

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>

Definitions adapted from http

Data source

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

http

1.4 Importing packages

We will import all the required packages and define our dataset

```
[ ]: 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)"

```
[ ]: 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
```

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()`

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

```
[ ]: 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
```

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]

```
[ ]: 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
```

2 Data Analysis

Now we will plot graphs comparing different characteristics of our dataset

2.1 1. Feature Distribution

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

```
[ ]: 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

```
[ ]: 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
```

```
[ ]:
Sunshine      Total    Percent
Evaporation   85208    0.632900
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

```
[ ]: 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
```

```
[ ]: 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_94084/1273592041.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.

```

[ ]: 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

```

```
[ ]: 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
Williamstown	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

```

[ ]: 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
42675	11.0	20.3	0
42676	15.1	26.0	0

[142193 rows x 22 columns]

```
[ ]: '''objects = df.select_dtypes(include = "object").columns
for i in range(len(objects)):
    df[objects[i]] = LabelEncoder().fit_transform(df[objects[i]])

df'''
```

```
[ ]: 'objects = df.select_dtypes(include = "object").columns\nfor i in
range(len(objects)):\n    df[objects[i]] =
LabelEncoder().fit_transform(df[objects[i]])\n\ndf'
```

```
[ ]: train = df.iloc[:99516,:]\nnew_train = pd.concat([train, y], axis=1)\ntest = df.iloc[99516:, :]\nnew_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

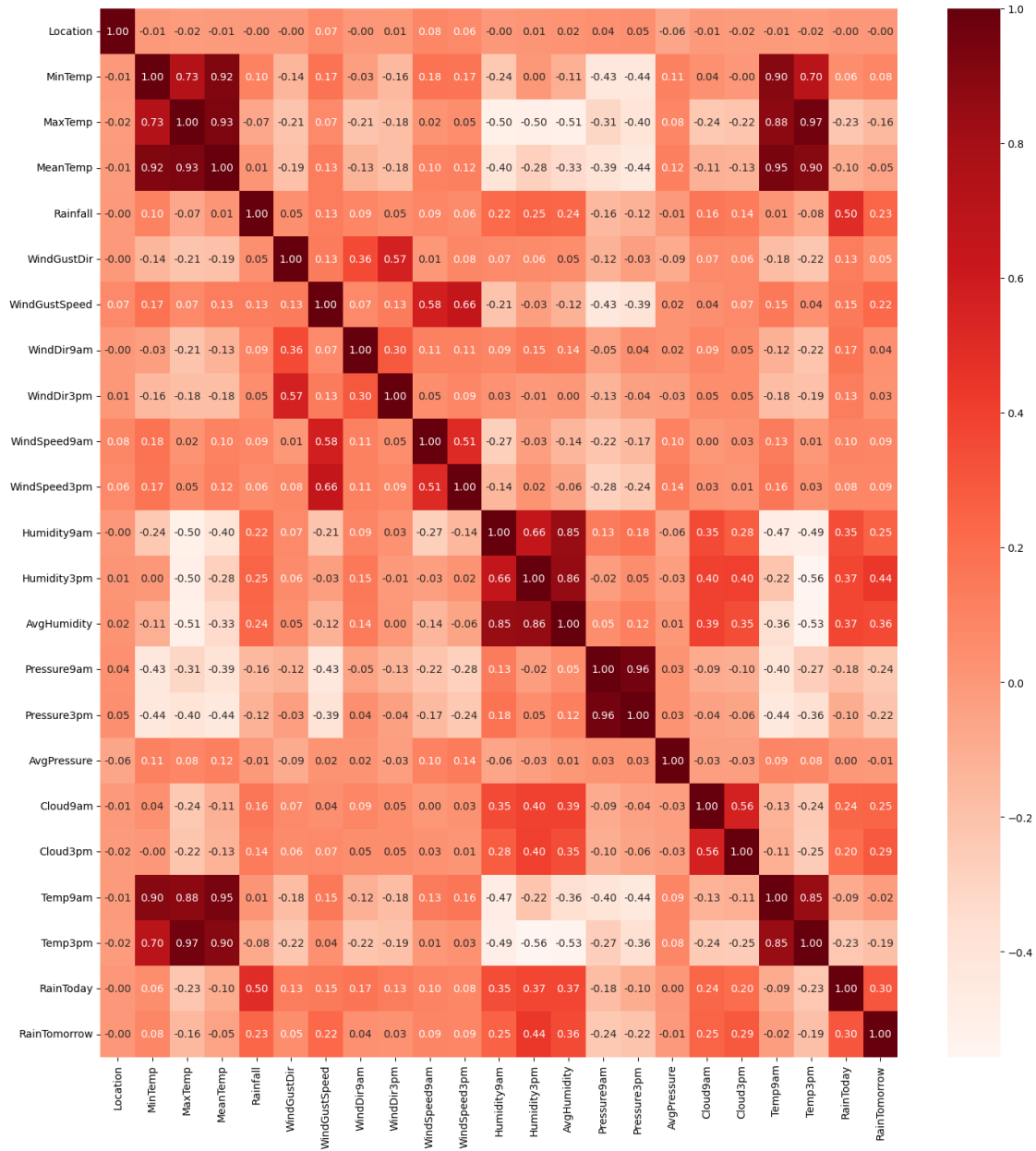
      Pressure9am  Pressure3pm  AvgPressure  Cloud9am  Cloud3pm  Temp9am  \
0          1007.7      1007.1      1007.4      8.0      5.0      16.9
1          1010.6      1007.8      1009.2      5.0      5.0      17.2
2          1010.8      1006.0      1008.4      7.0      8.0      17.8
3          1009.2      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]

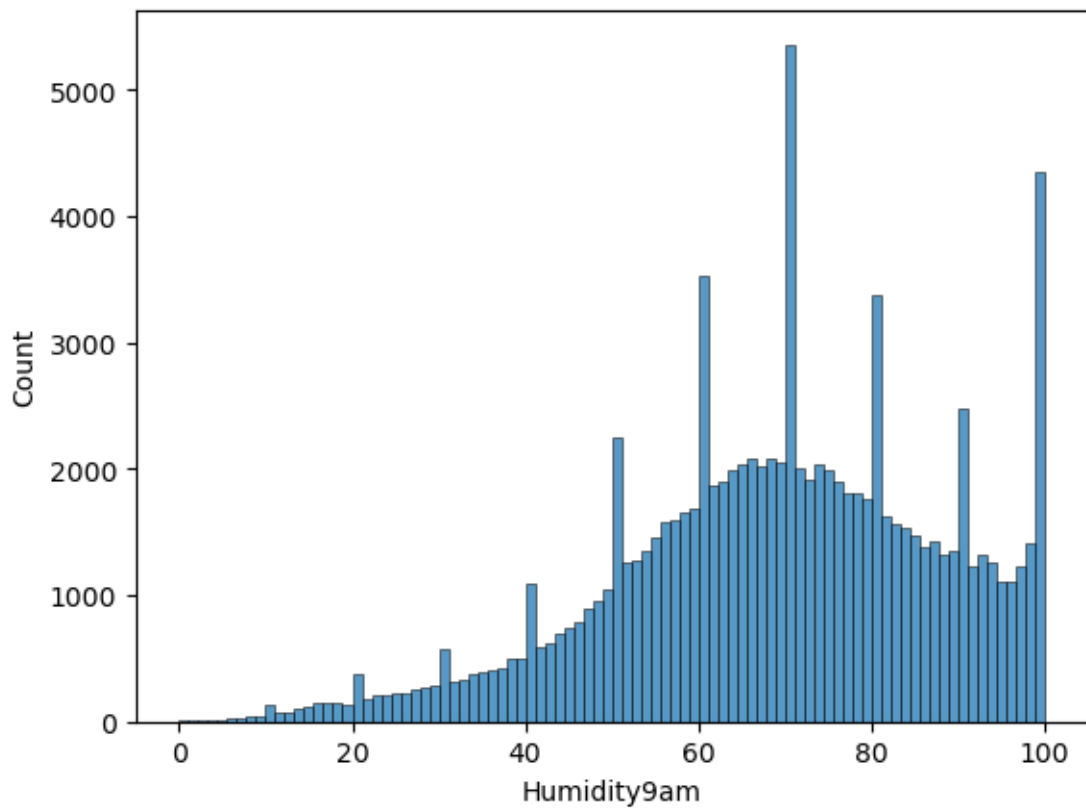
```
[ ]: plt.figure(figsize=(17,18))
cor = new_train.corr()
sns.heatmap(cor, annot=True, cmap=plt.cm.Reds,fmt='.2f')
```

```
[ ]: <Axes: >
```



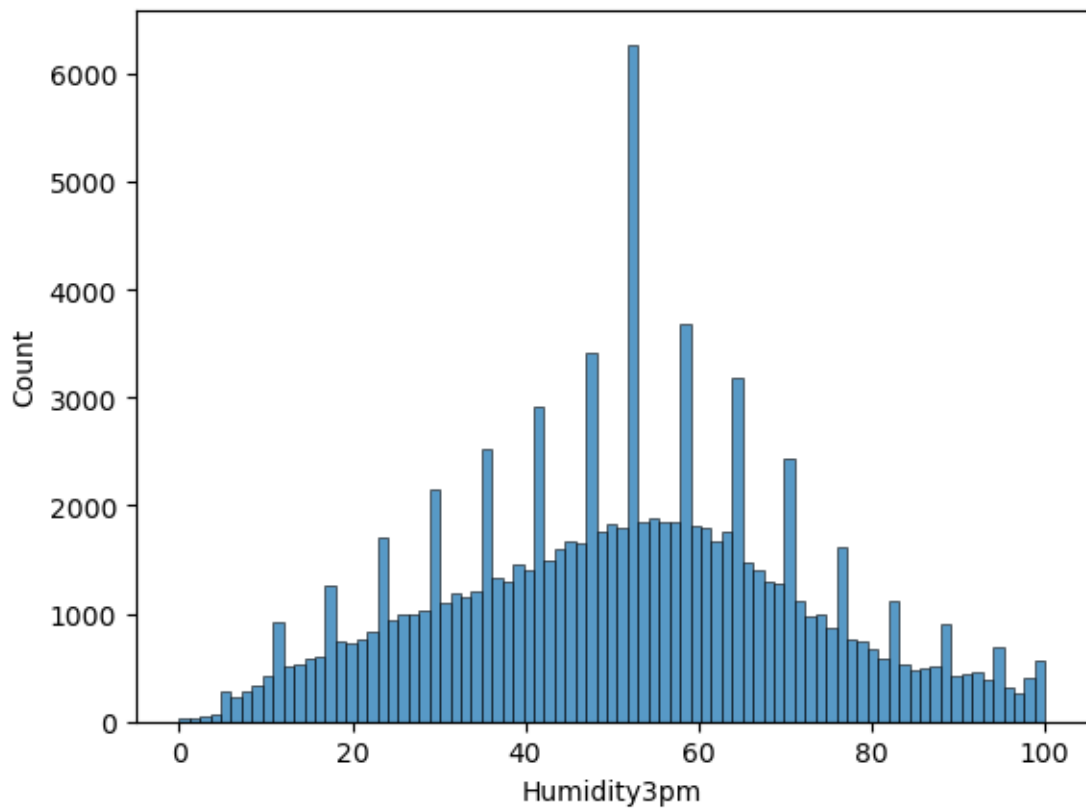
```
[ ]: sns.histplot(new_train['Humidity9am'])
```

```
[ ]: <Axes: xlabel='Humidity9am', ylabel='Count'>
```

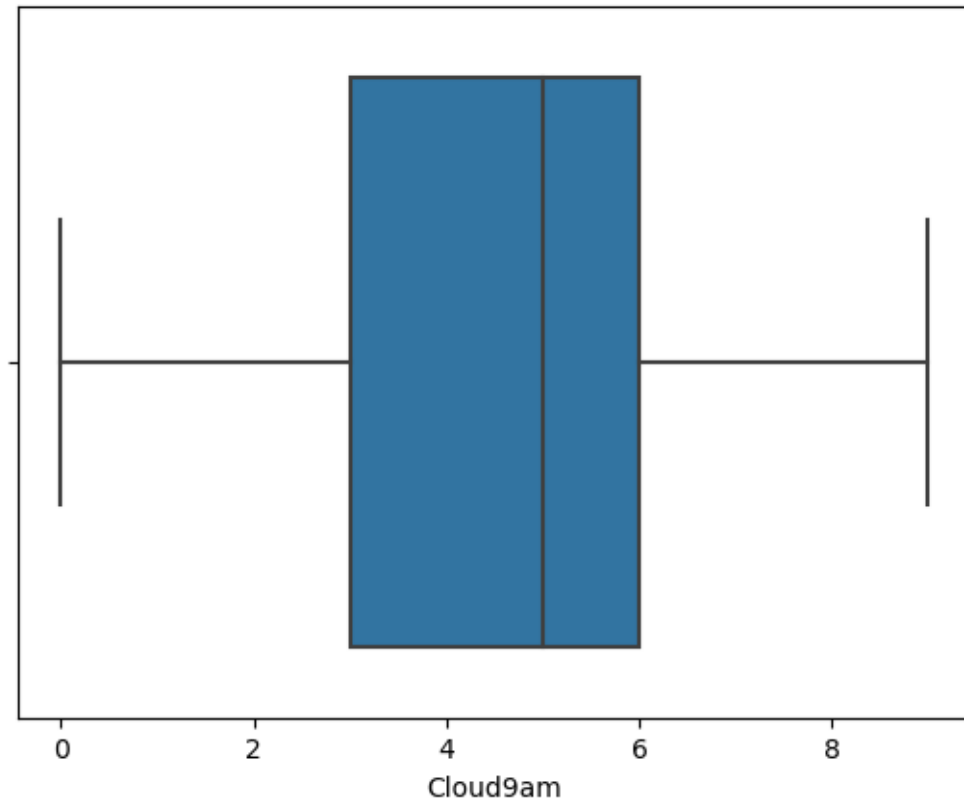
```
[ ]: sns.histplot(new_train['Humidity3pm'])
```

```
[ ]: <Axes: xlabel='Humidity3pm', ylabel='Count'>
```



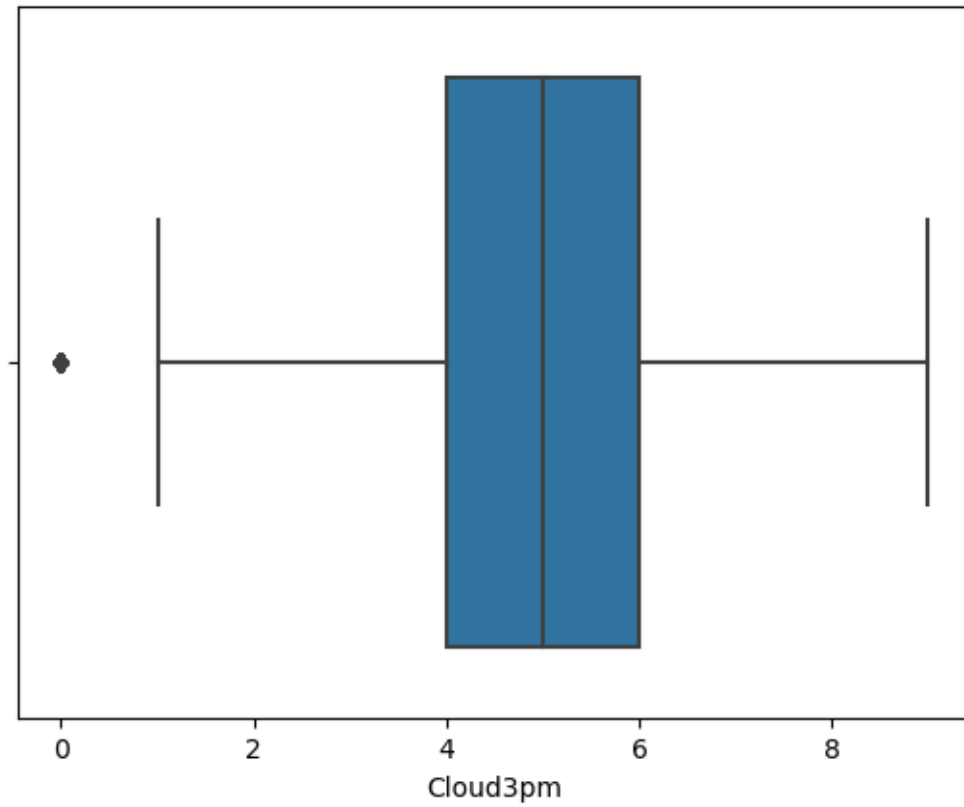
```
[ ]: sns.boxplot(x=new_train['Cloud9am'])
```

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



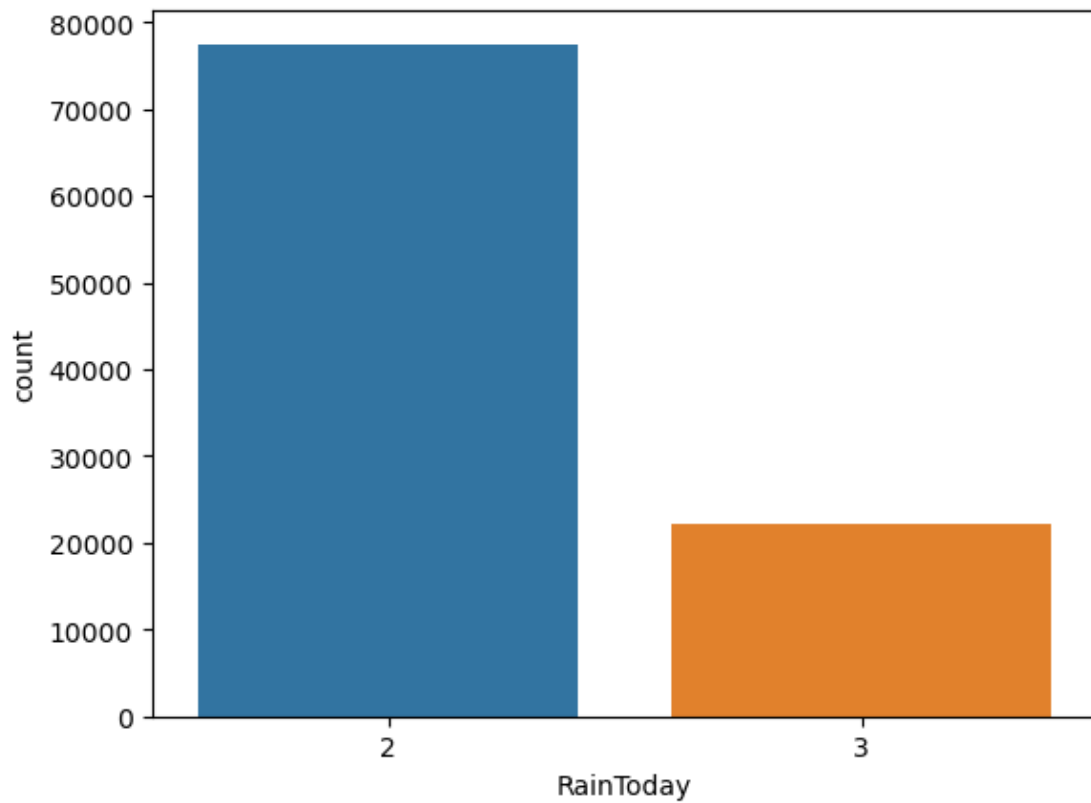
```
[ ]: sns.boxplot(x=new_train['Cloud3pm'])
```

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



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

