather_df.reset_index()
     location_weather_df.head()
```

```
[ ]:        Location     MinTemp     MaxTemp     Temp9am     Temp3pm
      0        Albury    9.367451   18.802353   12.731373   17.346275
      1  AliceSprings   13.075097   29.101032   21.285032   27.846710
      2       Ballarat    7.053846   15.498535   10.174542   13.897619
      3        Bendigo    8.526944   20.297830   13.260217   18.893852
      4       Brisbane   16.482403   26.497998   21.874605   24.773235
```

```python
[ ]: x = location_weather_df.loc[:, 'Location']
     y1 = location_weather_df['MinTemp']
     y2 = location_weather_df['MaxTemp']
     y3 = location_weather_df['Temp9am']
     y4 = location_weather_df['Temp3pm']

     plt.figure(figsize = (15, 8))

     plt.plot(x, y1, label = 'Minimum Temperature', marker='o', alpha = 0.8)
     plt.plot(x, y2, label = 'Maximum Temperature', marker='o', alpha = 0.8)
     plt.plot(x, y3, label = 'Temperature at 9am', marker='o', alpha = 0.8)
     plt.plot(x, y4, label = 'Temperature at 3pm', marker='o', alpha = 0.8)

     plt.xlabel('Location', fontsize = 14)
     plt.ylabel('Temperature', fontsize = 14)
     plt.title('Location-wise observation of Average Temperature', fontsize = 18)
     plt.legend(fontsize = 10, loc = 'best')
     plt.xticks(rotation=80)
     plt.show()
```
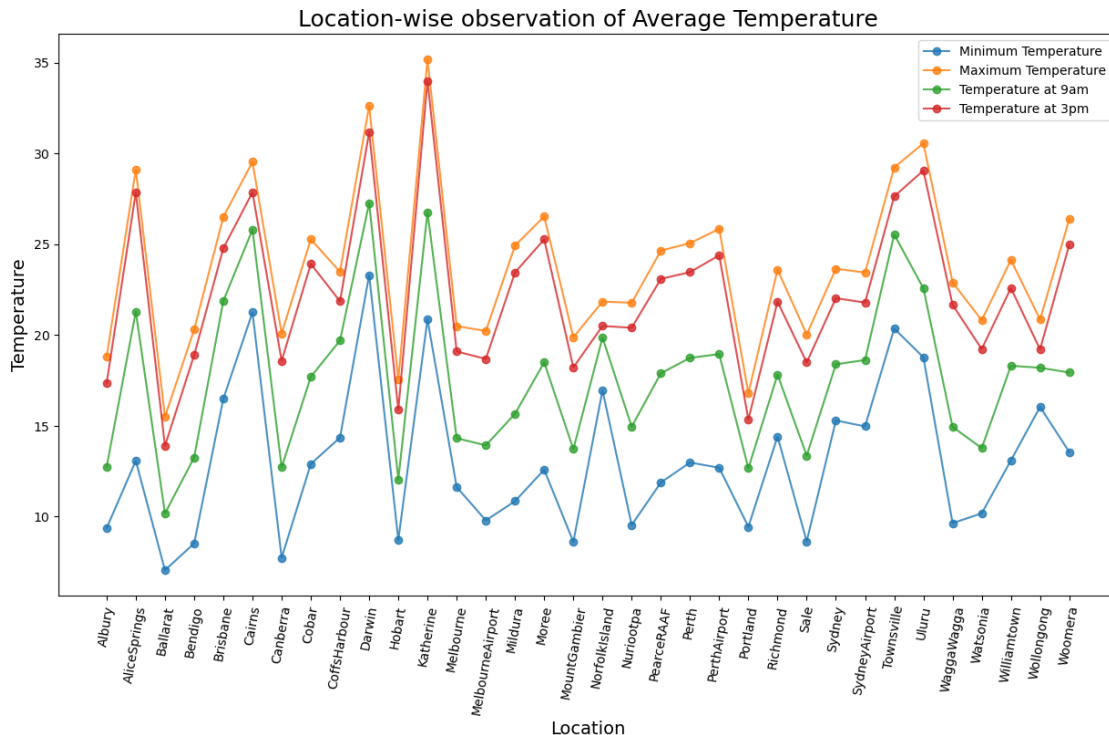
Finding the list of positive integer numbers from the dataset

```python
import pandas as pd
# Select the columns containing the numerical data
numerical_columns = ['MinTemp', 'MaxTemp', 'Rainfall', 'WindGustSpeed',
 'WindSpeed9am', 'WindSpeed3pm',
                      'Humidity9am', 'Humidity3pm', 'Pressure9am',
 'Pressure3pm', 'Cloud9am', 'Cloud3pm',
                      'Temp9am', 'Temp3pm']

# Create an empty list to store the positive integer numbers
positive_integers = []

# Iterate over each column
for column in numerical_columns:
    # Filter out positive integers from the column
    positive_values = data_test_clean[column][(data_test_clean[column] > 0) &
 (data_test_clean[column] % 1 == 0)]
    # Append the positive integers to the list
    positive_integers.extend(positive_values.tolist())

# Print the list of positive integer numbers
print("List of positive integer numbers:")
print(positive_integers)
```

```
List of positive integer numbers:
[8.0, 3.0, 5.0, 10.0, 17.0, 5.0, 7.0, 6.0, 6.0, 2.0, 8.0, 5.0, 17.0, 19.0, 15.0,
26.0, 1.0, 8.0, 16.0, 9.0, 6.0, 16.0, 20.0, 23.0, 21.0, 10.0, 12.0, 21.0, 27.0,
22.0, 18.0, 9.0, 8.0, 10.0, 4.0, 1.0, 9.0, 12.0, 9.0, 15.0, 11.0, 12.0, 22.0,
26.0, 18.0, 24.0, 24.0, 13.0, 21.0, 4.0, 7.0, 17.0, 18.0, 12.0, 3.0, 4.0, 4.0,
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24.0, 18.0, 14.0, 21.0, 24.0, 14.0, 3.0, 4.0, 6.0, 17.0, 14.0, 4.0, 7.0, 12.0,
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8.0, 19.0, 11.0, 16.0, 23.0, 19.0, 21.0, 14.0, 12.0, 2.0, 5.0, 20.0, 17.0, 14.0,
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12.0, 14.0, 13.0, 16.0, 16.0, 17.0, 21.0, 22.0, 21.0, 16.0, 22.0, 19.0, 13.0,
```

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1.0, 6.0, 6.0, 2.0, 2.0, 4.0, 43.0, 225.0, 3.0, 3.0, 7.0, 2.0, 4.0, 11.0, 15.0,
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3.0, 1.0, 1.0, 61.0, 8.0, 2.0, 53.0, 7.0, 2.0, 38.0, 1.0, 1.0, 118.0, 30.0,
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54.0, 68.0, 7.0, 4.0, 5.0, 5.0, 2.0, 1.0, 2.0, 2.0, 2.0, 3.0, 3.0, 98.0, 1.0,
35.0, 2.0, 2.0, 1.0, 5.0, 29.0, 6.0, 2.0, 6.0, 3.0, 20.0, 1.0, 2.0, 48.0, 27.0,
1.0, 2.0, 3.0, 96.0, 1.0, 7.0, 109.0, 10.0, 1.0, 1.0, 18.0, 21.0, 7.0, 4.0, 2.0,
1.0, 1.0, 2.0, 40.0, 6.0, 1.0, 2.0, 2.0, 1.0, 12.0, 4.0, 4.0, 18.0, 1.0, 7.0,
4.0, 9.0, 115.0, 126.0, 2.0, 21.0, 158.0, 10.0, 1.0, 16.0, 1.0, 5.0, 19.0, 29.0,
2.0, 7.0, 67.0, 40.0, 1.0, 3.0, 4.0, 2.0, 10.0, 112.0, 9.0, 3.0, 2.0, 7.0, 4.0,
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65.0, 96.0, 96.0, 74.0, 60.0, 81.0, 73.0, 60.0, 51.0, 53.0, 63.0, 93.0, 91.0,
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65.0, 71.0, 72.0, 73.0, 70.0, 67.0, 70.0, 64.0, 81.0, 89.0, 80.0, 67.0, 81.0,
63.0, 74.0, 91.0, 97.0, 70.0, 73.0, 65.0, 61.0, 58.0, 52.0, 87.0, 97.0, 96.0,
66.0, 59.0, 52.0, 59.0, 67.0, 67.0, 64.0, 68.0, 67.0, 64.0, 67.0, 69.0, 71.0,
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27.0, 36.0, 48.0, 68.0, 67.0, 12.0, 64.0, 63.0, 46.0, 43.0, 38.0, 52.0, 60.0,
63.0, 32.0, 63.0, 36.0, 75.0, 72.0, 64.0, 63.0, 62.0, 87.0, 64.0, 73.0, 75.0,
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65.0, 67.0, 93.0, 67.0, 53.0, 62.0, 60.0, 60.0, 61.0, 80.0, 65.0, 60.0, 79.0,
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86.0, 66.0, 50.0, 54.0, 59.0, 69.0, 68.0, 65.0, 68.0, 65.0, 78.0, 68.0, 68.0,
72.0, 77.0, 58.0, 65.0, 59.0, 68.0, 58.0, 82.0, 82.0, 79.0, 64.0, 60.0, 68.0,
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89.0, 79.0, 71.0, 79.0, 75.0, 65.0, 68.0, 91.0, 88.0, 93.0, 88.0, 89.0, 71.0,
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83.0, 66.0, 77.0, 84.0, 74.0, 89.0, 95.0, 67.0, 71.0, 77.0, 80.0, 53.0, 61.0,
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65.0, 62.0, 56.0, 62.0, 88.0, 72.0, 63.0, 67.0, 62.0, 61.0, 63.0, 73.0, 35.0,
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63.0, 77.0, 69.0, 73.0, 77.0, 83.0, 84.0, 69.0, 77.0, 68.0, 76.0, 70.0, 60.0,
76.0, 50.0, 67.0, 67.0, 64.0, 67.0, 70.0, 85.0, 81.0, 72.0, 75.0, 60.0, 56.0,
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55.0, 74.0, 86.0, 58.0, 55.0, 74.0, 88.0, 28.0, 67.0, 32.0, 51.0, 55.0, 41.0,
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61.0, 87.0, 66.0, 52.0, 55.0, 31.0, 33.0, 65.0, 50.0, 45.0, 58.0, 68.0, 61.0,
42.0, 43.0, 74.0, 18.0, 64.0, 60.0, 53.0, 66.0, 68.0, 45.0, 57.0, 63.0, 56.0,
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62.0, 79.0, 65.0, 51.0, 45.0, 24.0, 20.0, 45.0, 57.0, 89.0, 62.0, 42.0, 69.0,
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29.0, 69.0, 46.0, 52.0, 94.0, 84.0, 88.0, 44.0, 37.0, 61.0, 48.0, 42.0, 68.0,
51.0, 55.0, 54.0, 42.0, 63.0, 63.0, 59.0, 46.0, 60.0, 60.0, 57.0, 47.0, 63.0,
65.0, 26.0, 60.0, 77.0, 52.0, 48.0, 61.0, 53.0, 80.0, 69.0, 65.0, 70.0, 17.0,
13.0, 56.0, 58.0, 55.0, 34.0, 59.0, 64.0, 63.0, 13.0, 56.0, 59.0, 59.0, 77.0,
38.0, 52.0, 51.0, 84.0, 89.0, 87.0, 43.0, 54.0, 39.0, 45.0, 56.0, 53.0, 60.0,
60.0, 53.0, 47.0, 53.0, 57.0, 66.0, 60.0, 66.0, 81.0, 51.0, 62.0, 84.0, 58.0,
54.0, 62.0, 77.0, 68.0, 66.0, 27.0, 54.0, 35.0, 35.0, 41.0, 59.0, 26.0, 34.0,
66.0, 21.0, 48.0, 29.0, 74.0, 40.0, 34.0, 34.0, 43.0, 42.0, 80.0, 64.0, 26.0,
27.0, 73.0, 58.0, 39.0, 31.0, 32.0, 54.0, 89.0, 64.0, 52.0, 31.0, 54.0, 35.0,
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44.0, 45.0, 16.0, 50.0, 32.0, 57.0, 37.0, 37.0, 47.0, 69.0, 33.0, 34.0, 57.0,
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65.0, 97.0, 30.0, 63.0, 46.0, 67.0, 59.0, 62.0, 55.0, 50.0, 47.0, 33.0, 50.0,
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75.0, 59.0, 82.0, 55.0, 44.0, 45.0, 47.0, 47.0, 94.0, 45.0, 40.0, 49.0, 46.0,
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73.0, 57.0, 73.0, 71.0, 57.0, 76.0, 68.0, 68.0, 35.0, 61.0, 44.0, 45.0, 62.0,
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51.0, 77.0, 88.0, 63.0, 48.0, 54.0, 23.0, 41.0, 58.0, 48.0, 33.0, 38.0, 17.0,
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37.0, 52.0, 38.0, 81.0, 47.0, 61.0, 63.0, 57.0, 53.0, 69.0, 46.0, 74.0, 71.0,
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70.0, 73.0, 48.0, 74.0, 52.0, 52.0, 53.0, 78.0, 66.0, 45.0, 56.0, 60.0, 49.0,
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82.0, 34.0, 34.0, 69.0, 86.0, 57.0, 47.0, 45.0, 34.0, 92.0, 65.0, 37.0, 55.0,
70.0, 55.0, 51.0, 96.0, 72.0, 83.0, 58.0, 78.0, 62.0, 57.0, 68.0, 94.0, 85.0,
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70.0, 52.0, 71.0, 48.0, 59.0, 54.0, 39.0, 49.0, 48.0, 36.0, 96.0, 84.0, 52.0,
41.0, 44.0, 48.0, 69.0, 41.0, 50.0, 44.0, 23.0, 41.0, 97.0, 86.0, 49.0, 46.0,
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77.0, 24.0, 39.0, 58.0, 24.0, 68.0, 67.0, 49.0, 50.0, 63.0, 82.0, 39.0, 40.0,
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72.0, 60.0, 56.0, 100.0, 70.0, 70.0, 75.0, 42.0, 58.0, 98.0, 52.0, 60.0, 61.0,
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41.0, 55.0, 90.0, 35.0, 43.0, 52.0, 53.0, 93.0, 95.0, 57.0, 39.0, 46.0, 48.0,
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48.0, 74.0, 46.0, 53.0, 47.0, 53.0, 54.0, 57.0, 51.0, 87.0, 92.0, 97.0, 97.0,
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52.0, 27.0, 38.0, 59.0, 57.0, 68.0, 57.0, 69.0, 55.0, 33.0, 60.0, 45.0, 85.0,
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39.0, 53.0, 60.0, 64.0, 53.0, 47.0, 56.0, 60.0, 62.0, 72.0, 55.0, 56.0, 74.0,
52.0, 36.0, 65.0, 56.0, 52.0, 54.0, 57.0, 54.0, 57.0, 47.0, 48.0, 62.0, 54.0,
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53.0, 38.0, 45.0, 46.0, 47.0, 36.0, 39.0, 63.0, 30.0, 45.0, 41.0, 27.0, 28.0,
83.0, 23.0, 56.0, 49.0, 57.0, 32.0, 20.0, 46.0, 25.0, 42.0, 33.0, 57.0, 44.0,