```
[ ]: <Axes: xlabel='RainToday', ylabel='count'>
```

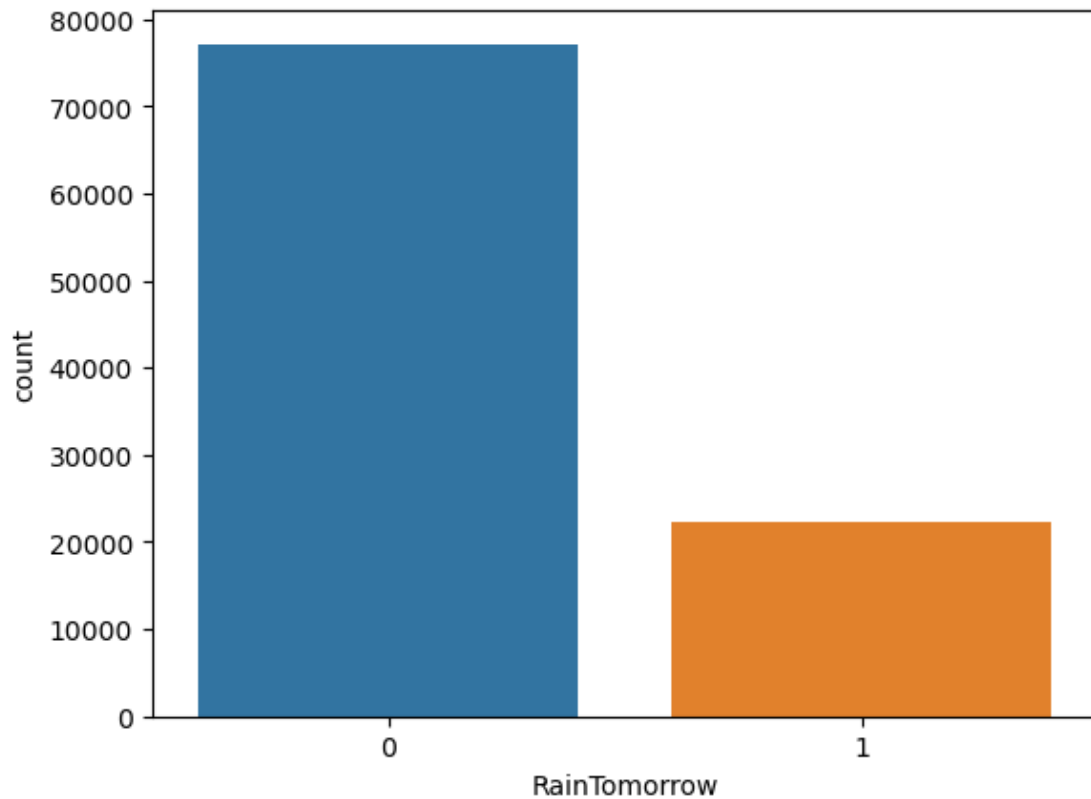


```
[ ]: new_train['RainTomorrow'].value_counts()
```

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

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

```
[ ]: <Axes: xlabel='RainTomorrow', ylabel='count'>
```



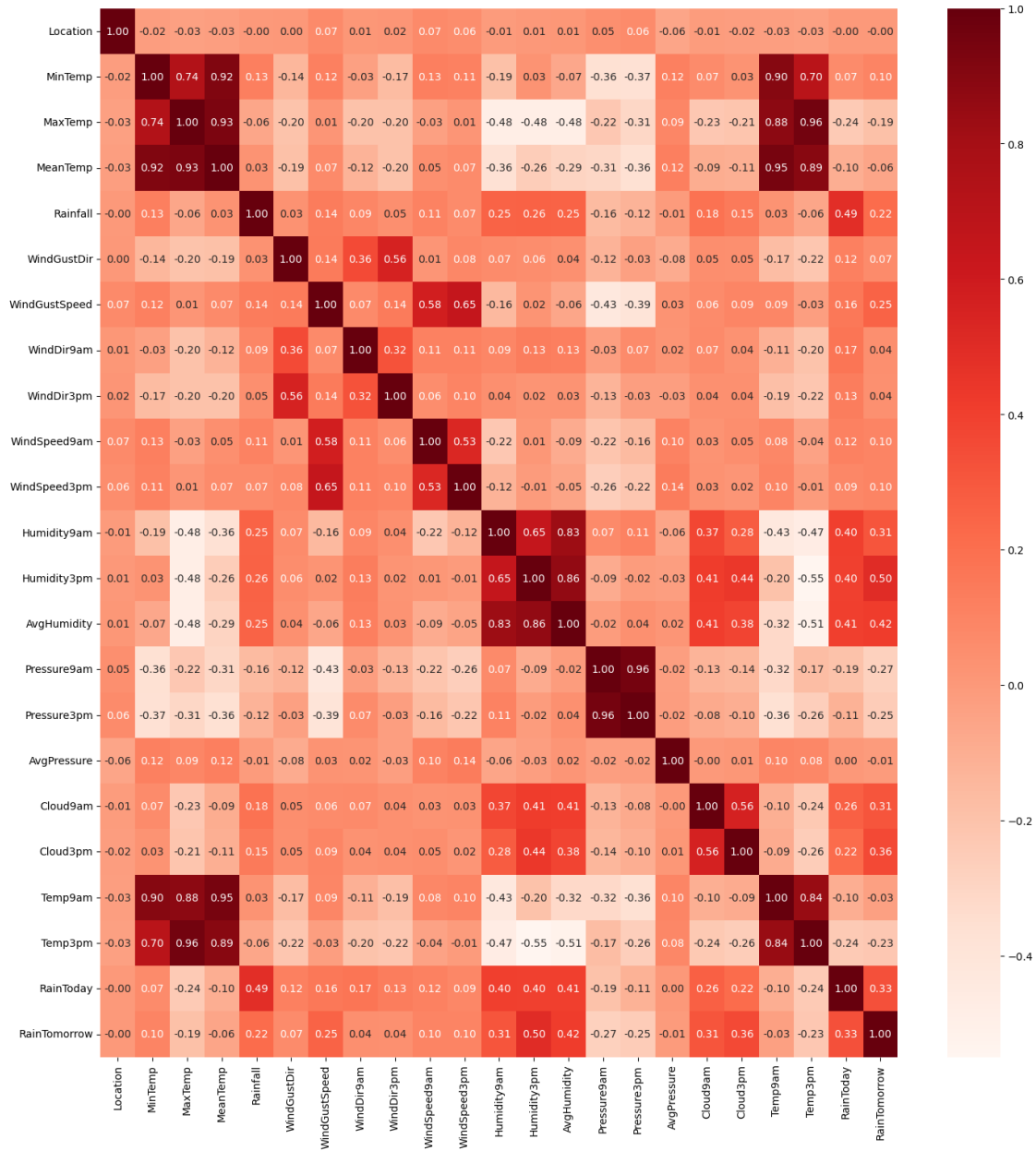
```
[ ]: df_majority_0 = new_train[(new_train['RainTomorrow']==0)]
df_minority_1 = new_train[(new_train['RainTomorrow']==1)]

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])
```

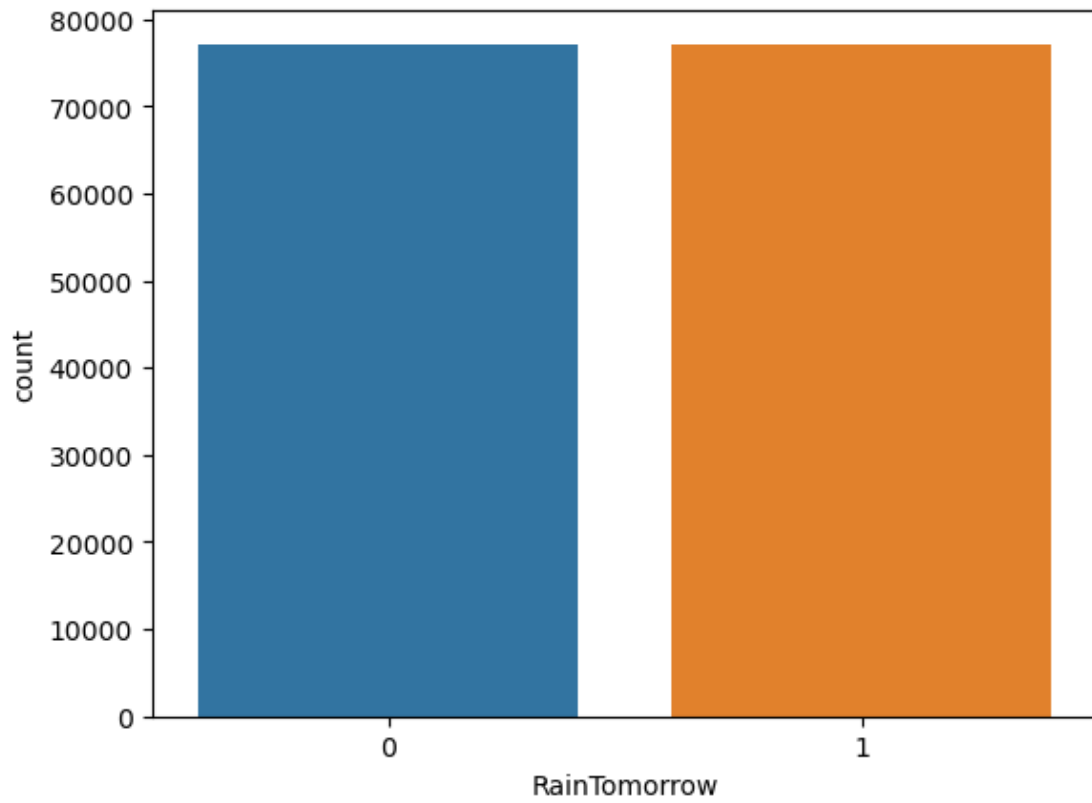
```
[ ]: plt.figure(figsize=(17,18))
cor = df_upsampled.corr()
sns.heatmap(cor, annot=True, cmap=plt.cm.Reds,fmt='.2f')
```

```
[ ]: <Axes: >
```

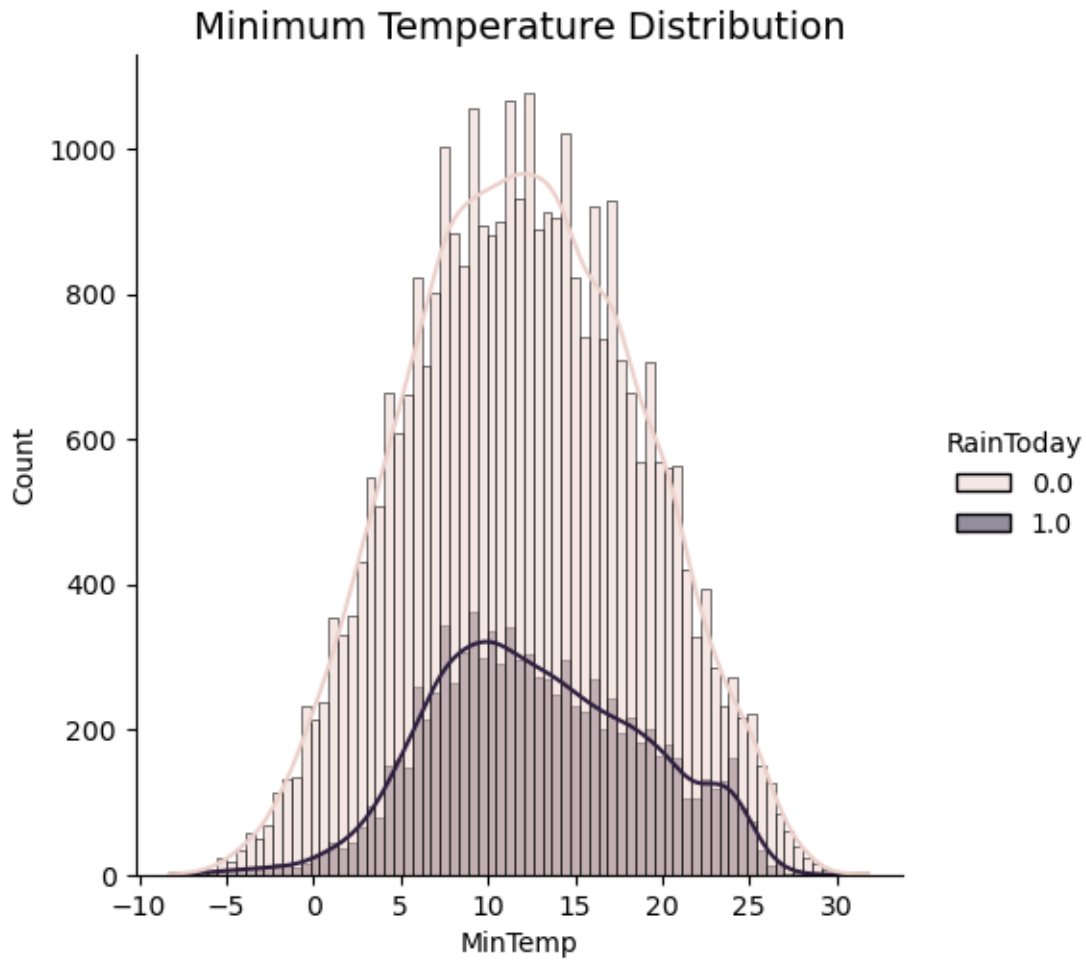


```
[ ]: sns.countplot(x=df_upsampled['RainTomorrow'])
```

```
[ ]: <Axes: xlabel='RainTomorrow', ylabel='count'>
```

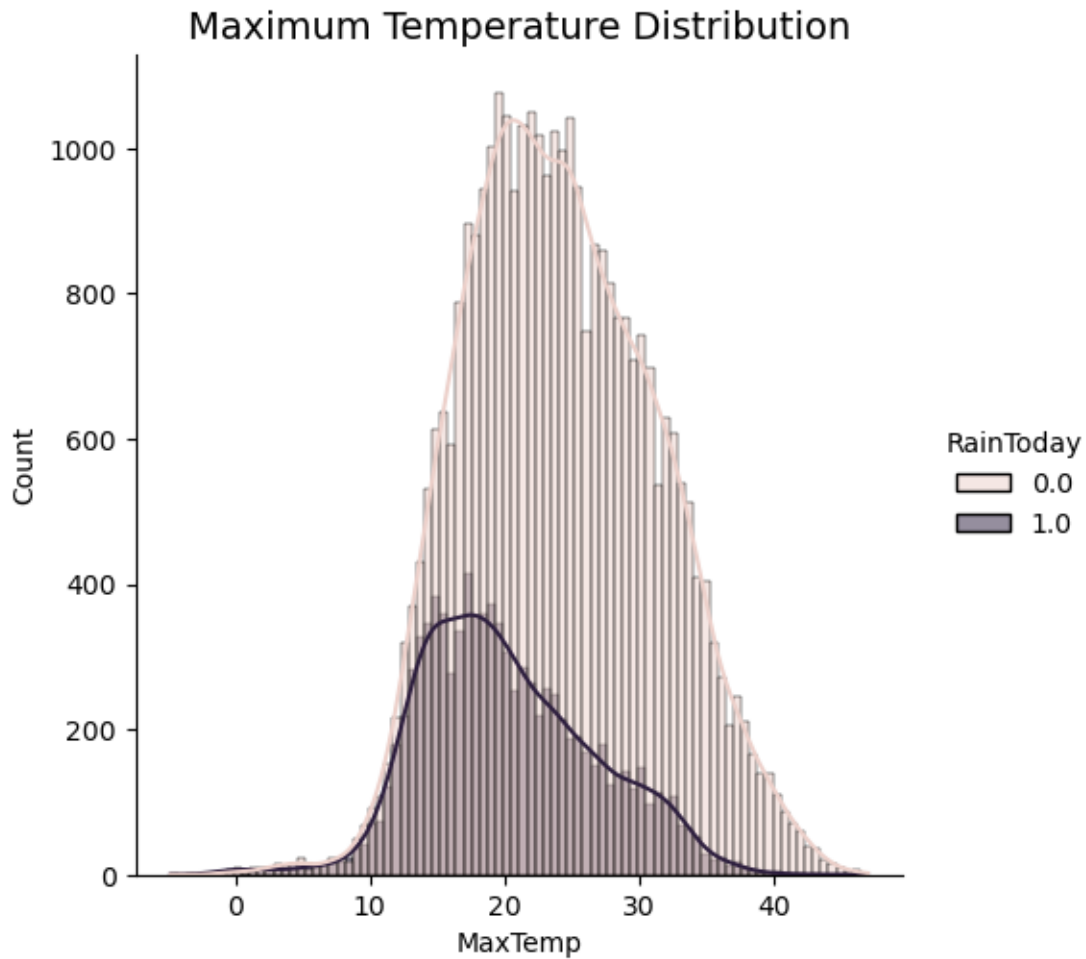


```
[ ]: sns.displot(data_test, x="MinTemp", hue='RainToday', kde=True)  
plt.title("Minimum Temperature Distribution", fontsize = 14)  
plt.show()
```

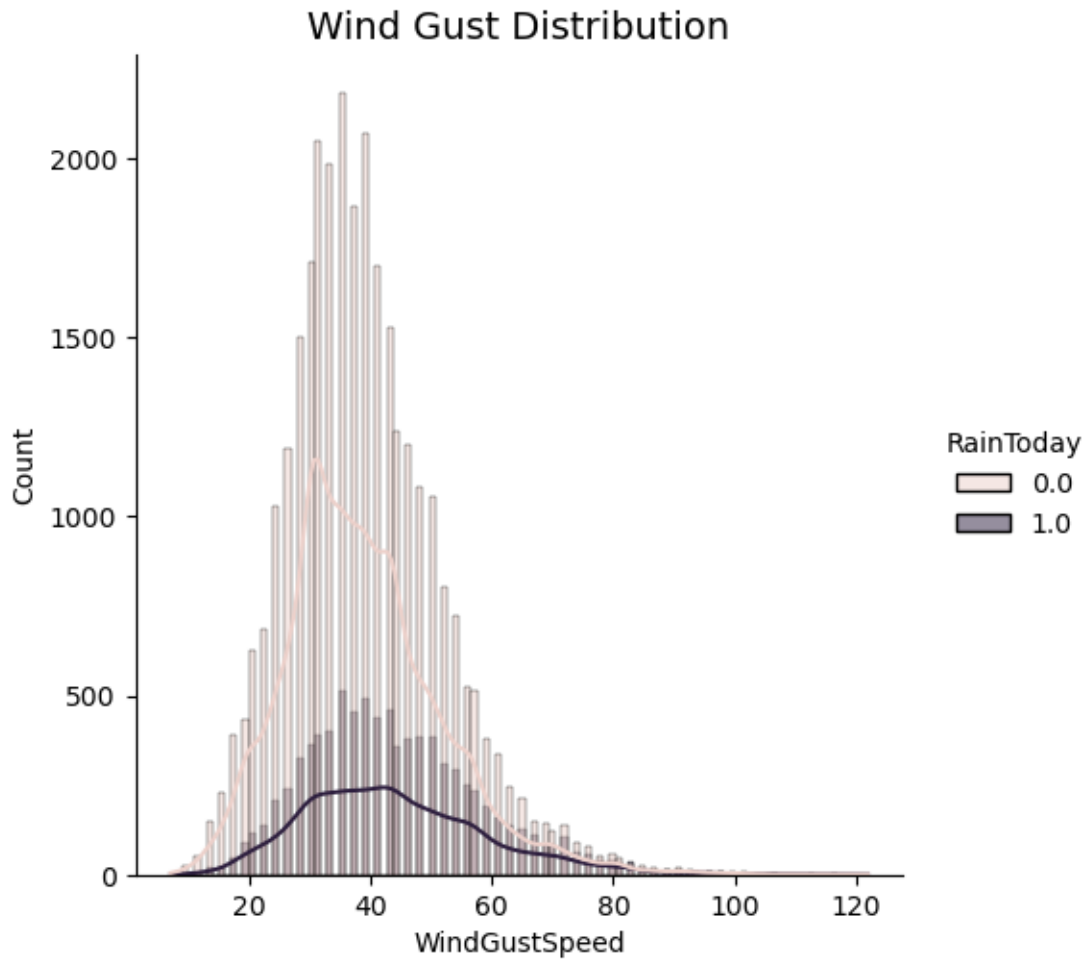
The analysis revealed that the minimum temperature range from -8.5 °C to 33.9 °C and the minimum temperature of 11 °C had the highest frequency in the data set.

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



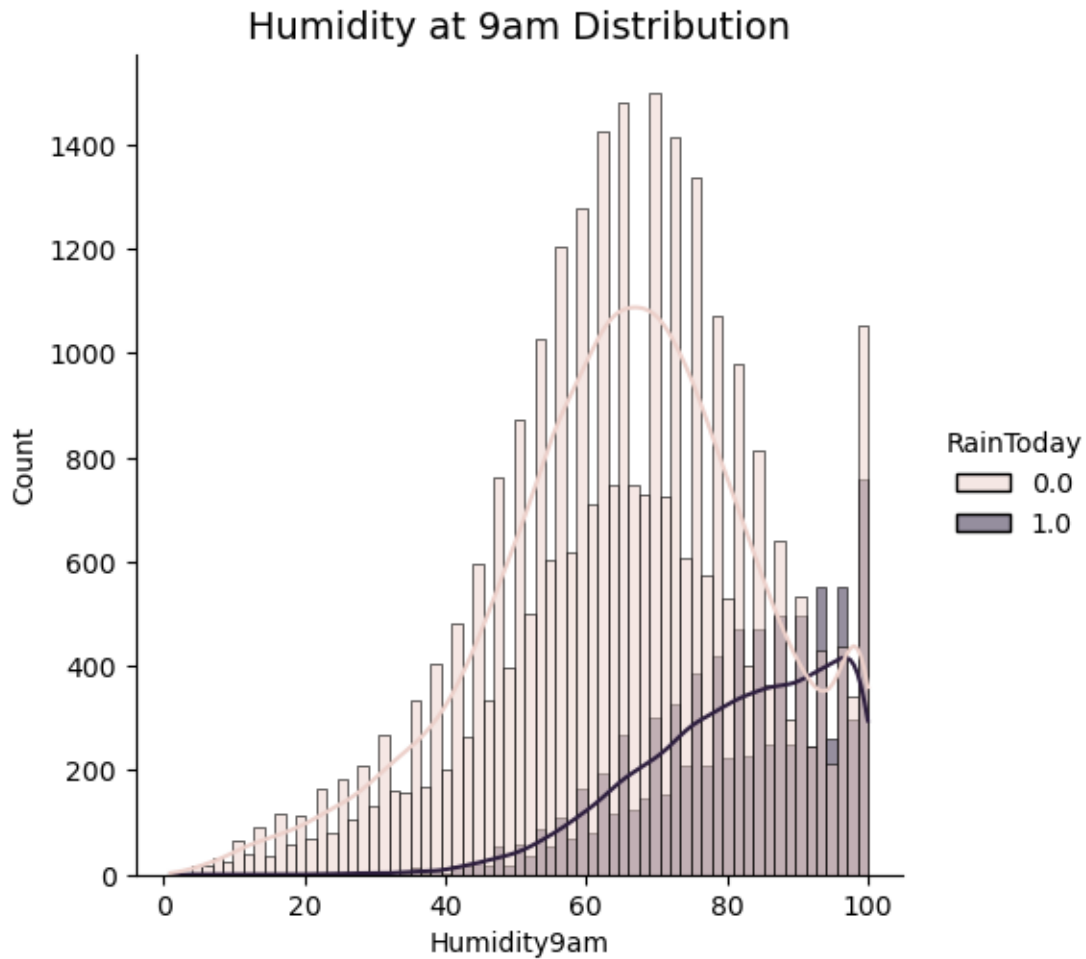
On the other hand, the maximum temperature range from -4.1 °C to 48.1 °C and the maximum temperature of 20 °C has the highest frequency in the data set.

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



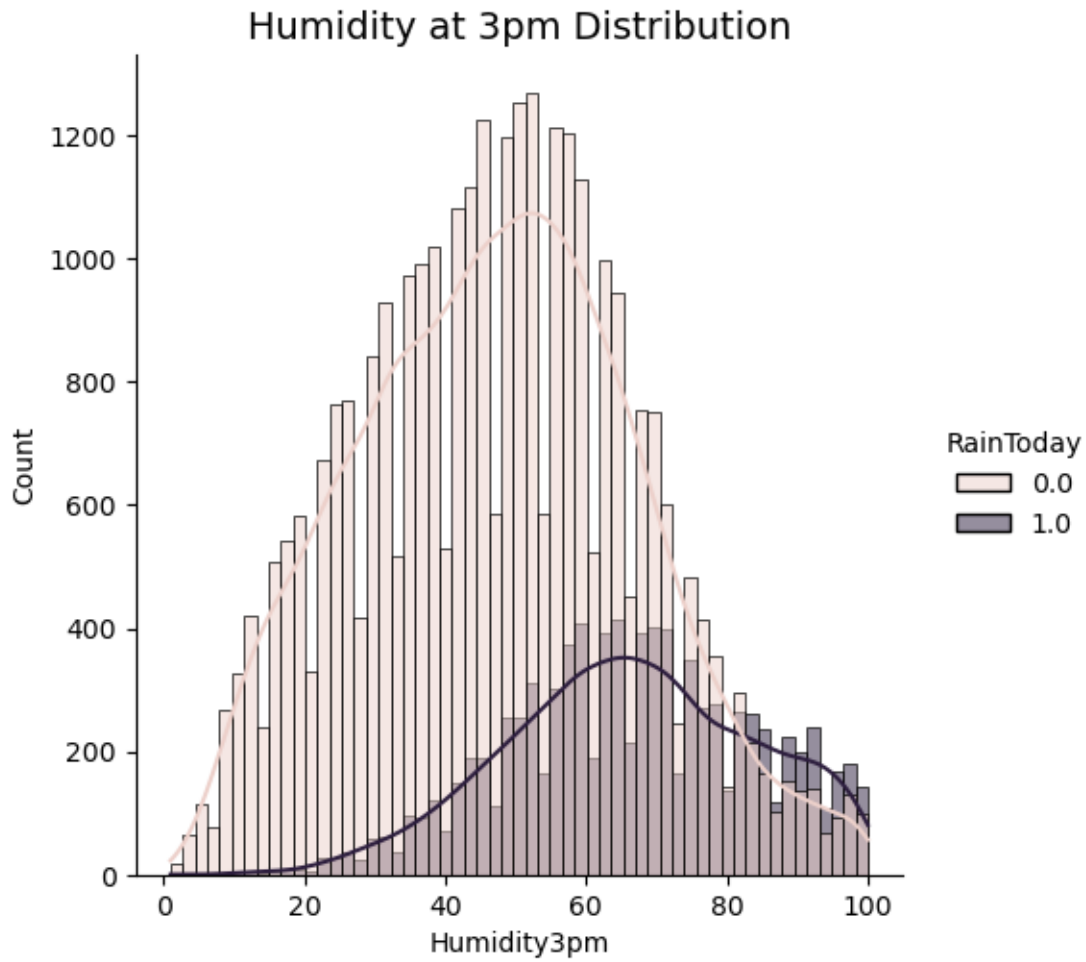
During the analysis, it was found that the range of gusts was from 6 main points to 135 main points and 39.98 main points of gusts had the highest frequency in the data set.

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



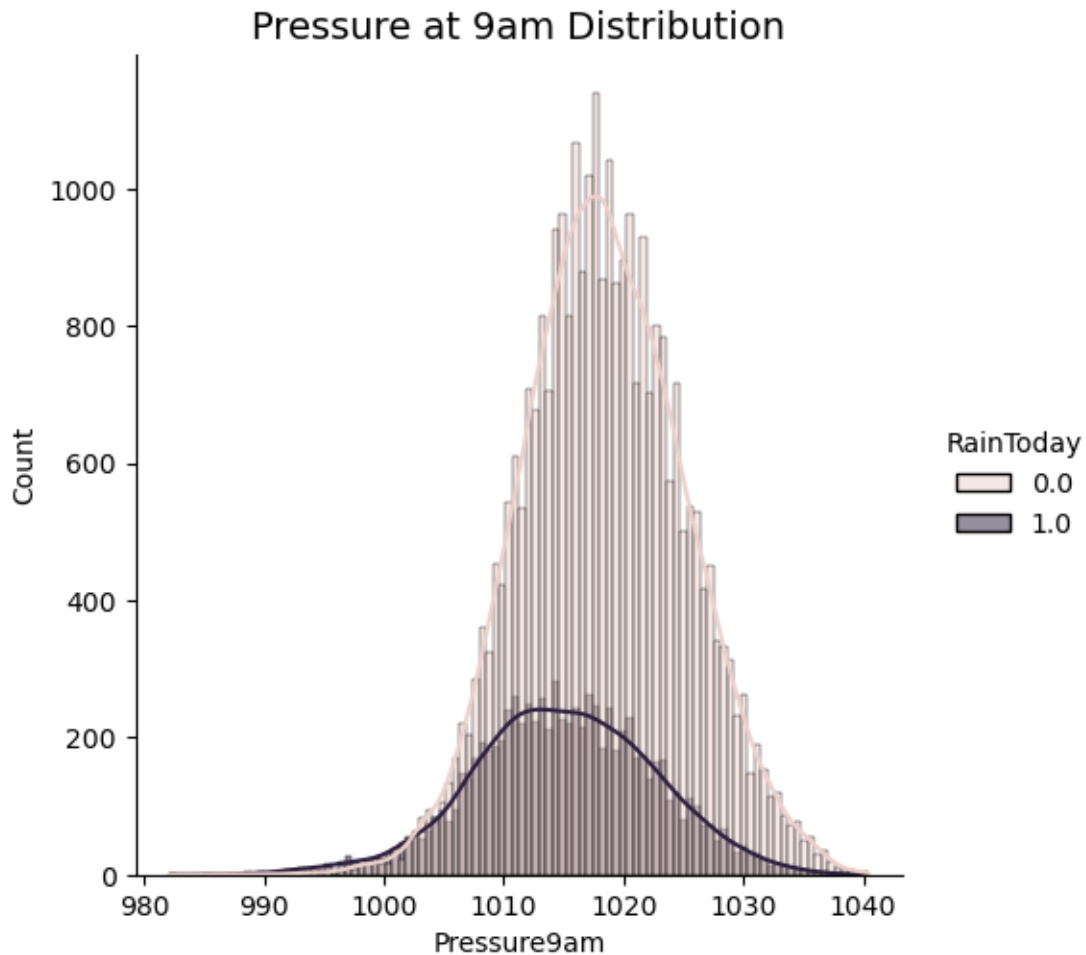
During the analysis, it was found that the range of air humidity at 9 o'clock in the morning. and at 3:00 p.m. from 0% to 100% and 99% humidity at 9:00 am. has the highest frequency in the data set.

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



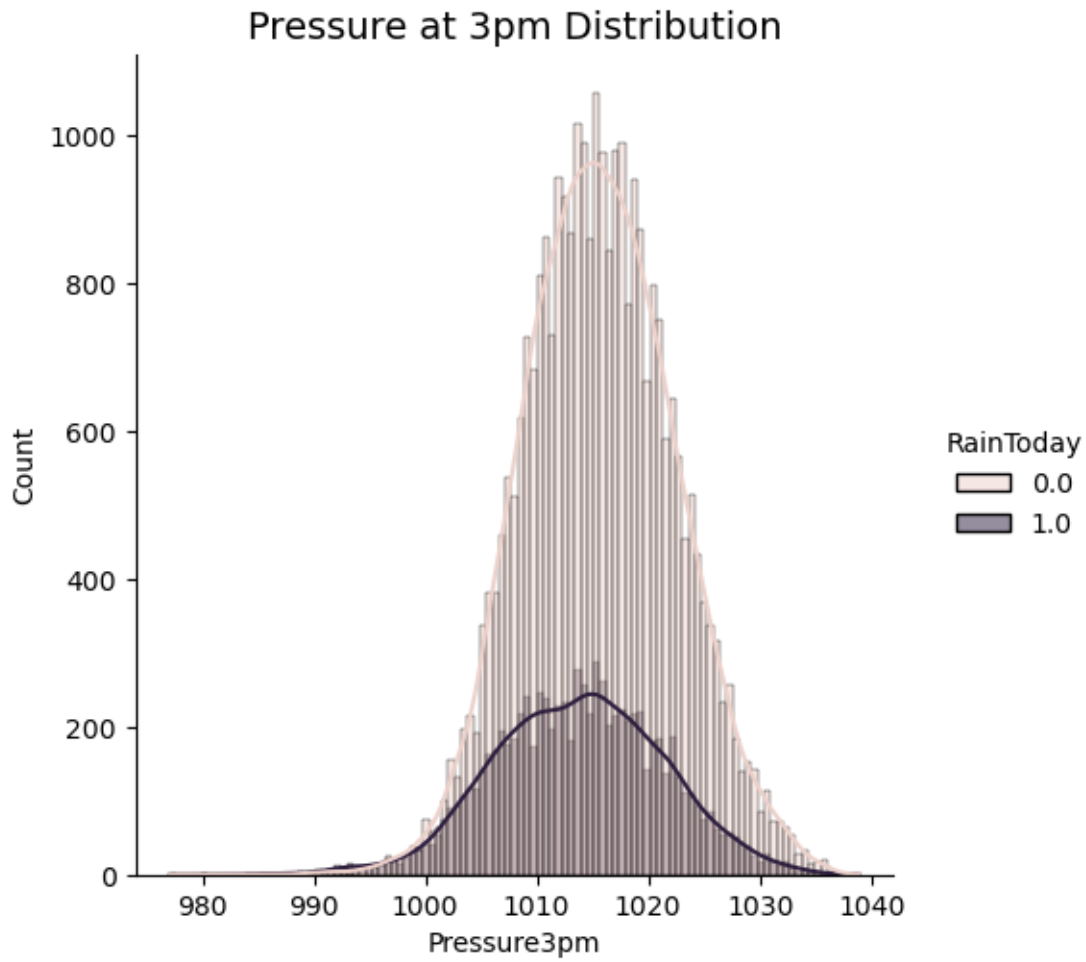
On the other hand, 54.43% of humidity at 3 pm has the highest frequency in the dataset.

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



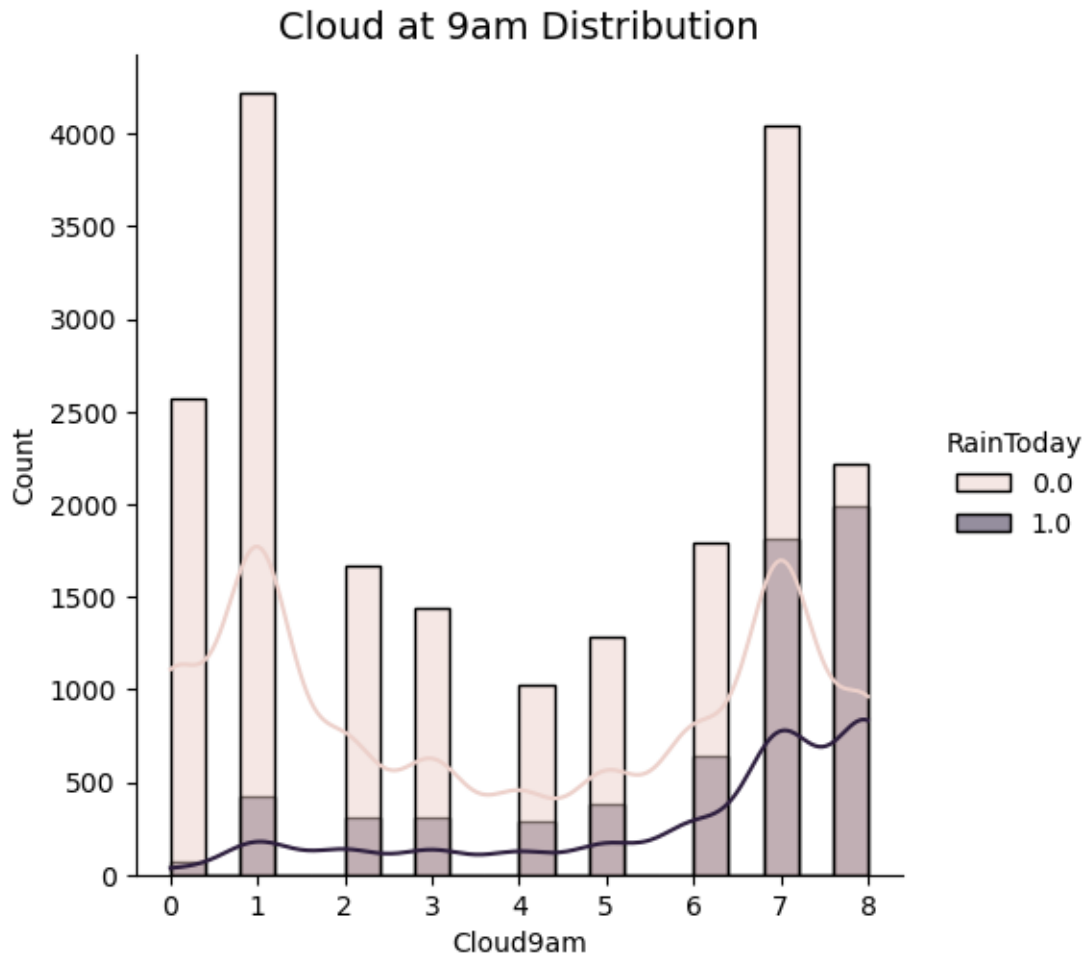
During the analysis, it was found that the range of wind pressure at 9 am. ranges from 980.5 hPa to 1042 hPa, and the pressure of 1017.68 hPa has the highest frequency in the data set.

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



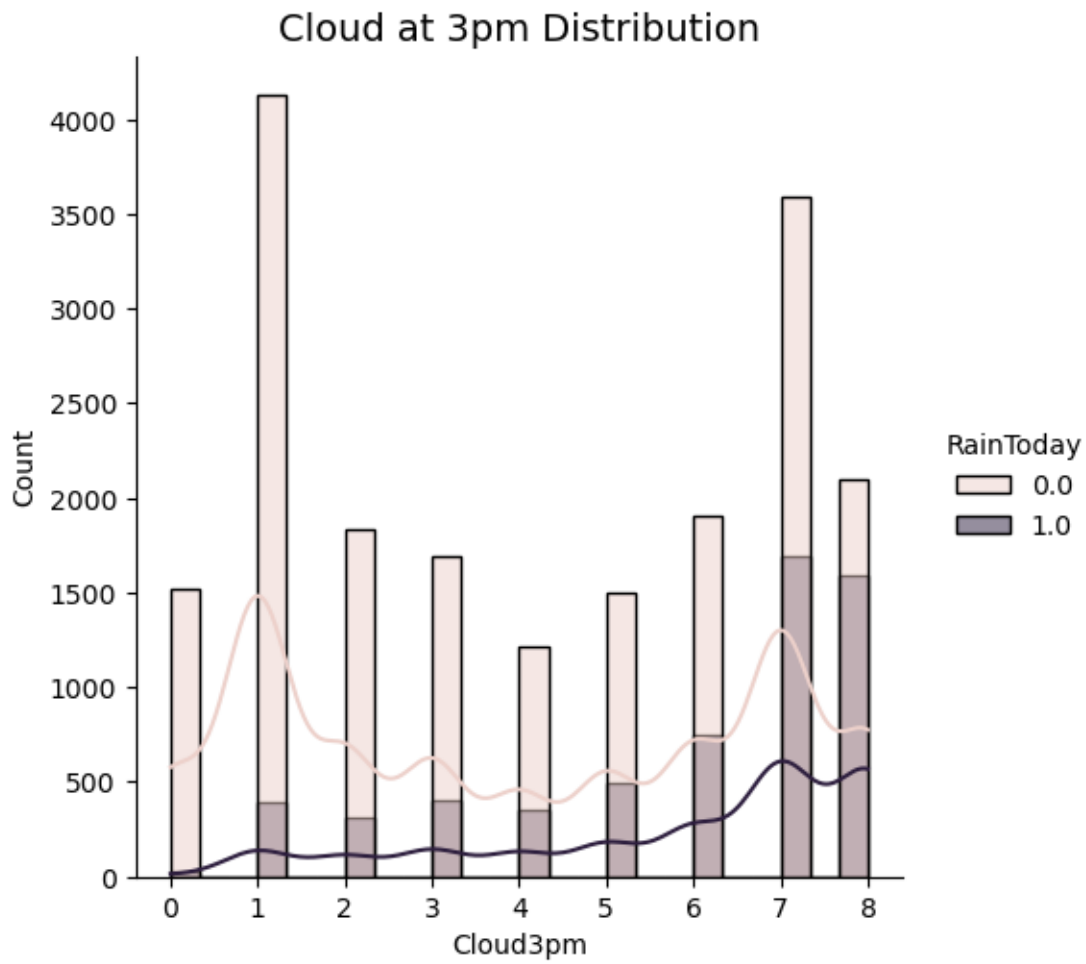
On the opposite hand, the variety of strain at three pm is from 978.2 hPa to 1039.6 hPa and 1015.28 hPa of strain has the very best frequency withinside the dataset.

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



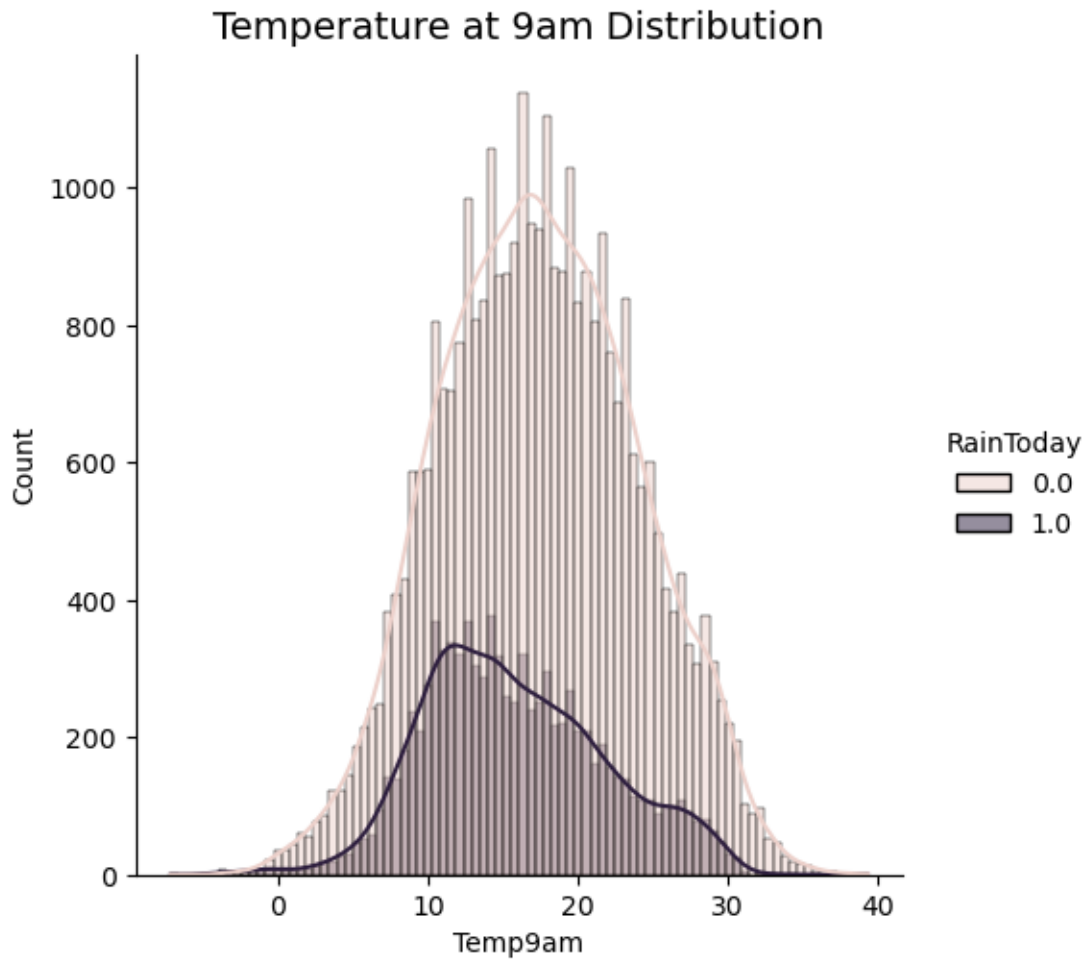
During the analysis, it's been determined that the variety of cloud at 9 am and 3 pm is from zero eighths to nine eighths and 4.44 eighths of cloud at nine am has the best frequency withinside the dataset.

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

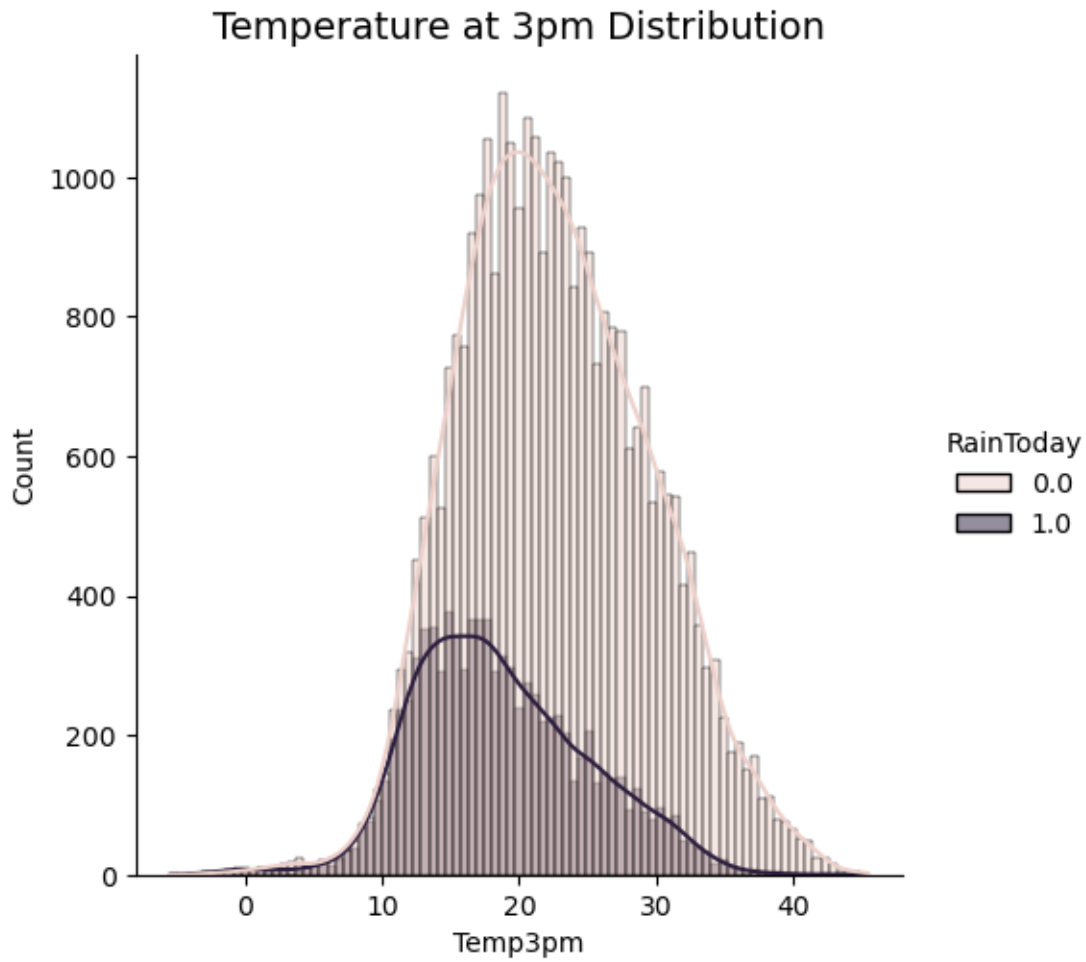
On the other hand, 4.52 eighths of cloud at 3 pm has the highest frequency in the dataset.

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



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

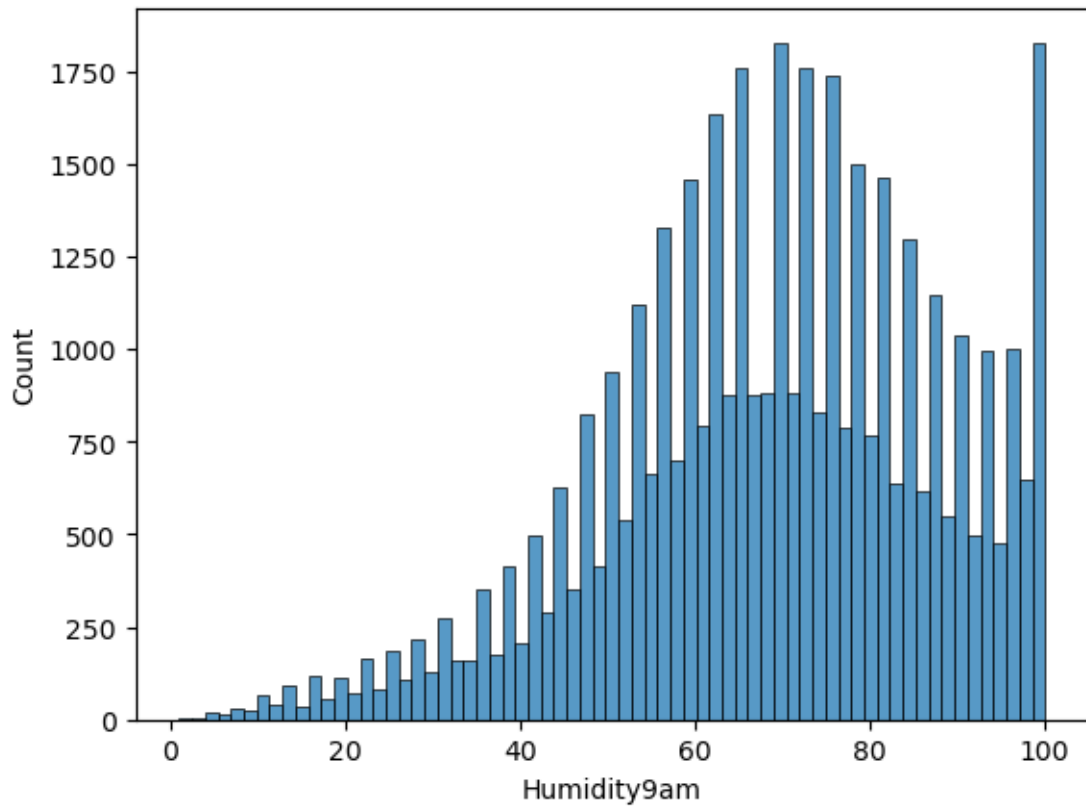
```
[ ]: sns.displot(data_test, x="Temp3pm", hue='RainToday', kde=True)
plt.title("Temperature at 3pm Distribution", fontsize = 14)
plt.show()
```



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

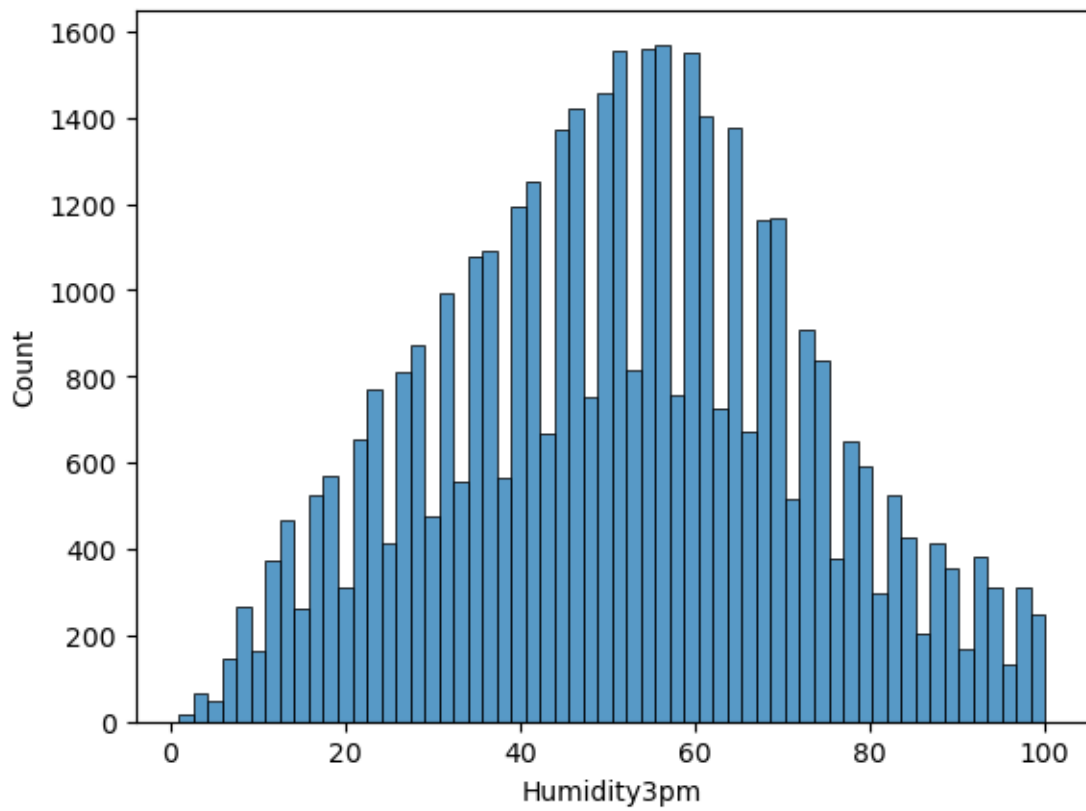
```
[ ]: df=data_test
sns.histplot(df['Humidity9am'])
```