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63.0, 59.0, 48.0, 54.0, 57.0, 62.0, 79.0, 57.0, 57.0, 58.0, 40.0, 24.0, 52.0,
52.0, 62.0, 69.0, 64.0, 53.0, 55.0, 75.0, 94.0, 60.0, 52.0, 58.0, 95.0, 59.0,
58.0, 62.0, 44.0, 58.0, 45.0, 89.0, 49.0, 62.0, 89.0, 95.0, 59.0, 60.0, 64.0,
56.0, 58.0, 57.0, 62.0, 57.0, 57.0, 46.0, 50.0, 31.0, 49.0, 56.0, 88.0, 57.0,
67.0, 50.0, 53.0, 46.0, 53.0, 52.0, 62.0, 45.0, 91.0, 95.0, 49.0, 33.0, 36.0,
43.0, 45.0, 30.0, 56.0, 69.0, 67.0, 46.0, 61.0, 66.0, 71.0, 86.0, 56.0, 53.0,
37.0, 72.0, 28.0, 70.0, 52.0, 32.0, 49.0, 54.0, 52.0, 29.0, 32.0, 55.0, 62.0,
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41.0, 48.0, 61.0, 48.0, 54.0, 54.0, 51.0, 52.0, 64.0, 48.0, 63.0, 64.0, 60.0,
54.0, 51.0, 48.0, 53.0, 73.0, 62.0, 62.0, 42.0, 79.0, 41.0, 52.0, 55.0, 56.0,
55.0, 53.0, 54.0, 58.0, 51.0, 61.0, 70.0, 73.0, 74.0, 60.0, 67.0, 45.0, 53.0,
56.0, 49.0, 51.0, 63.0, 49.0, 88.0, 62.0, 71.0, 57.0, 56.0, 50.0, 54.0, 46.0,
51.0, 68.0, 52.0, 55.0, 57.0, 51.0, 70.0, 88.0, 47.0, 51.0, 55.0, 24.0, 45.0,
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65.0, 27.0, 46.0, 61.0, 36.0, 63.0, 42.0, 49.0, 70.0, 56.0, 36.0, 48.0, 42.0,
55.0, 60.0, 52.0, 83.0, 47.0, 35.0, 42.0, 38.0, 24.0, 44.0, 57.0, 50.0, 40.0,
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48.0, 56.0, 53.0, 34.0, 48.0, 43.0, 46.0, 54.0, 70.0, 50.0, 57.0, 53.0, 73.0,
45.0, 61.0, 45.0, 62.0, 46.0, 64.0, 59.0, 53.0, 52.0, 59.0, 46.0, 47.0, 43.0,
47.0, 45.0, 56.0, 52.0, 45.0, 50.0, 54.0, 63.0, 66.0, 67.0, 70.0, 57.0, 59.0,

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92.0, 44.0, 26.0, 27.0, 48.0, 36.0, 51.0, 50.0, 43.0, 30.0, 37.0, 60.0, 59.0,
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66.0, 45.0, 86.0, 78.0, 84.0, 94.0, 58.0, 68.0, 62.0, 49.0, 55.0, 57.0, 57.0,
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96.0, 75.0, 69.0, 88.0, 71.0, 90.0, 75.0, 70.0, 52.0, 80.0, 86.0, 68.0, 51.0,
69.0, 80.0, 52.0, 51.0, 53.0, 74.0, 81.0, 64.0, 73.0, 60.0, 58.0, 74.0, 92.0,
81.0, 88.0, 66.0, 40.0, 57.0, 86.0, 63.0, 77.0, 76.0, 59.0, 58.0, 67.0, 62.0,
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39.0, 42.0, 52.0, 20.0, 85.0, 33.0, 26.0, 27.0, 47.0, 98.0, 48.0, 58.0, 45.0,
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33.0, 44.0, 75.0, 61.0, 67.0, 58.0, 33.0, 53.0, 45.0, 56.0, 47.0, 79.0, 38.0,
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79.0, 73.0, 68.0, 76.0, 61.0, 87.0, 66.0, 84.0, 68.0, 87.0, 93.0, 74.0, 66.0,
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74.0, 80.0, 72.0, 63.0, 60.0, 90.0, 58.0, 59.0, 89.0, 61.0, 50.0, 51.0, 69.0,
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53.0, 54.0, 60.0, 68.0, 61.0, 42.0, 40.0, 70.0, 73.0, 94.0, 56.0, 40.0, 35.0,
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18.0, 27.0, 19.0, 19.0, 17.0, 22.0, 12.0, 11.0, 12.0, 18.0, 11.0, 12.0, 31.0,
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13.0, 19.0, 20.0, 31.0, 35.0, 28.0, 13.0, 23.0, 14.0, 20.0, 27.0, 30.0, 20.0,
26.0, 18.0, 18.0, 23.0, 13.0, 10.0, 9.0, 10.0, 18.0, 29.0, 20.0, 30.0, 25.0,
32.0, 19.0, 11.0, 24.0, 19.0, 25.0, 25.0, 30.0, 24.0, 31.0, 26.0, 16.0, 24.0,
21.0, 22.0, 20.0, 32.0, 36.0, 30.0, 34.0, 19.0, 18.0, 17.0, 17.0, 17.0, 22.0,
20.0, 23.0, 35.0, 24.0, 23.0, 20.0, 19.0, 18.0, 17.0, 17.0, 23.0, 34.0, 20.0,
22.0, 27.0, 25.0, 21.0, 17.0, 16.0, 23.0, 23.0, 18.0, 21.0, 21.0, 34.0, 27.0,
31.0, 29.0, 29.0, 37.0, 24.0, 12.0, 17.0, 21.0, 24.0, 31.0, 24.0, 28.0, 18.0,
18.0, 20.0, 20.0, 26.0, 35.0, 37.0, 31.0, 17.0, 19.0, 20.0, 26.0, 28.0, 25.0,

39.0, 42.0, 26.0, 19.0, 45.0, 20.0, 17.0, 18.0, 33.0, 15.0, 19.0, 20.0, 21.0,
24.0, 23.0, 31.0, 16.0, 20.0, 16.0, 17.0, 32.0, 17.0, 21.0, 21.0, 36.0, 19.0,
20.0, 20.0, 23.0, 22.0, 22.0, 21.0, 16.0, 19.0, 26.0, 27.0, 27.0, 22.0, 20.0,
19.0, 26.0, 23.0, 18.0, 14.0, 18.0, 33.0, 25.0, 30.0, 38.0, 27.0, 17.0, 20.0,
15.0, 15.0, 24.0, 26.0, 17.0, 17.0, 18.0, 29.0, 35.0, 19.0, 19.0, 24.0, 29.0,
22.0, 20.0, 21.0, 23.0, 14.0, 21.0, 16.0, 13.0, 23.0, 19.0, 28.0, 22.0, 22.0,
18.0, 18.0, 20.0, 27.0, 27.0, 24.0, 27.0, 37.0, 37.0, 26.0, 29.0, 26.0, 26.0,
28.0, 19.0, 25.0, 20.0, 17.0, 22.0, 27.0, 36.0, 26.0, 22.0, 19.0, 29.0, 27.0,
26.0, 30.0, 18.0, 22.0, 14.0, 15.0, 17.0, 17.0, 19.0, 20.0, 23.0, 28.0, 37.0,
23.0, 35.0, 24.0, 26.0, 18.0, 19.0, 16.0, 15.0, 17.0, 17.0, 19.0, 23.0, 18.0,
21.0, 26.0, 38.0, 23.0, 32.0, 31.0, 32.0, 23.0, 27.0, 23.0, 18.0, 22.0, 20.0,
32.0, 20.0, 19.0, 20.0, 18.0, 19.0, 20.0, 29.0, 29.0, 34.0, 34.0, 23.0, 23.0,
19.0, 19.0, 22.0, 29.0, 24.0, 22.0, 17.0, 17.0, 18.0, 20.0, 18.0, 19.0, 24.0,
28.0, 24.0, 23.0, 28.0, 20.0, 21.0, 18.0, 17.0, 20.0, 15.0, 34.0, 31.0, 23.0,
25.0, 28.0, 38.0, 34.0, 19.0, 19.0, 21.0, 23.0, 21.0, 23.0, 34.0, 38.0, 29.0,
30.0, 23.0, 27.0, 20.0, 15.0, 21.0, 41.0, 26.0, 31.0, 17.0, 15.0, 18.0, 17.0,
19.0, 16.0, 17.0, 23.0, 27.0, 22.0, 23.0, 32.0, 31.0, 23.0, 20.0, 22.0, 18.0,
12.0, 15.0, 19.0, 17.0, 14.0, 17.0, 20.0, 19.0, 19.0, 18.0, 22.0, 26.0, 15.0,
22.0, 16.0, 15.0, 17.0, 13.0, 16.0, 21.0, 19.0, 17.0, 20.0, 23.0, 18.0, 20.0,
12.0, 13.0, 13.0, 10.0, 20.0, 18.0, 32.0, 11.0, 15.0, 11.0, 12.0, 14.0, 15.0,
18.0, 17.0, 17.0, 25.0, 14.0, 11.0, 7.0, 11.0, 8.0, 17.0, 14.0, 16.0, 18.0,
16.0, 15.0, 15.0, 13.0, 16.0, 17.0, 11.0, 18.0, 17.0, 21.0, 21.0, 20.0, 18.0,
19.0, 12.0, 35.0, 34.0, 39.0, 20.0, 35.0, 26.0, 43.0, 34.0, 35.0, 37.0, 27.0,
31.0, 30.0, 22.0, 27.0, 21.0, 26.0, 15.0, 15.0, 32.0, 34.0, 23.0, 28.0, 22.0,
28.0, 26.0, 39.0, 26.0, 19.0, 17.0, 19.0, 18.0, 21.0, 32.0, 31.0, 37.0, 40.0,
34.0, 26.0, 17.0, 20.0, 29.0, 31.0, 39.0, 26.0, 21.0, 31.0, 30.0, 37.0, 30.0,
33.0, 28.0, 20.0, 27.0, 34.0, 35.0, 36.0, 28.0, 20.0, 17.0, 17.0, 20.0, 36.0,
35.0, 40.0, 25.0, 37.0, 33.0, 27.0, 19.0, 16.0, 11.0, 31.0, 34.0, 29.0, 33.0,
28.0, 31.0, 30.0, 26.0, 32.0, 32.0, 32.0, 31.0, 27.0, 32.0, 29.0, 32.0, 32.0,
32.0, 29.0, 33.0, 30.0, 32.0, 30.0, 26.0, 30.0, 31.0, 31.0, 30.0, 31.0, 31.0,
32.0, 32.0, 30.0, 31.0, 33.0, 32.0, 27.0, 30.0, 33.0, 30.0, 32.0, 30.0, 34.0,
32.0, 29.0, 32.0, 32.0, 30.0, 30.0, 31.0, 30.0, 29.0, 30.0, 32.0, 35.0, 32.0,
31.0, 28.0, 33.0, 32.0, 33.0, 32.0, 31.0, 29.0, 29.0, 33.0, 28.0, 30.0, 33.0,
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28.0, 32.0, 34.0, 33.0, 34.0, 34.0, 33.0, 34.0, 34.0, 36.0, 32.0, 35.0, 36.0,
33.0, 31.0, 32.0, 31.0, 32.0, 31.0, 39.0, 38.0, 37.0, 41.0, 40.0, 39.0, 40.0,
35.0, 34.0, 36.0, 38.0, 34.0, 37.0, 35.0, 33.0, 36.0, 36.0, 36.0, 36.0, 28.0,
34.0, 25.0, 28.0, 33.0, 33.0, 36.0, 36.0, 33.0, 34.0, 33.0, 34.0, 36.0, 34.0,
33.0, 32.0, 29.0, 30.0, 31.0, 35.0, 35.0, 36.0, 35.0, 37.0, 38.0, 39.0, 41.0,
38.0, 36.0, 39.0, 39.0, 41.0, 38.0, 36.0, 35.0, 34.0, 33.0, 33.0, 25.0, 33.0,
31.0, 34.0, 34.0, 37.0, 32.0, 37.0, 28.0, 35.0, 34.0, 32.0, 33.0, 32.0, 32.0,
30.0, 31.0, 32.0, 29.0, 32.0, 32.0, 30.0, 28.0, 33.0, 31.0, 33.0, 33.0, 39.0,
33.0, 20.0, 21.0, 30.0, 25.0, 26.0, 25.0, 21.0, 26.0]

2.5.1 Mean & Standard Deviation