```
[ ]: <Axes: xlabel='Humidity9am', ylabel='Count'>
```



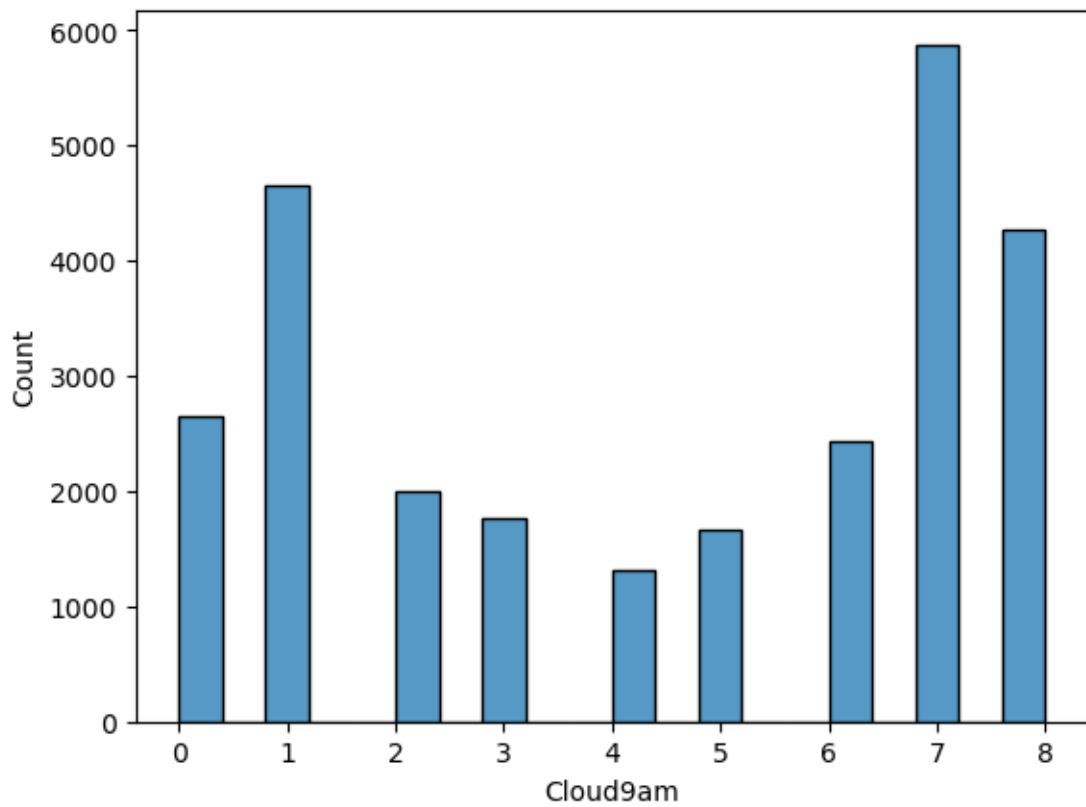
```
[ ]: sns.histplot(df['Humidity3pm'])
```