```python
import pandas as pd
# Select the columns for which you want to calculate the mean
columns = ['MinTemp', 'MaxTemp', 'Rainfall', 'WindGustSpeed', 'WindSpeed9am',
 'WindSpeed3pm',
          'Humidity9am', 'Humidity3pm', 'Pressure9am', 'Pressure3pm',
 'Cloud9am', 'Cloud3pm',
          'Temp9am', 'Temp3pm', 'RainToday']

# Calculate the mean for each column
mean_values = data_test_clean[columns].mean()

# Print the mean for each column
print("Mean for each column:")
print(mean_values)
```

```
Mean for each column:
MinTemp            13.067384
MaxTemp            23.757944
Rainfall            2.607705
WindGustSpeed      40.702467
WindSpeed9am       15.289355
WindSpeed3pm       19.530689
Humidity9am        67.574395
Humidity3pm        50.937849
Pressure9am      1017.232752
Pressure3pm      1014.843160
Cloud9am            4.389851
Cloud3pm            4.464132
Temp9am            17.721812
Temp3pm            22.254868
RainToday           0.236882
dtype: float64
```

```python
import pandas as pd

# Select the columns for which you want to calculate the standard deviation
columns = ['MinTemp', 'MaxTemp', 'Rainfall', 'WindGustSpeed', 'WindSpeed9am',
 'WindSpeed3pm',
          'Humidity9am', 'Humidity3pm', 'Pressure9am', 'Pressure3pm',
 'Cloud9am', 'Cloud3pm',
          'Temp9am', 'Temp3pm', 'RainToday']

# Calculate the standard deviation for each column
std_values = data_test_clean[columns].std()

# Print the standard deviation for each column
```

```
print("Standard deviation for each column:")
print(std_values)
```

```
Standard deviation for each column:
MinTemp            6.555005
MaxTemp            7.168013
Rainfall           9.561675
WindGustSpeed     13.460367
WindSpeed9am       8.575474
WindSpeed3pm       8.577614
Humidity9am       19.042966
Humidity3pm       20.979821
Pressure9am        6.974059
Pressure3pm        6.918889
Cloud9am           2.869173
Cloud3pm           2.720248
Temp9am            6.682983
Temp3pm            7.037965
RainToday          0.425179
dtype: float64
```

```python
positive_integers_arr = np.array(positive_integers)

# Calculate the mean
mean_value = np.mean(positive_integers_arr)

# Calculate the standard deviation
std_deviation = np.std(positive_integers_arr)

# Print the mean and standard deviation
print("Mean:", mean_value)
print("Standard Deviation:", std_deviation)
```

```
Mean: 55.44756431308156
Standard Deviation: 161.17613215998992
```

2.6 Kruskal's algorithm

The following code block will perform Kruskal's algorithm on the dataset with 'RainToday' as the dependent variable and the other variables as independent variables. This non-parametric test is used when the dependent variable is categorical.