```
[ ]: <Axes: xlabel='Humidity3pm', ylabel='Count'>
```



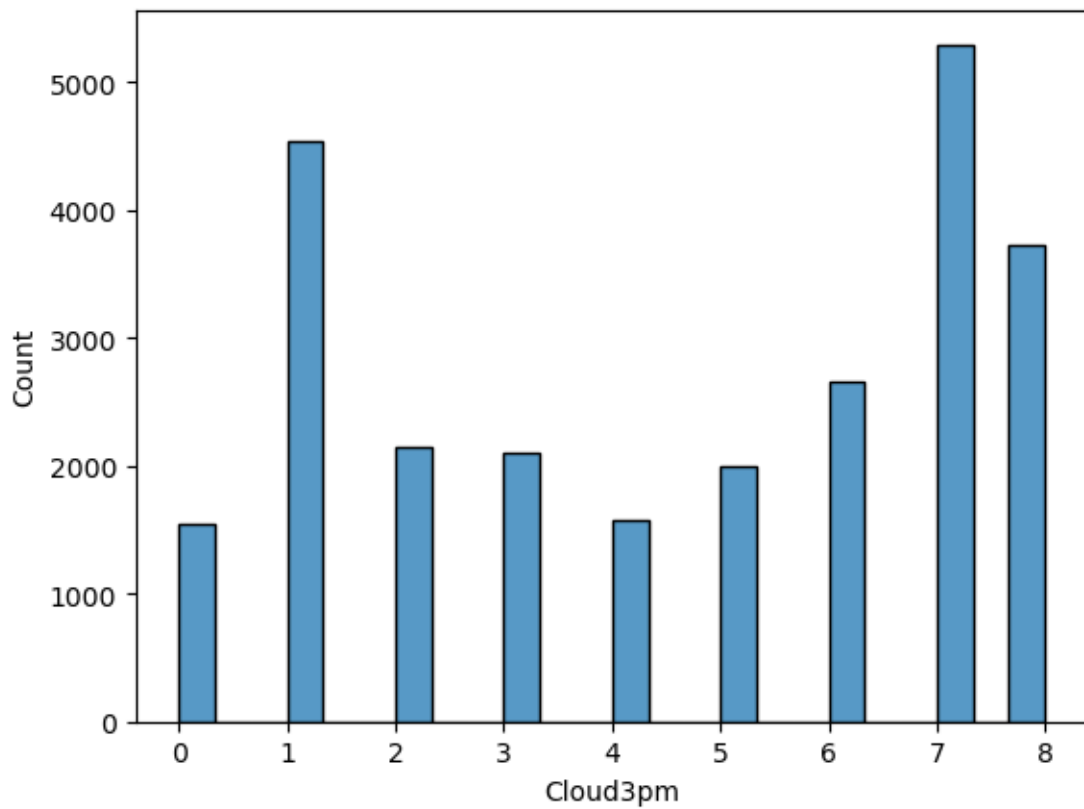
```
[ ]: sns.histplot(df['Cloud9am'])
```

```
[ ]: <Axes: xlabel='Cloud9am', ylabel='Count'>
```



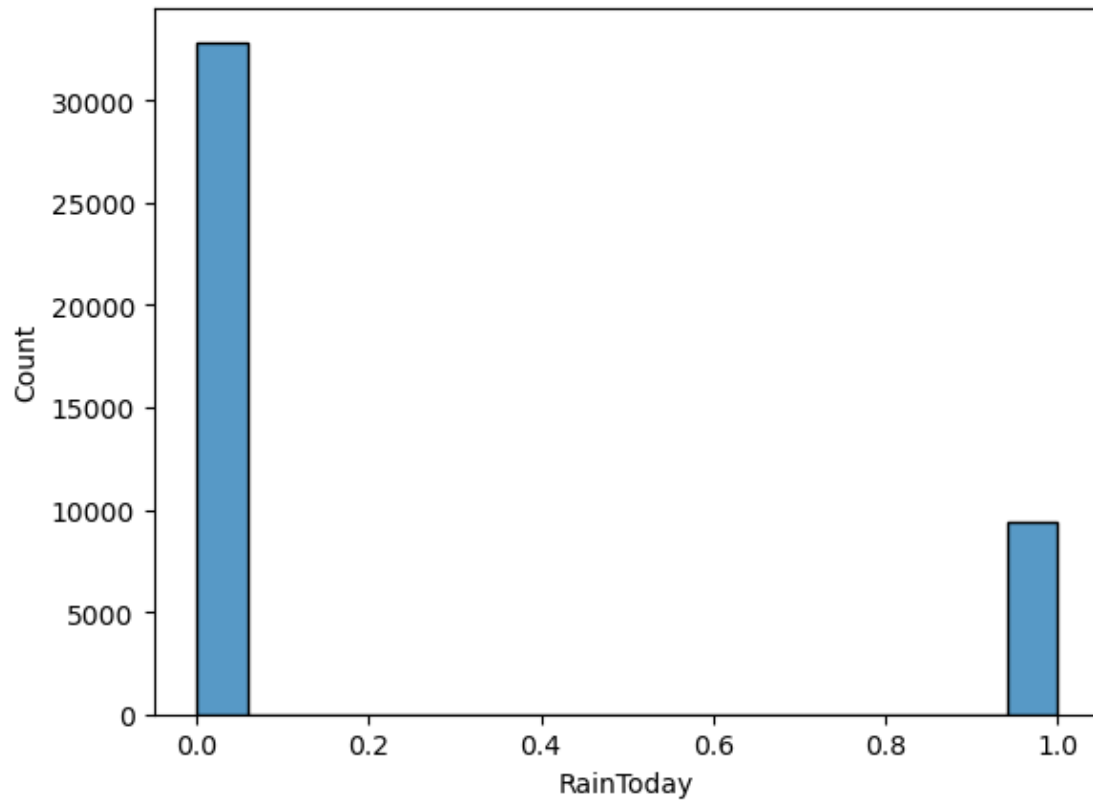
```
[ ]: sns.histplot(df['Cloud3pm'])
```

```
[ ]: <Axes: xlabel='Cloud3pm', ylabel='Count'>
```



```
[ ]: sns.histplot(df['RainToday'])
```

```
[ ]: <Axes: xlabel='RainToday', ylabel='Count'>
```

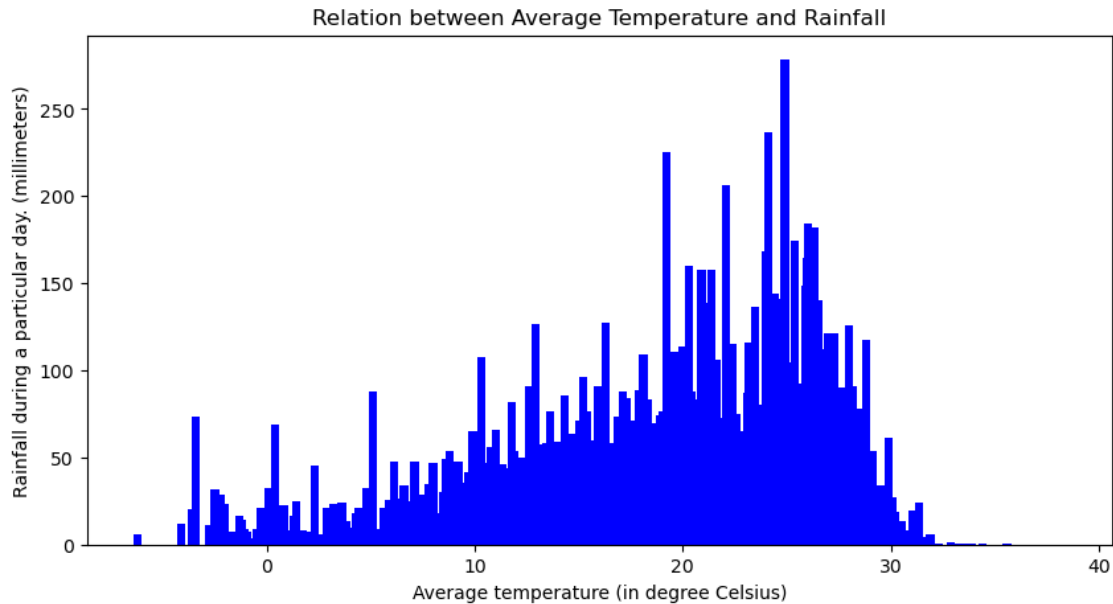


```
[ ]: x = list(data_test.MeanTemp)
      y = list(data_test.Rainfall)

      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()
```

```
[ ]: import seaborn as sns
import plotly.express as px

figure = px.scatter(data_frame = data_test, 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.groupby(['Location'])[['WindSpeed9am',
↪ 'WindSpeed3pm']].mean()
windspeed_weather_df = windspeed_weather_df.reset_index()
windspeed_weather_df.head()
```

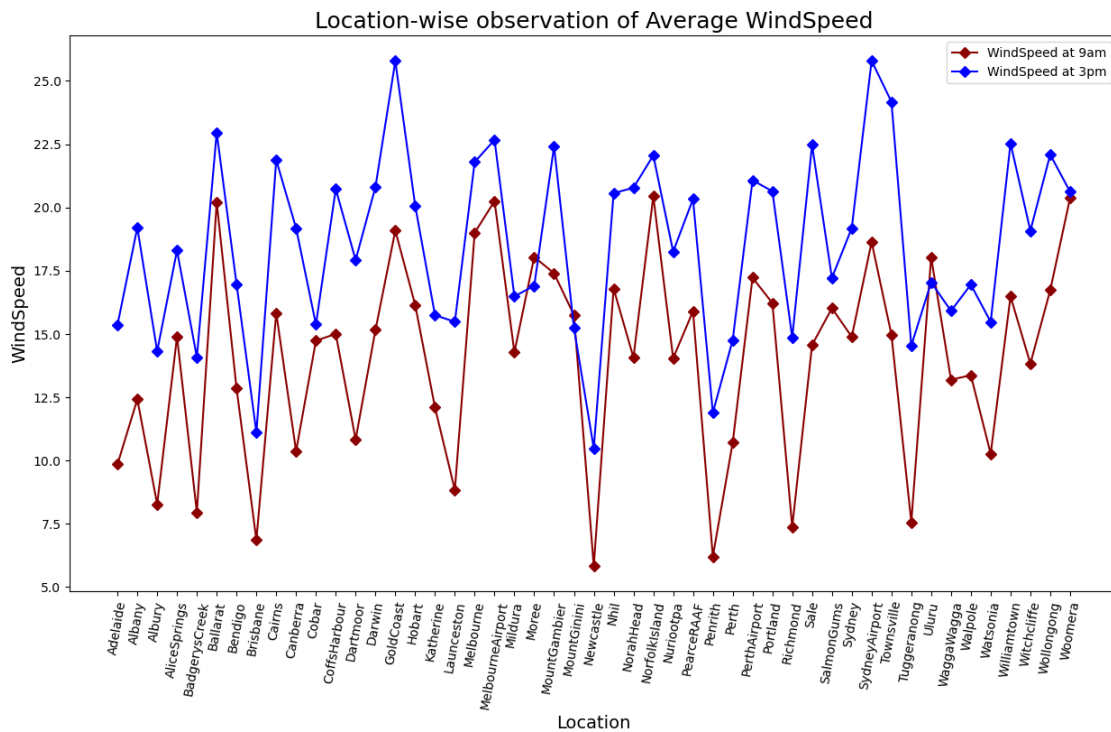
```
[ ]:
      Location  WindSpeed9am  WindSpeed3pm
0    Adelaide      9.849616     15.354555
1      Albany     12.418605     19.203297
2      Albury      8.274194     14.317552
3  AliceSprings     14.890231     18.300768
4  BadgerysCreek      7.952273     14.075964
```