```python
from scipy import stats

# Extract the variables from the dataset
MinTemp = data_test_clean['MinTemp']
MaxTemp = data_test_clean['MaxTemp']
Rainfall = data_test_clean['Rainfall']
```

```python
WindGustSpeed = data_test_clean['WindGustSpeed']
WindSpeed9am = data_test_clean['WindSpeed9am']
WindSpeed3pm = data_test_clean['WindSpeed3pm']
Humidity9am = data_test_clean['Humidity9am']
Humidity3pm = data_test_clean['Humidity3pm']
Pressure9am = data_test_clean['Pressure9am']
Pressure3pm = data_test_clean['Pressure3pm']
Cloud9am = data_test_clean['Cloud9am']
Cloud3pm = data_test_clean['Cloud3pm']
Temp9am = data_test_clean['Temp9am']
Temp3pm = data_test_clean['Temp3pm']
RainToday = data_test_clean['RainToday']

# Perform Kruskal-Wallis H test
hvalue, pvalue = stats.kruskal(MinTemp, MaxTemp, Rainfall, WindGustSpeed,
 ↪WindSpeed9am, WindSpeed3pm, Humidity9am,
                               Humidity3pm, Pressure9am, Pressure3pm, Cloud9am,
 ↪Cloud3pm, Temp9am, Temp3pm)

# Print the results
print("Kruskal-Wallis H test results:")
print("H-value:", hvalue)
print("p-value:", pvalue, end="\n\n")
print('Can we reject H0 ?')
print('Yes' if pvalue<0.01 else 'No')
print('(There is a {}% chance of falsely obtaining this result)'.
 ↪format(pvalue*100))
```

```
Kruskal-Wallis H test results:
H-value: 264106.9374832491
p-value: 0.0

Can we reject H0 ?
Yes
(There is a 0.0% chance of falsely obtaining this result)
```

The kruskal function from the scipy.stats module is used to perform the Kruskal-Wallis H test. The resulting hvalue is the test statistic, and the pvalue is the associated p-value. Lower p-values indicate a higher likelihood of a significant difference in the 'RainToday' values across the independent variables.

2.7 Models

```python
[ ]: X = df_upsampled.drop(columns='RainTomorrow')
     y = df_upsampled['RainTomorrow']
```

```python
[ ]: X_train, X_test, y_train, y_test = train_test_split(X, y, train_size=0.9,
     ↪shuffle=True, random_state=44)
```

```python
RandomForestClassifierModel = RandomForestClassifier(criterion = 'gini',
    max_depth=17, n_estimators=100, random_state=44)
RandomForestClassifierModel.fit(X_train, y_train)

print('RandomForestClassifierModel Train Score is : ',
    RandomForestClassifierModel.score(X_train, y_train))
print('RandomForestClassifierModel Test Score is : ',
    RandomForestClassifierModel.score(X_test, y_test))
```

```
RandomForestClassifierModel Train Score is :  0.9804006278711425
RandomForestClassifierModel Test Score is :  0.9274235355106273
```

```python
from sklearn.metrics import f1_score, accuracy_score

# Predict labels for training and test sets
y_train_pred = RandomForestClassifierModel.predict(X_train)
y_test_pred = RandomForestClassifierModel.predict(X_test)

# Calculate F1 score
f1 = f1_score(y_test, y_test_pred)
print('F1 Score:', f1)

# Calculate accuracy
accuracy = accuracy_score(y_test, y_test_pred)
print('Accuracy:', accuracy)
```

```
F1 Score: 0.9293464547060308
Accuracy: 0.9274235355106273
```

```python
import joblib
from sklearn.ensemble import RandomForestClassifier

# Build and train your model
# fit your model on training data

# Save your trained model
joblib.dump(RandomForestClassifierModel, 'RandomForestClassifierModel.joblib')
```
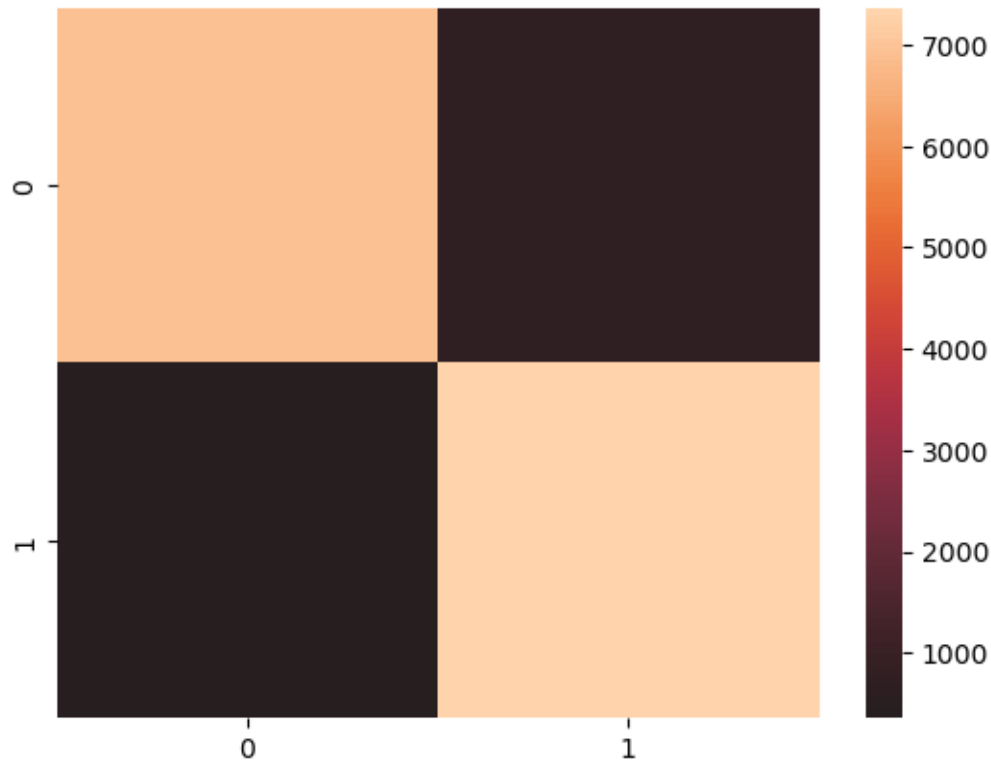
```
['RandomForestClassifierModel.joblib']
```

```python
y_pred_RF = RandomForestClassifierModel.predict(X_test)
CM_RF = confusion_matrix(y_test, y_pred_RF)

sns.heatmap(CM_RF, center=True)
plt.show()

print('Confusion Matrix is\n', CM_RF)
```

```
Confusion Matrix is
 [[6946  763]
 [ 357 7366]]
```

```
GBCModel = GradientBoostingClassifier(n_estimators=200, max_depth=11,
 ↪learning_rate=0.07, random_state=44)
GBCModel.fit(X_train, y_train)
print('GBCModel Train Score is : ' , GBCModel.score(X_train, y_train))
print('GBCModel Test Score is : ' , GBCModel.score(X_test, y_test))
```

```
GBCModel Train Score is :   0.9900923085785055
GBCModel Test Score is :   0.9331907724209435
```