```
[ ]: 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()
```



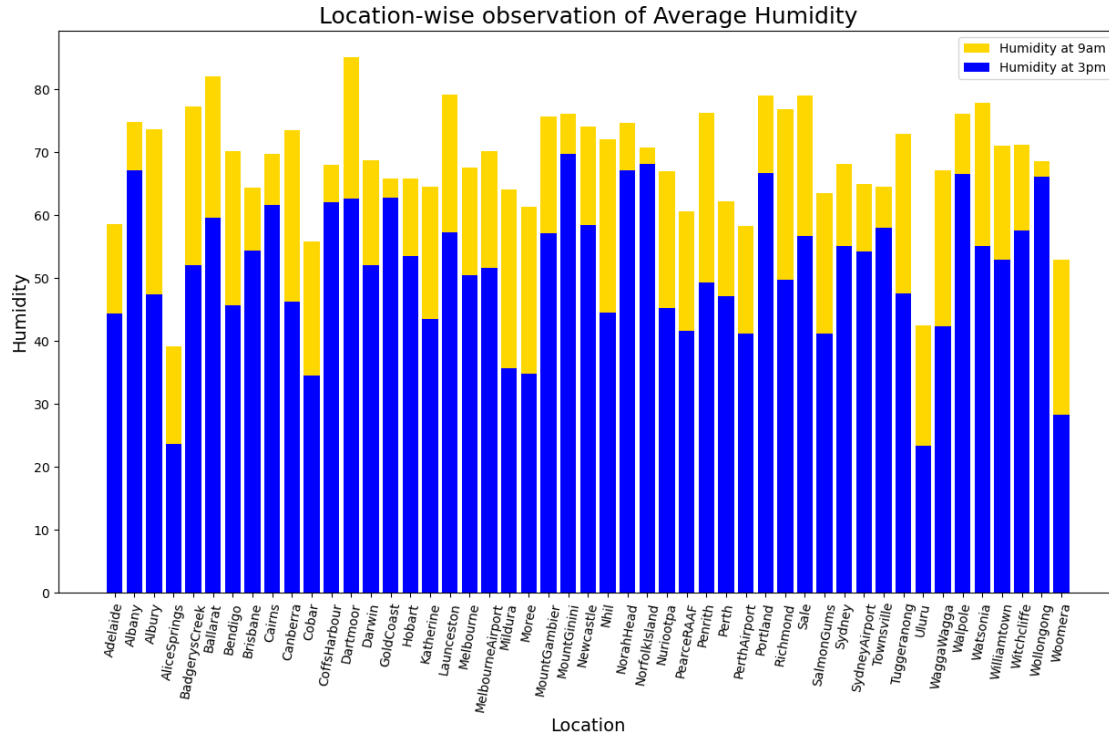
From this analysis, the wind speed at Melbourne Airport was determined to be the highest at 9:00 AM. with a speed of 20.29 km/h. On the other hand, at 3 o'clock in the afternoon. The highest wind speed is on the Gold Coast of Australia with 25.77 km/h. It can be concluded that the wind speed at 15:00. 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.groupby(['Location'])[['Humidity9am',  
↪ 'Humidity3pm']].mean()  
humidity_weather_df = humidity_weather_df.reset_index()  
humidity_weather_df.head()
```

```
[ ]:      Location  Humidity9am  Humidity3pm  
0      Adelaide    58.539560    44.398463  
1        Albany    74.787592    67.116848  
2        Albury    73.603926    47.346774  
3  AliceSprings    39.140351    23.670692  
4  BadgerysCreek    77.174603    52.029545
```

```
[ ]: 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()
```



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 Ginnee 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.groupby(['Location'])[['Pressure9am',
    ↳ 'Pressure3pm']].mean()
pressure_weather_df = pressure_weather_df.reset_index()
pressure_weather_df.head()
```

```
[ ]:      Location  Pressure9am  Pressure3pm
0      Adelaide  1018.765897  1016.758901
1        Albany  1018.092685  1016.322547
2        Albury  1018.330725  1015.743894
3  AliceSprings  1016.907675  1013.070362
4  BadgerysCreek 1018.159763  1015.329858
```

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

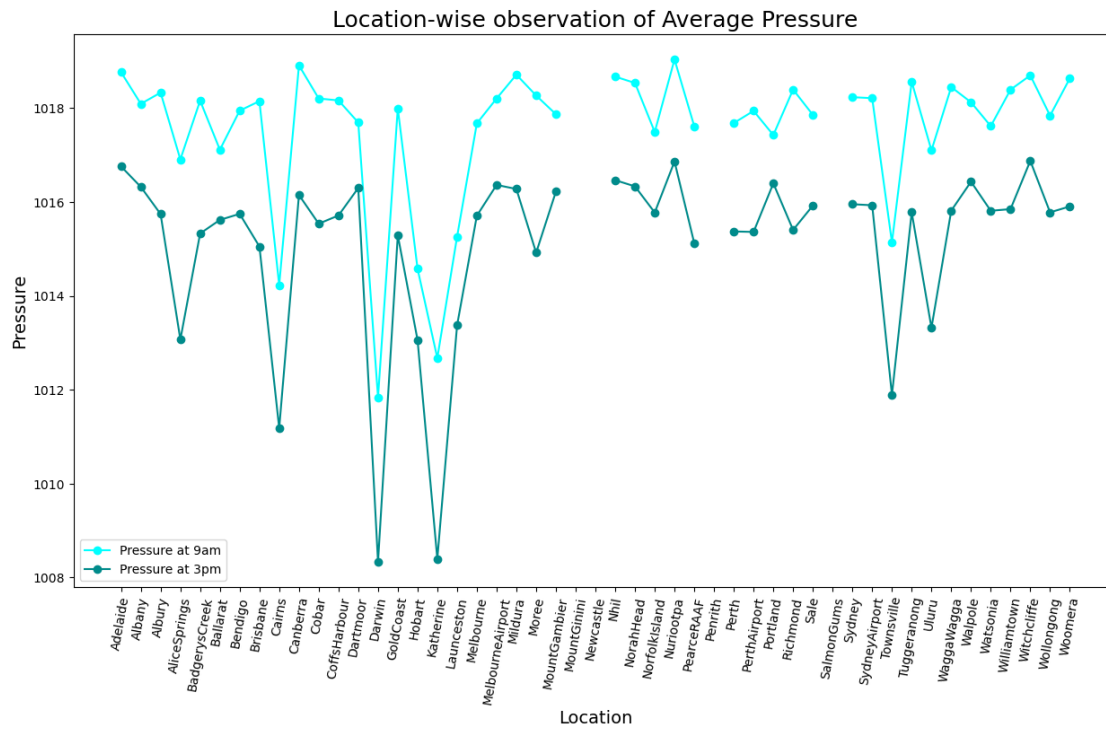
      plt.figure(figsize = (15, 8))
```

```

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

```

```
[ ]: 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

```
[ ]: 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[column][(data_test[column] > 0) &
    ↪ (data_test[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:

```
[12.0, 16.0, 10.0, 7.0, 8.0, 8.0, 4.0, 9.0, 12.0, 16.0, 3.0, 3.0, 1.0, 5.0,
10.0, 1.0, 9.0, 15.0, 15.0, 17.0, 11.0, 5.0, 1.0, 3.0, 5.0, 5.0, 4.0, 9.0, 9.0,
17.0, 7.0, 4.0, 6.0, 6.0, 10.0, 2.0, 8.0, 5.0, 7.0, 9.0, 12.0, 17.0, 17.0, 14.0,
19.0, 13.0, 7.0, 1.0, 6.0, 12.0, 15.0, 18.0, 12.0, 26.0, 18.0, 19.0, 10.0, 1.0,
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1.0, 2.0, 56.0, 17.0, 17.0, 6.0, 4.0, 2.0, 5.0, 23.0, 4.0, 31.0, 3.0, 1.0,
106.0, 91.0, 1.0, 3.0, 1.0, 29.0, 3.0, 7.0, 4.0, 5.0, 11.0, 6.0, 1.0, 2.0, 1.0,
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225.0, 3.0, 3.0, 7.0, 2.0, 2.0, 4.0, 11.0, 15.0, 33.0, 5.0, 47.0, 1.0, 1.0, 4.0,
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7.0, 2.0, 38.0, 1.0, 1.0, 12.0, 118.0, 30.0, 6.0, 10.0, 14.0, 13.0, 37.0, 8.0,
4.0, 9.0, 2.0, 1.0, 1.0, 33.0, 2.0, 4.0, 1.0, 1.0, 3.0, 35.0, 1.0, 17.0, 23.0,
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39.0, 19.0, 4.0, 4.0, 2.0, 1.0, 2.0, 5.0, 8.0, 2.0, 5.0, 6.0, 4.0, 5.0, 1.0,
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4.0, 5.0, 1.0, 1.0, 2.0, 1.0, 2.0, 4.0, 1.0, 5.0, 3.0, 1.0, 1.0, 2.0, 48.0, 1.0,
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2.0, 3.0, 7.0, 1.0, 1.0, 16.0, 7.0, 2.0, 6.0, 4.0, 4.0, 6.0, 2.0, 8.0, 2.0,
17.0, 11.0, 7.0, 4.0, 3.0, 1.0, 3.0, 2.0, 12.0, 2.0, 1.0, 9.0, 2.0, 2.0, 1.0,
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3.0, 1.0, 5.0, 2.0, 2.0, 8.0, 2.0, 6.0, 2.0, 5.0, 2.0, 3.0, 7.0, 2.0, 1.0, 2.0,
1.0, 5.0, 6.0, 9.0, 6.0, 3.0, 18.0, 1.0, 1.0, 1.0, 1.0, 5.0, 1.0, 2.0, 1.0, 7.0,
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35.0, 7.0, 5.0, 22.0, 1.0, 5.0, 2.0, 4.0, 1.0, 1.0, 7.0, 4.0, 13.0, 18.0, 2.0,
3.0, 5.0, 1.0, 1.0, 9.0, 2.0, 2.0, 1.0, 8.0, 4.0, 6.0, 2.0, 1.0, 5.0, 1.0, 1.0,
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2.0, 1.0, 1.0, 1.0, 89.0, 35.0, 8.0, 18.0, 20.0, 1.0, 13.0, 12.0, 64.0, 5.0,
2.0, 5.0, 3.0, 6.0, 3.0, 1.0, 1.0, 8.0, 56.0, 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, 64.0, 9.0, 115.0, 126.0,
2.0, 21.0, 1.0, 158.0, 10.0, 1.0, 16.0, 4.0, 1.0, 5.0, 1.0, 2.0, 1.0, 20.0, 4.0,
3.0, 2.0, 5.0, 5.0, 2.0, 2.0, 34.0, 23.0, 2.0, 2.0, 12.0, 1.0, 53.0, 71.0, 37.0,
22.0, 18.0, 1.0, 14.0, 3.0, 1.0, 9.0, 9.0, 38.0, 10.0, 2.0, 7.0, 1.0, 30.0, 7.0,
25.0, 2.0, 23.0, 1.0, 2.0, 2.0, 65.0, 2.0, 5.0, 6.0, 8.0, 1.0, 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, 1.0,
3.0, 1.0, 1.0, 1.0, 52.0, 25.0, 4.0, 12.0, 1.0, 49.0, 25.0, 4.0, 1.0, 3.0, 1.0,
4.0, 5.0, 22.0, 2.0, 1.0, 1.0, 18.0, 3.0, 2.0, 3.0, 9.0, 15.0, 5.0, 1.0, 34.0,
5.0, 1.0, 1.0, 4.0, 1.0, 1.0, 1.0, 1.0, 2.0, 6.0, 1.0, 7.0, 6.0, 1.0, 4.0, 24.0,
1.0, 6.0, 3.0, 1.0, 5.0, 11.0, 20.0, 8.0, 16.0, 4.0, 1.0, 1.0, 14.0, 21.0, 29.0,
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41.0, 1.0, 2.0, 1.0, 9.0, 53.0, 7.0, 10.0, 10.0, 3.0, 8.0, 1.0, 2.0, 21.0, 4.0,
3.0, 4.0, 3.0, 1.0, 5.0, 1.0, 1.0, 5.0, 8.0, 5.0, 3.0, 7.0, 23.0, 4.0, 11.0,
1.0, 1.0, 1.0, 8.0, 34.0, 3.0, 1.0, 2.0, 2.0, 38.0, 1.0, 6.0, 10.0, 1.0, 21.0,
1.0, 2.0, 6.0, 6.0, 4.0, 1.0, 5.0, 12.0, 1.0, 5.0, 3.0, 1.0, 2.0, 2.0, 1.0, 2.0,
8.0, 4.0, 2.0, 19.0, 1.0, 1.0, 11.0, 2.0, 1.0, 1.0, 23.0, 1.0, 8.0, 44.0, 38.0,
3.0, 7.0, 26.0, 1.0, 4.0, 8.0, 18.0, 13.0, 3.0, 1.0, 1.0, 1.0, 14.0, 1.0, 8.0,
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37.0, 1.0, 1.0, 5.0, 28.0, 3.0, 1.0, 1.0, 2.0, 7.0, 2.0, 1.0, 1.0, 3.0, 5.0,
3.0, 8.0, 12.0, 4.0, 9.0, 11.0, 10.0, 2.0, 7.0, 2.0, 5.0, 4.0, 1.0, 2.0, 34.0,
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7.0, 2.0, 4.0, 10.0, 22.0, 1.0, 5.0, 45.0, 33.0, 1.0, 8.0, 4.0, 2.0, 1.0, 2.0,
6.0, 4.0, 5.0, 12.0, 7.0, 1.0, 16.0, 5.0, 10.0, 22.0, 17.0, 6.0, 25.0, 14.0,
16.0, 11.0, 15.0, 1.0, 1.0, 1.0, 2.0, 1.0, 7.0, 9.0, 6.0, 5.0, 3.0, 3.0, 6.0,
3.0, 3.0, 4.0, 2.0, 10.0, 4.0, 6.0, 4.0, 5.0, 6.0, 1.0, 12.0, 1.0, 3.0, 8.0,
12.0, 8.0, 25.0, 57.0, 15.0, 16.0, 1.0, 7.0, 3.0, 5.0, 3.0, 1.0, 8.0, 6.0, 6.0,
1.0, 20.0, 2.0, 14.0, 1.0, 10.0, 9.0, 1.0, 6.0, 14.0, 5.0, 32.0, 1.0, 1.0, 1.0,
9.0, 2.0, 18.0, 26.0, 4.0, 3.0, 5.0, 7.0, 1.0, 16.0, 1.0, 1.0, 1.0, 2.0, 2.0,
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2.0, 7.0, 1.0, 1.0, 1.0, 3.0, 1.0, 2.0, 7.0, 2.0, 30.0, 25.0, 6.0, 1.0, 37.0,
10.0, 1.0, 1.0, 13.0, 6.0, 1.0, 24.0, 24.0, 1.0, 2.0, 3.0, 19.0, 5.0, 15.0,
23.0, 9.0, 7.0, 5.0, 10.0, 5.0, 2.0, 3.0, 1.0, 16.0, 22.0, 3.0, 3.0, 4.0, 5.0,
4.0, 15.0, 3.0, 12.0, 22.0, 6.0, 14.0, 1.0, 1.0, 1.0, 4.0, 1.0, 1.0, 3.0, 33.0,
2.0, 1.0, 5.0, 1.0, 3.0, 6.0, 4.0, 2.0, 6.0, 2.0, 6.0, 29.0, 2.0, 4.0, 1.0, 1.0,
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1.0, 25.0, 1.0, 25.0, 4.0, 16.0, 31.0, 8.0, 3.0, 6.0, 26.0, 2.0, 5.0, 1.0, 12.0,
1.0, 8.0, 10.0, 1.0, 5.0, 6.0, 6.0, 3.0, 1.0, 20.0, 1.0, 9.0, 24.0, 18.0, 11.0,
5.0, 8.0, 8.0, 2.0, 5.0, 4.0, 3.0, 1.0, 40.0, 1.0, 3.0, 2.0, 1.0, 1.0, 15.0,
13.0, 1.0, 11.0, 1.0, 3.0, 88.0, 2.0, 20.0, 10.0, 8.0, 26.0, 8.0, 23.0, 4.0,
4.0, 1.0, 7.0, 14.0, 2.0, 33.0, 10.0, 3.0, 4.0, 36.0, 1.0, 5.0, 15.0, 3.0, 4.0,
21.0, 2.0, 1.0, 3.0, 4.0, 3.0, 2.0, 2.0, 28.0, 50.0, 1.0, 1.0, 15.0, 1.0, 2.0,
4.0, 8.0, 2.0, 56.0, 18.0, 9.0, 13.0, 8.0, 9.0, 5.0, 1.0, 91.0, 16.0, 1.0, 40.0,
1.0, 3.0, 1.0, 13.0, 8.0, 1.0, 2.0, 11.0, 9.0, 1.0, 2.0, 11.0, 9.0, 1.0, 5.0,
17.0, 2.0, 5.0, 10.0, 6.0, 8.0, 22.0, 24.0, 4.0, 9.0, 33.0, 17.0, 7.0, 25.0,
15.0, 84.0, 3.0, 14.0, 1.0, 34.0, 6.0, 24.0, 2.0, 6.0, 2.0, 13.0, 8.0, 35.0,
9.0, 12.0, 7.0, 6.0, 5.0, 39.0, 16.0, 2.0, 6.0, 46.0, 24.0, 50.0, 80.0, 61.0,
24.0, 35.0, 39.0, 56.0, 41.0, 52.0, 31.0, 39.0, 33.0, 39.0, 61.0, 98.0, 31.0,
37.0, 28.0, 35.0, 37.0, 46.0, 41.0, 31.0, 43.0, 44.0, 57.0, 50.0, 39.0, 22.0,
48.0, 28.0, 43.0, 20.0, 63.0, 24.0, 17.0, 19.0, 20.0, 35.0, 52.0, 19.0, 20.0,
31.0, 44.0, 13.0, 13.0, 24.0, 46.0, 31.0, 19.0, 17.0, 13.0, 24.0, 33.0, 22.0,
24.0, 39.0, 44.0, 31.0, 22.0, 24.0, 20.0, 24.0, 15.0, 63.0, 59.0, 39.0, 24.0,
43.0, 41.0, 39.0, 33.0, 43.0, 50.0, 44.0, 56.0, 61.0, 43.0, 35.0, 30.0, 33.0,
22.0, 39.0, 30.0, 63.0, 26.0, 19.0, 46.0, 44.0, 22.0, 28.0, 24.0, 37.0, 61.0,
50.0, 39.0, 39.0, 43.0, 28.0, 31.0, 33.0, 56.0, 41.0, 57.0, 39.0, 35.0, 44.0,
44.0, 43.0, 37.0, 46.0, 31.0, 31.0, 46.0, 39.0, 28.0, 19.0, 39.0, 46.0, 46.0,
48.0, 44.0, 24.0, 46.0, 57.0, 41.0, 17.0, 46.0, 37.0, 15.0, 22.0, 39.0, 43.0,
15.0, 28.0, 13.0, 26.0, 11.0, 26.0, 19.0, 17.0, 11.0, 11.0, 52.0, 24.0, 20.0,
35.0, 52.0, 11.0, 50.0, 15.0, 28.0, 13.0, 48.0, 17.0, 19.0, 20.0, 15.0, 15.0,
30.0, 39.0, 46.0, 31.0, 67.0, 50.0, 20.0, 33.0, 72.0, 30.0, 26.0, 24.0, 28.0,
20.0, 24.0, 46.0, 33.0, 35.0, 35.0, 44.0, 35.0, 31.0, 46.0, 46.0, 41.0, 61.0,
31.0, 44.0, 24.0, 50.0, 43.0, 46.0, 43.0, 46.0, 35.0, 37.0, 30.0, 41.0, 26.0,
37.0, 41.0, 28.0, 37.0, 43.0, 28.0, 28.0, 35.0, 61.0, 41.0, 81.0, 26.0, 24.0,
31.0, 52.0, 69.0, 20.0, 31.0, 22.0, 24.0, 57.0, 44.0, 24.0, 24.0, 17.0, 44.0,
24.0, 35.0, 26.0, 26.0, 33.0, 20.0, 46.0, 46.0, 43.0, 30.0, 20.0, 33.0, 26.0,
19.0, 41.0, 30.0, 19.0, 24.0, 24.0, 44.0, 22.0, 17.0, 17.0, 20.0, 17.0, 30.0,
33.0, 24.0, 26.0, 61.0, 26.0, 24.0, 13.0, 41.0, 33.0, 43.0, 50.0, 35.0, 24.0,
44.0, 50.0, 35.0, 50.0, 30.0, 46.0, 37.0, 31.0, 33.0, 46.0, 37.0, 37.0, 35.0,
43.0, 24.0, 35.0, 35.0, 31.0, 43.0, 50.0, 31.0, 31.0, 35.0, 48.0, 28.0, 39.0,
43.0, 35.0, 43.0, 35.0, 26.0, 30.0, 31.0, 24.0, 48.0, 52.0, 35.0, 52.0, 41.0,
30.0, 37.0, 22.0, 30.0, 19.0, 43.0, 19.0, 19.0, 39.0, 19.0, 26.0, 30.0, 30.0,
28.0, 17.0, 28.0, 26.0, 35.0, 13.0, 17.0, 24.0, 31.0, 20.0, 15.0, 13.0, 20.0,
24.0, 35.0, 39.0, 26.0, 17.0, 44.0, 28.0, 24.0, 22.0, 19.0, 31.0, 15.0, 17.0,
33.0, 20.0, 20.0, 20.0, 17.0, 33.0, 35.0, 19.0, 20.0, 48.0, 26.0, 24.0, 22.0,
44.0, 15.0, 28.0, 26.0, 20.0, 33.0, 43.0, 43.0, 54.0, 67.0, 35.0, 28.0, 30.0,

28.0, 46.0, 41.0, 41.0, 24.0, 44.0, 46.0, 46.0, 28.0, 28.0, 31.0, 44.0, 28.0,
24.0, 54.0, 41.0, 30.0, 44.0, 37.0, 37.0, 35.0, 65.0, 43.0, 41.0, 30.0, 30.0,
35.0, 31.0, 22.0, 35.0, 41.0, 31.0, 28.0, 30.0, 35.0, 22.0, 19.0, 20.0, 19.0,
17.0, 22.0, 17.0, 46.0, 30.0, 30.0, 26.0, 24.0, 17.0, 13.0, 41.0, 15.0, 22.0,
9.0, 11.0, 22.0, 39.0, 13.0, 28.0, 28.0, 17.0, 11.0, 15.0, 24.0, 15.0, 26.0,
39.0, 11.0, 19.0, 26.0, 48.0, 39.0, 26.0, 15.0, 33.0, 37.0, 20.0, 57.0, 30.0,
17.0, 43.0, 28.0, 57.0, 35.0, 28.0, 44.0, 44.0, 57.0, 20.0, 15.0, 54.0, 50.0,
46.0, 26.0, 28.0, 50.0, 31.0, 39.0, 22.0, 26.0, 43.0, 20.0, 31.0, 28.0, 37.0,
44.0, 28.0, 33.0, 46.0, 46.0, 28.0, 31.0, 48.0, 43.0, 50.0, 26.0, 33.0, 56.0,
44.0, 50.0, 43.0, 35.0, 37.0, 43.0, 37.0, 54.0, 52.0, 41.0, 43.0, 43.0, 46.0,
41.0, 31.0, 33.0, 31.0, 41.0, 35.0, 44.0, 28.0, 31.0, 33.0, 63.0, 28.0, 19.0,
83.0, 46.0, 20.0, 54.0, 50.0, 20.0, 24.0, 50.0, 31.0, 37.0, 63.0, 37.0, 24.0,
24.0, 31.0, 20.0, 19.0, 24.0, 48.0, 30.0, 30.0, 24.0, 30.0, 31.0, 22.0, 39.0,
24.0, 17.0, 15.0, 15.0, 11.0, 19.0, 19.0, 13.0, 22.0, 30.0, 17.0, 30.0, 19.0,
35.0, 67.0, 48.0, 19.0, 28.0, 20.0, 50.0, 13.0, 15.0, 20.0, 24.0, 54.0, 24.0,
11.0, 17.0, 39.0, 20.0, 22.0, 15.0, 17.0, 20.0, 19.0, 24.0, 78.0, 22.0, 17.0,
33.0, 28.0, 37.0, 41.0, 31.0, 72.0, 43.0, 19.0, 48.0, 41.0, 31.0, 46.0, 20.0,
41.0, 28.0, 39.0, 24.0, 41.0, 30.0, 37.0, 52.0, 33.0, 31.0, 41.0, 69.0, 44.0,
37.0, 37.0, 33.0, 54.0, 43.0, 57.0, 43.0, 46.0, 56.0, 41.0, 39.0, 30.0, 41.0,
37.0, 28.0, 59.0, 35.0, 63.0, 28.0, 43.0, 33.0, 33.0, 31.0, 30.0, 81.0, 31.0,
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11.0, 11.0, 9.0, 15.0, 11.0, 22.0, 19.0, 17.0, 7.0, 15.0, 7.0, 15.0, 15.0, 4.0,
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22.0, 4.0, 26.0, 17.0, 19.0, 22.0, 17.0, 9.0, 2.0, 7.0, 2.0, 7.0, 13.0, 7.0,
6.0, 11.0, 9.0, 11.0, 13.0, 41.0, 13.0, 13.0, 13.0, 19.0, 17.0, 15.0, 20.0, 9.0,
15.0, 17.0, 15.0, 20.0, 4.0, 17.0, 4.0, 15.0, 19.0, 6.0, 9.0, 17.0, 9.0, 20.0,
26.0, 9.0, 6.0, 17.0, 6.0, 15.0, 2.0, 13.0, 2.0, 13.0, 6.0, 4.0, 17.0, 4.0,
15.0, 4.0, 9.0, 9.0, 31.0, 22.0, 6.0, 9.0, 4.0, 20.0, 11.0, 7.0, 9.0, 6.0, 11.0,
35.0, 7.0, 22.0, 11.0, 19.0, 11.0, 2.0, 2.0, 9.0, 4.0, 4.0, 11.0, 4.0, 20.0,
11.0, 9.0, 19.0, 13.0, 11.0, 4.0, 20.0, 17.0, 4.0, 19.0, 17.0, 2.0, 4.0, 13.0,
9.0, 4.0, 6.0, 19.0, 11.0, 7.0, 19.0, 11.0, 7.0, 13.0, 4.0, 6.0, 2.0, 11.0, 6.0,
4.0, 2.0, 13.0, 17.0, 9.0, 9.0, 11.0, 11.0, 11.0, 7.0, 7.0, 7.0, 9.0, 11.0,
13.0, 11.0, 6.0, 2.0, 2.0, 11.0, 22.0, 13.0, 13.0, 7.0, 7.0, 9.0, 13.0, 19.0,
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6.0, 11.0, 6.0, 9.0, 7.0, 9.0, 15.0, 17.0, 11.0, 19.0, 6.0, 15.0, 11.0, 6.0,
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4.0, 6.0, 6.0, 13.0, 11.0, 11.0, 11.0, 9.0, 9.0, 9.0, 9.0, 9.0, 7.0, 7.0, 17.0,
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4.0, 7.0, 7.0, 4.0, 2.0, 9.0, 2.0, 6.0, 4.0, 2.0, 9.0, 4.0, 9.0, 4.0, 7.0, 4.0,
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89.0, 92.0, 92.0, 94.0, 64.0, 67.0, 75.0, 65.0, 78.0, 87.0, 84.0, 74.0, 60.0,
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95.0, 90.0, 65.0, 53.0, 91.0, 89.0, 82.0, 100.0, 78.0, 68.0, 70.0, 63.0, 59.0,
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43.0, 99.0, 44.0, 53.0, 52.0, 33.0, 25.0, 52.0, 95.0, 59.0, 44.0, 54.0, 33.0,
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93.0, 90.0, 75.0, 94.0, 96.0, 88.0, 57.0, 92.0, 79.0, 91.0, 74.0, 60.0, 87.0,
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93.0, 36.0, 28.0, 44.0, 54.0, 59.0, 57.0, 89.0, 82.0, 78.0, 66.0, 58.0, 92.0,
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81.0, 96.0, 69.0, 96.0, 89.0, 76.0, 92.0, 65.0, 72.0, 64.0, 61.0, 71.0, 78.0,
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75.0, 59.0, 74.0, 52.0, 76.0, 92.0, 70.0, 64.0, 60.0, 80.0, 80.0, 97.0, 61.0,
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73.0, 76.0, 76.0, 77.0, 68.0, 68.0, 78.0, 76.0, 69.0, 66.0, 68.0, 65.0, 45.0,
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63.0, 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,
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86.0, 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, 77.0, 84.0, 82.0, 67.0, 79.0, 69.0, 93.0, 86.0, 88.0, 91.0, 79.0, 65.0,
74.0, 83.0, 66.0, 77.0, 84.0, 74.0, 89.0, 95.0, 67.0, 71.0, 77.0, 80.0, 53.0,
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63.0, 60.0, 60.0, 56.0, 42.0, 46.0, 64.0, 63.0, 55.0, 56.0, 71.0, 57.0, 52.0,
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73.0, 35.0, 63.0, 91.0, 80.0, 78.0, 67.0, 69.0, 67.0, 68.0, 83.0, 80.0, 76.0,
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98.0, 72.0, 98.0, 67.0, 56.0, 62.0, 68.0, 64.0, 65.0, 72.0, 57.0, 61.0, 58.0,
65.0, 81.0, 86.0, 64.0, 80.0, 58.0, 64.0, 32.0, 65.0, 55.0, 63.0, 88.0, 64.0,
68.0, 93.0, 67.0, 95.0, 59.0, 99.0, 74.0, 73.0, 74.0, 75.0, 55.0, 64.0, 76.0,
53.0, 66.0, 75.0, 49.0, 44.0, 61.0, 89.0, 51.0, 42.0, 56.0, 65.0, 44.0, 61.0,
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65.0, 99.0, 52.0, 48.0, 81.0, 60.0, 74.0, 68.0, 59.0, 62.0, 67.0, 42.0, 75.0,
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67.0, 69.0, 38.0, 82.0, 81.0, 100.0, 99.0, 89.0, 76.0, 67.0, 89.0, 82.0, 93.0,
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85.0, 69.0, 68.0, 76.0, 99.0, 70.0, 51.0, 45.0, 91.0, 67.0, 61.0, 38.0, 44.0,
64.0, 84.0, 68.0, 93.0, 50.0, 69.0, 90.0, 59.0, 74.0, 64.0, 46.0, 99.0, 72.0,
51.0, 64.0, 66.0, 75.0, 45.0, 50.0, 87.0, 75.0, 45.0, 55.0, 52.0, 62.0, 65.0,
65.0, 61.0, 59.0, 69.0, 59.0, 84.0, 69.0, 67.0, 62.0, 62.0, 65.0, 77.0, 43.0,
55.0, 69.0, 66.0, 70.0, 55.0, 68.0, 63.0, 36.0, 40.0, 41.0, 74.0, 88.0, 61.0,
61.0, 55.0, 71.0, 77.0, 59.0, 63.0, 57.0, 56.0, 57.0, 66.0, 74.0, 54.0, 60.0,
62.0, 100.0, 68.0, 63.0, 66.0, 53.0, 61.0, 85.0, 41.0, 55.0, 58.0, 53.0, 63.0,
68.0, 60.0, 97.0, 96.0, 99.0, 86.0, 70.0, 64.0, 63.0, 66.0, 66.0, 64.0, 62.0,
61.0, 76.0, 74.0, 91.0, 74.0, 89.0, 74.0, 62.0, 54.0, 56.0, 81.0, 74.0, 88.0,
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91.0, 69.0, 76.0, 61.0, 75.0, 100.0, 65.0, 75.0, 78.0, 70.0, 63.0, 63.0, 63.0,
67.0, 74.0, 100.0, 100.0, 64.0, 38.0, 39.0, 53.0, 66.0, 75.0, 56.0, 45.0, 71.0,
80.0, 91.0, 98.0, 71.0, 52.0, 92.0, 63.0, 81.0, 80.0, 74.0, 57.0, 46.0, 53.0,
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62.0, 63.0, 83.0, 94.0, 75.0, 61.0, 62.0, 64.0, 63.0, 60.0, 55.0, 61.0, 65.0,
64.0, 56.0, 76.0, 96.0, 75.0, 81.0, 73.0, 94.0, 100.0, 69.0, 63.0, 65.0, 79.0,
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76.0, 78.0, 72.0, 45.0, 75.0, 29.0, 25.0, 31.0, 69.0, 24.0, 75.0, 21.0, 55.0,
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66.0, 55.0, 39.0, 55.0, 48.0, 49.0, 49.0, 43.0, 61.0, 64.0, 63.0, 57.0, 63.0,
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54.0, 68.0, 41.0, 61.0, 60.0, 61.0, 72.0, 62.0, 63.0, 66.0, 66.0, 71.0, 65.0,
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66.0, 67.0, 43.0, 44.0, 53.0, 63.0, 59.0, 53.0, 51.0, 54.0, 67.0, 67.0, 57.0,
58.0, 65.0, 58.0, 70.0, 72.0, 64.0, 63.0, 55.0, 67.0, 60.0, 67.0, 74.0, 69.0,
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48.0, 62.0, 47.0, 57.0, 63.0, 69.0, 25.0, 73.0, 50.0, 60.0, 62.0, 33.0, 31.0,
32.0, 43.0, 58.0, 70.0, 48.0, 91.0, 87.0, 73.0, 66.0, 73.0, 85.0, 85.0, 62.0,
63.0, 72.0, 62.0, 56.0, 74.0, 85.0, 72.0, 57.0, 78.0, 89.0, 92.0, 72.0, 53.0,
89.0, 75.0, 51.0, 39.0, 94.0, 96.0, 91.0, 73.0, 58.0, 76.0, 89.0, 67.0, 30.0,
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42.0, 72.0, 36.0, 56.0, 26.0, 70.0, 63.0, 49.0, 51.0, 51.0, 59.0, 49.0, 35.0,
33.0, 46.0, 41.0, 88.0, 74.0, 58.0, 37.0, 54.0, 34.0, 95.0, 56.0, 52.0, 60.0,
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62.0, 84.0, 72.0, 65.0, 73.0, 35.0, 76.0, 48.0, 41.0, 44.0, 31.0, 28.0, 54.0,
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65.0, 89.0, 62.0, 89.0, 70.0, 76.0, 64.0, 96.0, 83.0, 37.0, 82.0, 77.0, 36.0,
67.0, 66.0, 19.0, 54.0, 66.0, 48.0, 14.0, 76.0, 48.0, 22.0, 57.0, 51.0, 32.0,
93.0, 56.0, 57.0, 49.0, 66.0, 54.0, 44.0, 68.0, 54.0, 84.0, 32.0, 50.0, 39.0,
58.0, 44.0, 82.0, 17.0, 30.0, 36.0, 55.0, 40.0, 34.0, 44.0, 37.0, 18.0, 56.0,
38.0, 33.0, 50.0, 50.0, 45.0, 55.0, 56.0, 85.0, 52.0, 55.0, 67.0, 62.0, 56.0,
22.0, 59.0, 48.0, 47.0, 16.0, 61.0, 70.0, 51.0, 67.0, 49.0, 68.0, 54.0, 41.0,
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47.0, 76.0, 70.0, 69.0, 70.0, 51.0, 84.0, 89.0, 96.0, 95.0, 97.0, 66.0, 78.0,
83.0, 88.0, 83.0, 90.0, 45.0, 71.0, 48.0, 99.0, 79.0, 75.0, 77.0, 49.0, 81.0,
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61.0, 94.0, 88.0, 72.0, 70.0, 25.0, 22.0, 91.0, 83.0, 65.0, 72.0, 73.0, 96.0,
75.0, 64.0, 78.0, 62.0, 73.0, 87.0, 95.0, 90.0, 89.0, 92.0, 63.0, 70.0, 73.0,
32.0, 75.0, 64.0, 64.0, 91.0, 66.0, 38.0, 72.0, 24.0, 79.0, 48.0, 45.0, 57.0,
19.0, 51.0, 79.0, 52.0, 35.0, 50.0, 52.0, 18.0, 11.0, 67.0, 72.0, 10.0, 59.0,
24.0, 29.0, 50.0, 53.0, 39.0, 46.0, 42.0, 11.0, 12.0, 68.0, 52.0, 76.0, 37.0,
13.0, 41.0, 93.0, 54.0, 70.0, 52.0, 48.0, 53.0, 66.0, 52.0, 64.0, 77.0, 76.0,
69.0, 31.0, 71.0, 61.0, 65.0, 75.0, 57.0, 73.0, 46.0, 42.0, 47.0, 75.0, 47.0,
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69.0, 67.0, 84.0, 70.0, 56.0, 65.0, 53.0, 69.0, 49.0, 72.0, 72.0, 81.0, 82.0,
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94.0, 91.0, 88.0, 91.0, 65.0, 92.0, 72.0, 89.0, 84.0, 72.0, 80.0, 96.0, 89.0,
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88.0, 75.0, 85.0, 75.0, 93.0, 95.0, 69.0, 84.0, 93.0, 94.0, 91.0, 55.0, 85.0,
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66.0, 57.0, 54.0, 76.0, 64.0, 61.0, 65.0, 51.0, 84.0, 77.0, 79.0, 74.0, 53.0,
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66.0, 64.0, 92.0, 71.0, 59.0, 68.0, 68.0, 66.0, 55.0, 54.0, 90.0, 55.0, 92.0,
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74.0, 41.0, 37.0, 43.0, 98.0, 31.0, 54.0, 65.0, 47.0, 80.0, 58.0, 67.0, 69.0,
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71.0, 67.0, 98.0, 43.0, 39.0, 47.0, 59.0, 61.0, 51.0, 37.0, 47.0, 40.0, 41.0,
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69.0, 43.0, 45.0, 59.0, 93.0, 55.0, 61.0, 50.0, 99.0, 62.0, 50.0, 63.0, 88.0,
47.0, 53.0, 38.0, 64.0, 37.0, 36.0, 46.0, 30.0, 36.0, 45.0, 46.0, 53.0, 46.0,
77.0, 66.0, 56.0, 32.0, 52.0, 36.0, 34.0, 39.0, 38.0, 23.0, 35.0, 48.0, 33.0,
37.0, 42.0, 30.0, 35.0, 31.0, 37.0, 38.0, 75.0, 42.0, 87.0, 59.0, 35.0, 59.0,
86.0, 40.0, 27.0, 26.0, 45.0, 22.0, 19.0, 39.0, 16.0, 49.0, 66.0, 43.0, 35.0,
63.0, 39.0, 45.0, 28.0, 24.0, 38.0, 52.0, 47.0, 11.0, 50.0, 26.0, 51.0, 29.0,
51.0, 39.0, 71.0, 42.0, 33.0, 52.0, 55.0, 66.0, 45.0, 61.0, 34.0, 17.0, 55.0,
29.0, 72.0, 34.0, 53.0, 44.0, 59.0, 44.0, 50.0, 35.0, 40.0, 67.0, 28.0, 27.0,
43.0, 32.0, 60.0, 71.0, 96.0, 76.0, 39.0, 61.0, 44.0, 41.0, 35.0, 56.0, 83.0,
51.0, 62.0, 90.0, 59.0, 34.0, 32.0, 32.0, 53.0, 38.0, 42.0, 75.0, 32.0, 46.0,
49.0, 48.0, 88.0, 67.0, 59.0, 56.0, 50.0, 55.0, 66.0, 35.0, 54.0, 45.0, 63.0,
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99.0, 84.0, 99.0, 84.0, 57.0, 43.0, 55.0, 64.0, 99.0, 99.0, 48.0, 52.0, 53.0,
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99.0, 96.0, 70.0, 56.0, 61.0, 81.0, 32.0, 27.0, 77.0, 33.0, 46.0, 75.0, 39.0,
66.0, 76.0, 42.0, 43.0, 53.0, 55.0, 16.0, 65.0, 44.0, 33.0, 34.0, 55.0, 48.0,
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39.0, 19.0, 54.0, 64.0, 100.0, 100.0, 100.0, 59.0, 41.0, 48.0, 62.0, 47.0, 50.0,
99.0, 52.0, 42.0, 54.0, 44.0, 100.0, 62.0, 79.0, 74.0, 75.0, 61.0, 87.0, 65.0,
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65.0, 65.0, 67.0, 49.0, 99.0, 51.0, 44.0, 62.0, 63.0, 31.0, 47.0, 59.0, 43.0,
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51.0, 75.0, 69.0, 38.0, 52.0, 45.0, 41.0, 20.0, 33.0, 40.0, 53.0, 56.0, 90.0,
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22.0, 47.0, 38.0, 52.0, 70.0, 60.0, 56.0, 47.0, 94.0, 86.0, 48.0, 49.0, 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,
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87.0, 62.0, 55.0, 44.0, 37.0, 33.0, 53.0, 62.0, 42.0, 67.0, 68.0, 74.0, 77.0,
69.0, 72.0, 56.0, 73.0, 94.0, 70.0, 70.0, 70.0, 63.0, 98.0, 67.0, 69.0, 58.0,
77.0, 60.0, 73.0, 82.0, 84.0, 77.0, 60.0, 68.0, 57.0, 53.0, 66.0, 76.0, 70.0,
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65.0, 54.0, 53.0, 33.0, 57.0, 90.0, 58.0, 55.0, 96.0, 70.0, 67.0, 77.0, 66.0,
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73.0, 65.0, 71.0, 61.0, 67.0, 70.0, 61.0, 55.0, 76.0, 69.0, 73.0, 56.0, 70.0,
87.0, 64.0, 72.0, 100.0, 74.0, 73.0, 63.0, 63.0, 62.0, 70.0, 58.0, 56.0, 63.0,
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 56.0, 64.0, 99.0, 70.0, 56.0, 64.0, 51.0, 58.0, 52.0, 60.0, 63.0, 88.0, 37.0,
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67.0, 73.0, 69.0, 70.0, 81.0, 98.0, 76.0, 59.0, 87.0, 72.0, 82.0, 83.0, 87.0,
73.0, 66.0, 61.0, 66.0, 78.0, 78.0, 60.0, 60.0, 56.0, 58.0, 52.0, 88.0, 94.0,
100.0, 74.0, 77.0, 68.0, 67.0, 61.0, 68.0, 61.0, 66.0, 92.0, 44.0, 63.0, 65.0,
66.0, 65.0, 69.0, 50.0, 92.0, 100.0, 99.0, 100.0, 88.0, 65.0, 40.0, 47.0, 49.0,
32.0, 37.0, 99.0, 100.0, 52.0, 64.0, 65.0, 66.0, 71.0, 66.0, 50.0, 65.0, 66.0,
83.0, 69.0, 70.0, 69.0, 68.0, 81.0, 65.0, 79.0, 84.0, 72.0, 89.0, 95.0, 79.0,
72.0, 64.0, 62.0, 73.0, 51.0, 59.0, 62.0, 71.0, 66.0, 61.0, 60.0, 55.0, 55.0,
55.0, 38.0, 36.0, 69.0, 85.0, 47.0, 62.0, 39.0, 52.0, 82.0, 54.0, 57.0, 50.0,
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47.0, 59.0, 45.0, 61.0, 46.0, 57.0, 51.0, 54.0, 60.0, 56.0, 53.0, 44.0, 64.0,
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59.0, 69.0, 60.0, 70.0, 98.0, 93.0, 69.0, 69.0, 68.0, 69.0, 80.0, 88.0, 77.0,
66.0, 67.0, 62.0, 38.0, 70.0, 56.0, 52.0, 69.0, 67.0, 76.0, 66.0, 61.0, 63.0,
63.0, 65.0, 78.0, 62.0, 55.0, 67.0, 62.0, 61.0, 85.0, 75.0, 61.0, 68.0, 52.0,
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71.0, 58.0, 52.0, 51.0, 58.0, 87.0, 66.0, 77.0, 81.0, 57.0, 66.0, 75.0, 73.0,
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66.0, 60.0, 64.0, 67.0, 83.0, 84.0, 71.0, 59.0, 48.0, 53.0, 61.0, 68.0, 63.0,
66.0, 67.0, 56.0, 71.0, 66.0, 58.0, 81.0, 86.0, 49.0, 58.0, 59.0, 77.0, 68.0,
67.0, 69.0, 63.0, 67.0, 38.0, 57.0, 42.0, 56.0, 53.0, 54.0, 64.0, 50.0, 47.0,
73.0, 58.0, 47.0, 45.0, 50.0, 48.0, 58.0, 46.0, 44.0, 49.0, 49.0, 54.0, 56.0,
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41.0, 44.0, 51.0, 50.0, 32.0, 50.0, 36.0, 30.0, 47.0, 47.0, 30.0, 57.0, 35.0,
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53.0, 41.0, 57.0, 52.0, 51.0, 84.0, 51.0, 71.0, 56.0, 50.0, 99.0, 72.0, 63.0,
57.0, 70.0, 88.0, 63.0, 54.0, 62.0, 51.0, 43.0, 63.0, 64.0, 68.0, 54.0, 78.0,
67.0, 52.0, 73.0, 55.0, 75.0, 83.0, 82.0, 97.0, 63.0, 57.0, 61.0, 51.0, 86.0,
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51.0, 81.0, 59.0, 61.0, 55.0, 78.0, 66.0, 47.0, 64.0, 62.0, 61.0, 57.0, 48.0,
71.0, 59.0, 44.0, 51.0, 51.0, 44.0, 41.0, 62.0, 55.0, 40.0, 32.0, 47.0, 56.0,
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66.0, 47.0, 52.0, 50.0, 53.0, 57.0, 47.0, 52.0, 48.0, 49.0, 43.0, 50.0, 37.0,
70.0, 56.0, 55.0, 69.0, 41.0, 45.0, 28.0, 59.0, 46.0, 61.0, 76.0, 72.0, 75.0,
64.0, 69.0, 69.0, 65.0, 94.0, 70.0, 98.0, 88.0, 56.0, 68.0, 55.0, 75.0, 69.0,
49.0, 63.0, 90.0, 65.0, 67.0, 56.0, 72.0, 68.0, 78.0, 78.0, 54.0, 72.0, 54.0,
54.0, 60.0, 94.0, 66.0, 60.0, 51.0, 41.0, 72.0, 63.0, 93.0, 75.0, 41.0, 68.0,
45.0, 68.0, 68.0, 78.0, 54.0, 34.0, 63.0, 47.0, 59.0, 53.0, 97.0, 62.0, 51.0,
53.0, 54.0, 61.0, 62.0, 51.0, 59.0, 90.0, 66.0, 44.0, 51.0, 35.0, 46.0, 52.0,
56.0, 43.0, 45.0, 52.0, 52.0, 55.0, 61.0, 51.0, 30.0, 55.0, 37.0, 43.0, 46.0,
55.0, 56.0, 51.0, 49.0, 44.0, 49.0, 48.0, 100.0, 65.0, 53.0, 59.0, 55.0, 47.0,
50.0, 91.0, 97.0, 67.0, 59.0, 42.0, 55.0, 68.0, 51.0, 46.0, 77.0, 59.0, 56.0,
64.0, 65.0, 58.0, 63.0, 58.0, 67.0, 74.0, 44.0, 64.0, 77.0, 54.0, 73.0, 56.0,
67.0, 74.0, 67.0, 77.0, 64.0, 80.0, 76.0, 54.0, 72.0, 60.0, 53.0, 73.0, 80.0,
63.0, 68.0, 73.0, 58.0, 52.0, 100.0, 68.0, 69.0, 64.0, 54.0, 67.0, 99.0, 72.0,
65.0, 68.0, 73.0, 70.0, 61.0, 62.0, 99.0, 73.0, 83.0, 63.0, 79.0, 61.0, 36.0,
59.0, 64.0, 84.0, 68.0, 61.0, 63.0, 68.0, 56.0, 48.0, 60.0, 59.0, 66.0, 58.0,
49.0, 70.0, 55.0, 54.0, 59.0, 35.0, 48.0, 42.0, 57.0, 50.0, 51.0, 56.0, 55.0,
42.0, 49.0, 55.0, 50.0, 49.0, 51.0, 43.0, 55.0, 45.0, 22.0, 51.0, 18.0, 62.0,
60.0, 57.0, 51.0, 26.0, 71.0, 45.0, 40.0, 42.0, 45.0, 58.0, 41.0, 64.0, 62.0,
83.0, 66.0, 45.0, 46.0, 43.0, 64.0, 57.0, 50.0, 78.0, 68.0, 58.0, 68.0, 47.0,
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 15.0, 16.0, 19.0, 12.0, 12.0, 15.0, 20.0, 18.0, 23.0, 20.0, 7.0, 15.0, 11.0,
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28.0, 20.0, 24.0, 27.0, 29.0, 34.0, 35.0, 36.0, 28.0, 20.0, 17.0, 17.0, 20.0,
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21.0, 18.0, 18.0, 24.0, 33.0, 37.0, 33.0, 39.0, 37.0, 34.0, 33.0, 24.0, 20.0,
16.0, 21.0, 37.0, 39.0, 41.0, 30.0, 25.0, 34.0, 35.0, 25.0, 39.0, 38.0, 33.0,
35.0, 28.0, 26.0, 29.0, 25.0, 21.0, 26.0]