```
from sklearn.ensemble import GradientBoostingClassifier
from sklearn.metrics import f1_score, accuracy_score
from sklearn.model_selection import train_test_split

X = df_upsampled.drop(columns='RainTomorrow')
y = df_upsampled['RainTomorrow']
X_train, X_test, y_train, y_test = train_test_split(X, y, train_size=0.9,
 ↪shuffle=True, random_state=44)
```

```python
GradientBoostingClassifierModel = GradientBoostingClassifier(n_estimators=200,
    max_depth=11, learning_rate=0.07, random_state=44)
GradientBoostingClassifierModel.fit(X_train, y_train)
```

```
[ ]: GradientBoostingClassifier(learning_rate=0.07, max_depth=11, n_estimators=200,
                                 random_state=44)
```

```python
[ ]: print('GBCModel Train Score is : ' , GBCModel.score(X_train, y_train))
     print('GBCModel Test Score is : ' , GBCModel.score(X_test, y_test))
     # Predict labels for training and test sets
     y_train_pred = GradientBoostingClassifierModel.predict(X_train)
     y_test_pred = GradientBoostingClassifierModel.predict(X_test)

     # Calculate F1 score
     f1 = f1_score(y_test, y_test_pred)
     print('F1 Score:', f1)

     # Calculate accuracy
     accuracy = accuracy_score(y_test, y_test_pred)
     print('Accuracy:', accuracy)
```

```
GBCModel Train Score is :  0.9900923085785055
GBCModel Test Score is :  0.9331907724209435
F1 Score: 0.93528340970435
Accuracy: 0.9331907724209435
```
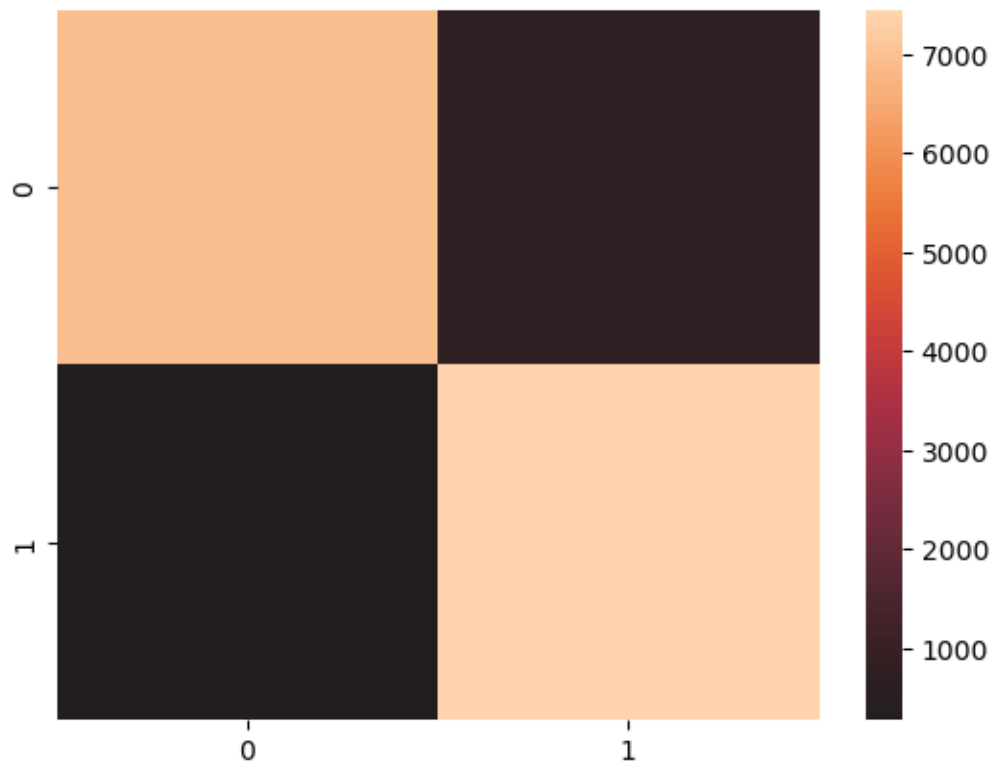
```python
[ ]: joblib.dump(GBCModel, 'GBCModel.joblib')
```

```
[ ]: ['GBCModel.joblib']
```

```python
[ ]: y_pred_GB = GBCModel.predict(X_test)
     CM_GB = confusion_matrix(y_test, y_pred_GB)

     sns.heatmap(CM_GB, center=True)
     plt.show()

     print('Confusion Matrix is\n', CM_GB)
```
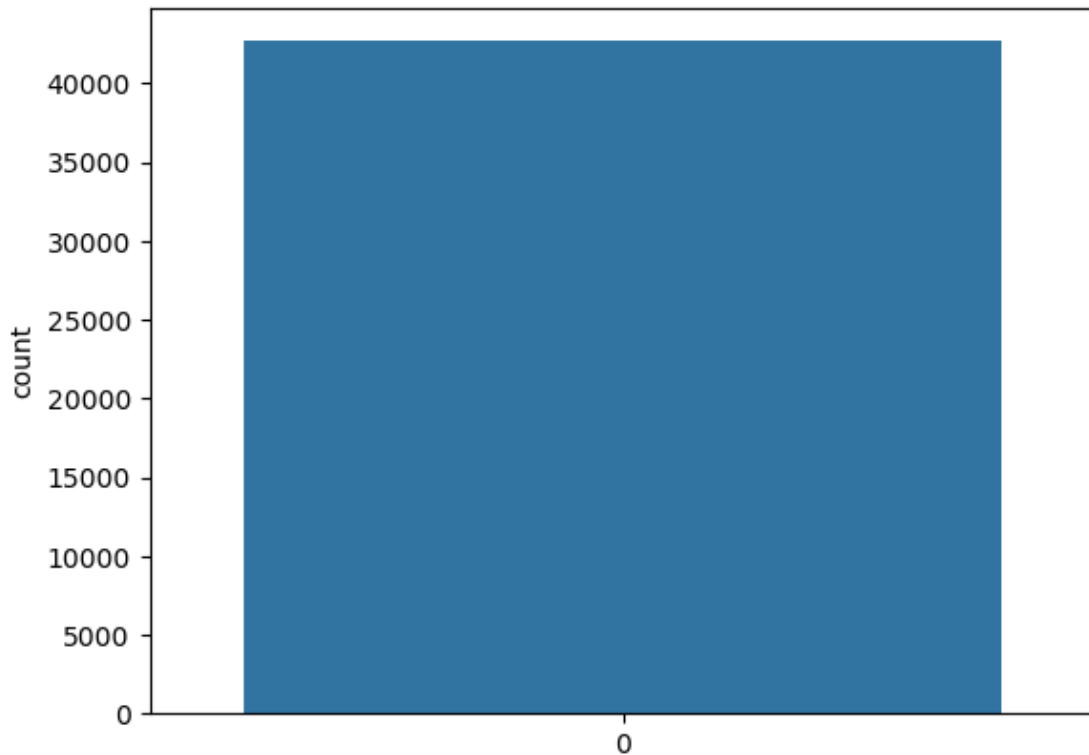
```
Confusion Matrix is
 [[6951  758]
  [ 273 7450]]
```

[ ]: `y_pred = GBCModel.predict(test)`

[ ]: `sns.countplot(y_pred)`

[ ]: `<Axes: ylabel='count'>`

```
[ ]: test = pd.read_csv('WeatherTestData.csv')
     submission = test[["row ID"]]
     submission["RainTomorrow"] = y_pred
```

/var/folders/df/npmhf4fs0qb8cnwm2kmptxk00000gn/T/ipykernel_20957/1624392679.py:3
: SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

```
[ ]: submission.to_csv('predict_weather.csv', index=False)
```

Two different testing algorithms that we use:

1. Randomized Search Cross Validation for Hyperparameter Tuning: This algorithm randomly
   selects a set of hyperparameters and uses cross-validation to evaluate the model's performance.
   It then repeats this process multiple times and selects the best set of hyperparameters that
   give the highest accuracy score.

```python
from sklearn.model_selection import RandomizedSearchCV

# define the hyperparameter grid
param_grid = {
    'n_estimators': [100, 200, 300],
    'max_features': ['auto', 'sqrt'],
    'max_depth': [5, 10, 15, None],
    'min_samples_split': [2, 5, 10],
    'min_samples_leaf': [1, 2, 4]
}

# create a Random Forest Classifier object
rfc = RandomForestClassifier(random_state=42)

# create a RandomizedSearchCV object
rscv = RandomizedSearchCV(
    estimator=rfc, param_distributions=param_grid,
    n_iter=10, cv=5, verbose=2, random_state=42, n_jobs=-1
)

# fit the RandomizedSearchCV object on the training data
rscv.fit(X_train, y_train)

# print the best hyperparameters and the corresponding accuracy score
print("Best Hyperparameters:", rscv.best_params_)
print("Best Accuracy Score:", rscv.best_score_)

# evaluate the model on the test data
rfc_best = rscv.best_estimator_
print("Test Accuracy Score:", rfc_best.score(X_test, y_test))

joblib.dump(rfc, 'rfc.joblib')
```

```
Fitting 5 folds for each of 10 candidates, totalling 50 fits
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=4,
min_samples_split=10, n_estimators=100; total time=  20.4s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=5, n_estimators=100; total time=  21.1s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=5, n_estimators=100; total time=  21.3s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=5, n_estimators=100; total time=  22.3s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=5, n_estimators=100; total time=  22.4s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=4,
min_samples_split=10, n_estimators=100; total time=  22.6s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=5, n_estimators=100; total time=  23.0s
```

```
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=4,
min_samples_split=10, n_estimators=100; total time=   23.9s
```

/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(

```
[CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time=   19.3s
```

/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(

```
[CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time=   19.2s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=4,
min_samples_split=10, n_estimators=100; total time=   21.0s
```

/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(
/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(

```
[CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time=   19.4s
[CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time=   19.2s
```

/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(
/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`

has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(

[CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time= 19.3s

/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(

[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=4,
min_samples_split=10, n_estimators=100; total time= 21.2s

/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(

[CV] END max_depth=None, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time= 22.9s

/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(

[CV] END max_depth=5, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time=   7.8s
[CV] END max_depth=5, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time=   7.7s

/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(
/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(

```
[CV] END max_depth=5, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time=   7.7s
```

```
/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(
```

```
[CV] END max_depth=5, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time=   7.6s
```

```
/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(
```

```
[CV] END max_depth=5, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time=   7.6s
```

```
/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(
```

```
[CV] END max_depth=None, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time=  22.0s
```

```
/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(
```

```
[CV] END max_depth=None, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time=  22.1s
[CV] END max_depth=None, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time=  22.0s
[CV] END max_depth=None, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time=  21.9s
```

```
/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
```

```
    warn(
/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
    warn(
/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
    warn(

[CV] END max_depth=15, max_features=auto, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time=  19.5s
[CV] END max_depth=15, max_features=auto, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time=  19.4s

/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
    warn(
/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
    warn(

[CV] END max_depth=15, max_features=auto, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time=  19.5s

/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
    warn(

[CV] END max_depth=15, max_features=auto, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time=  19.4s

/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
    warn(
```

```
[CV] END max_depth=15, max_features=auto, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time=  19.7s

/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(

[CV] END max_depth=10, max_features=auto, min_samples_leaf=4,
min_samples_split=2, n_estimators=200; total time=  28.1s

/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(

[CV] END max_depth=10, max_features=auto, min_samples_leaf=4,
min_samples_split=2, n_estimators=200; total time=  27.7s

/Users/hemang/miniconda3/lib/python3.10/site-
packages/sklearn/ensemble/_forest.py:424: FutureWarning: `max_features='auto'`
has been deprecated in 1.1 and will be removed in 1.3. To keep the past
behaviour, explicitly set `max_features='sqrt'` or remove this parameter as it
is also the default value for RandomForestClassifiers and ExtraTreesClassifiers.
  warn(

[CV] END max_depth=10, max_features=auto, min_samples_leaf=4,
min_samples_split=2, n_estimators=200; total time=  27.8s
[CV] END max_depth=None, max_features=auto, min_samples_leaf=4,
min_samples_split=2, n_estimators=300; total time= 1.1min
[CV] END max_depth=None, max_features=auto, min_samples_leaf=4,
min_samples_split=2, n_estimators=300; total time= 1.1min
[CV] END max_depth=None, max_features=auto, min_samples_leaf=4,
min_samples_split=2, n_estimators=300; total time= 1.1min
[CV] END max_depth=10, max_features=auto, min_samples_leaf=4,
min_samples_split=2, n_estimators=200; total time=  27.8s
[CV] END max_depth=10, max_features=auto, min_samples_leaf=4,
min_samples_split=2, n_estimators=200; total time=  27.7s
[CV] END max_depth=None, max_features=auto, min_samples_leaf=4,
min_samples_split=2, n_estimators=300; total time= 1.1min
[CV] END max_depth=None, max_features=auto, min_samples_leaf=4,
min_samples_split=2, n_estimators=300; total time= 1.1min
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=10, n_estimators=200; total time=  46.6s
[CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=200; total time=  41.5s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
```

```
    min_samples_split=10, n_estimators=200; total time=  46.8s
    [CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
    min_samples_split=10, n_estimators=200; total time=  46.9s
    [CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
    min_samples_split=10, n_estimators=200; total time=  46.8s
    [CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
    min_samples_split=5, n_estimators=200; total time=  41.5s
    [CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
    min_samples_split=5, n_estimators=200; total time=  41.5s
    [CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
    min_samples_split=10, n_estimators=200; total time=  45.9s
    [CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
    min_samples_split=5, n_estimators=200; total time=  32.9s
    [CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
    min_samples_split=5, n_estimators=200; total time=  27.4s
    Best Hyperparameters: {'n_estimators': 100, 'min_samples_split': 5,
    'min_samples_leaf': 2, 'max_features': 'sqrt', 'max_depth': None}
    Best Accuracy Score: 0.9268227680017898
    Test Accuracy Score: 0.9444660445826853
```

[ ]: ['rfc.joblib']

2. Receiver Operating Characteristic (ROC) Curve: This algorithm is used to evaluate the performance of a binary classifier at different classification thresholds. It plots the True Positive Rate (TPR) against the False Positive Rate (FPR) for different threshold values. The area under the ROC curve (AUC-ROC) is a performance metric that ranges from 0.5 to 1. A higher AUC-ROC indicates better model performance.

```python
from sklearn.metrics import roc_curve, auc

# fit the Gradient Boosting Classifier on the training data
gbc = GradientBoostingClassifier(n_estimators=200, max_depth=11,
 ↪learning_rate=0.07, random_state=44)
gbc.fit(X_train, y_train)

# predict the probabilities of the positive class for the test data
y_proba = gbc.predict_proba(X_test)[:, 1]

# calculate the False Positive Rate (FPR), True Positive Rate (TPR), and
 ↪threshold values
fpr, tpr, thresholds = roc_curve(y_test, y_proba)

# calculate the Area Under the Curve (AUC-ROC)
auc_roc = auc(fpr, tpr)

# plot the ROC curve
plt.figure(figsize=(8, 6))
plt.plot(fpr, tpr, lw=2, label=f'AUC = {auc_roc:.2f}')
```
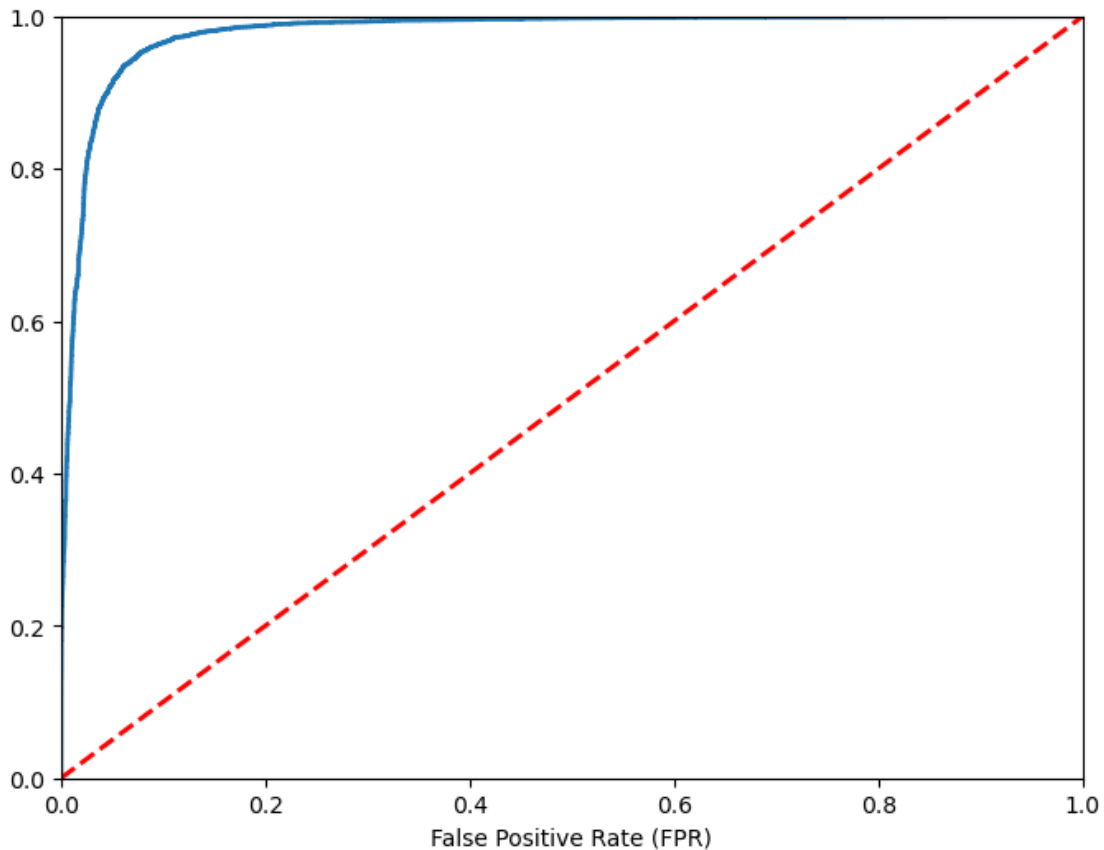
```
plt.plot([0, 1], [0, 1], linestyle='--', lw=2, color='r', label='Random Guess')
plt.xlim([0.0, 1.0])
plt.ylim([0.0, 1.0])
plt.xlabel('False Positive Rate (FPR)')
joblib.dump(gbc, 'gbc.joblib')
```

[ ]: ['gbc.joblib']

[ ]:
```
print(fpr, tpr)
```

```
[0.         0.         0.         … 0.87624854 0.87624854 1.        ]
[0.00000000e+00 1.29483361e-04 6.47416807e-04 … 9.99870517e-01
 1.00000000e+00 1.00000000e+00]
```

The DummyClassifier in scikit-learn does not require explicit training or fitting since it employs simple rules for prediction based on the specified strategy. The strategy='most_frequent' strategy used in your code instructs the DummyClassifier to always predict the most frequent class in the training data. Hence, the model does not learn from the data during training.

DummyClassifier from scikit-learn, which provides a simple strategy for generating predictions.

```python
# import necessary modules
from sklearn.dummy import DummyClassifier
from sklearn.metrics import confusion_matrix
import seaborn as sns
import matplotlib.pyplot as plt

# create a new instance of the classifier
dummy = DummyClassifier(strategy='most_frequent')

# fit the model on the training data
dummy.fit(X_train, y_train)

# predict on the test data
y_pred_dummy = dummy.predict(X_test)

# evaluate the model
print('DummyClassifier Test Score is : ', dummy.score(X_test, y_test))

# calculate and print the confusion matrix
CM_dummy = confusion_matrix(y_test, y_pred_dummy)
sns.heatmap(CM_dummy, center=True)
plt.show()
print('Confusion Matrix is\n', CM_dummy)
```
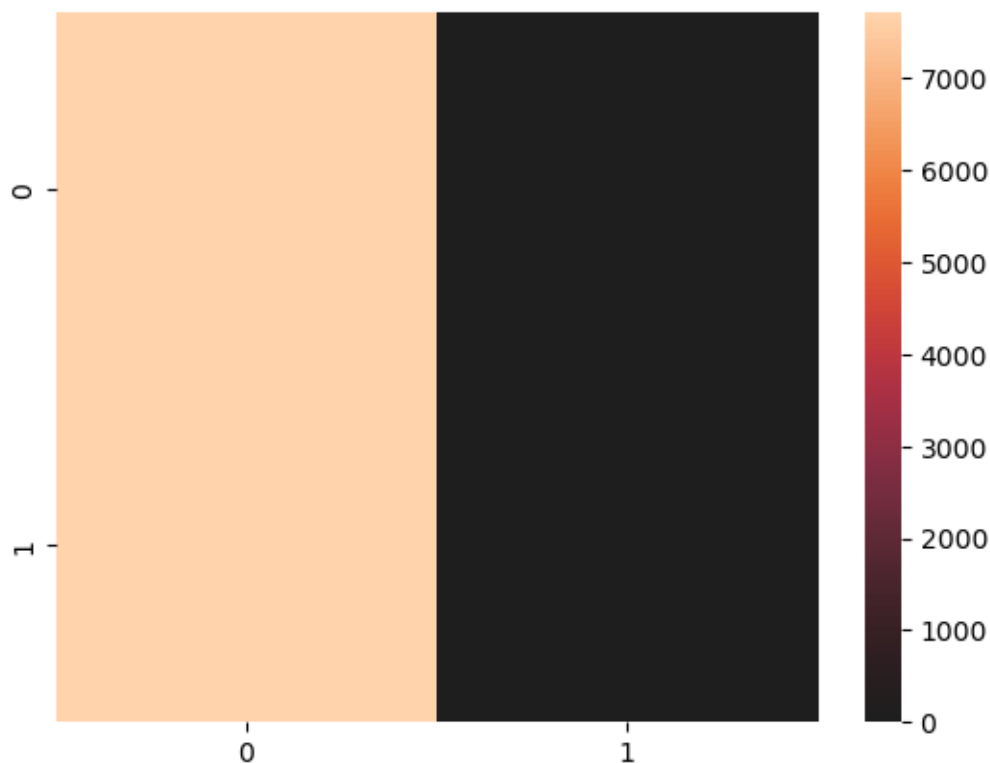
DummyClassifier Test Score is : 0.49954639709694143

```
Confusion Matrix is
 [[7709    0]
 [7723    0]]
```

End of Assignment

Github Link