```

2.5.1 Mean & Standard Deviation

```

[ ]: 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[columns].mean()

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

```

```

Mean for each column:
MinTemp          12.210032
MaxTemp          23.246068
Rainfall         2.342862
WindGustSpeed    40.001379
WindSpeed9am     13.995315
WindSpeed3pm     18.607516
Humidity9am      68.791176
Humidity3pm      51.597672
Pressure9am     1017.581591
Pressure3pm     1015.192792
Cloud9am         4.412041
Cloud3pm         4.466054
Temp9am          17.028266
Temp3pm          21.700982
RainToday        0.222462
dtype: float64

```

```

[ ]: 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[columns].std()

# Print the standard deviation for each column
print("Standard deviation for each column:")
print(std_values)

```

```

Standard deviation for each column:
MinTemp          6.432122
MaxTemp          7.123596
Rainfall         8.412106
WindGustSpeed    13.605915
WindSpeed9am     8.872445
WindSpeed3pm     8.806916

```



```
Humidity9am      18.996115
Humidity3pm      20.844525
Pressure9am       7.094070
Pressure3pm       7.016408
Cloud9am          2.887927
Cloud3pm          2.729640
Temp9am           6.501771
Temp3pm           6.951426
RainToday         0.415904
dtype: float64
```

```
[ ]: 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: 58.35116424079386

Standard Deviation: 162.4010975108877

2.6 ANOVA test

The following code block will perform ANOVA on the dataset with 'RainToday' as the dependent variable and the other variables as independent variables. This test will help determine if there are any significant differences in the mean 'RainToday' values across different levels of the independent variables.

```
[ ]: from scipy import stats

# Extract the variables from the dataset
MinTemp = data_test['MinTemp']
MaxTemp = data_test['MaxTemp']
Rainfall = data_test['Rainfall']
WindGustSpeed = data_test['WindGustSpeed']
WindSpeed9am = data_test['WindSpeed9am']
WindSpeed3pm = data_test['WindSpeed3pm']
Humidity9am = data_test['Humidity9am']
Humidity3pm = data_test['Humidity3pm']
Pressure9am = data_test['Pressure9am']
Pressure3pm = data_test['Pressure3pm']
Cloud9am = data_test['Cloud9am']
Cloud3pm = data_test['Cloud3pm']
```

```

Temp9am = data_test['Temp9am']
Temp3pm = data_test['Temp3pm']
RainToday = data_test['RainToday']

# Perform one-way ANOVA
fvalue, pvalue = stats.f_oneway(MinTemp, MaxTemp, Rainfall, WindGustSpeed,
    ↪ WindSpeed9am, WindSpeed3pm, Humidity9am,
    Humidity3pm, Pressure9am, Pressure3pm,
    ↪ Cloud9am, Cloud3pm, Temp9am, Temp3pm)

# Print the results
print("One-way ANOVA results:")
print("F-value:", fvalue)
print("p-value:", pvalue)

```

One-way ANOVA results:

F-value: nan

p-value: nan

The `f_oneway` function from the `scipy.stats` module is used to perform the one-way ANOVA test. The resulting `fvalue` 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 mean 'RainToday' values across the independent variables.

2.7 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.

```

[ ]: from scipy import stats

# Extract the variables from the dataset
MinTemp = data_test['MinTemp']
MaxTemp = data_test['MaxTemp']
Rainfall = data_test['Rainfall']
WindGustSpeed = data_test['WindGustSpeed']
WindSpeed9am = data_test['WindSpeed9am']
WindSpeed3pm = data_test['WindSpeed3pm']
Humidity9am = data_test['Humidity9am']
Humidity3pm = data_test['Humidity3pm']
Pressure9am = data_test['Pressure9am']
Pressure3pm = data_test['Pressure3pm']
Cloud9am = data_test['Cloud9am']
Cloud3pm = data_test['Cloud3pm']
Temp9am = data_test['Temp9am']
Temp3pm = data_test['Temp3pm']
RainToday = data_test['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)

```

Kruskal-Wallis H test results:

H-value: nan

p-value: nan

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.

2.8 Models

```

[ ]: 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)

[ ]: 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

```

[ ]: 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

```
[ ]: import joblib
      from sklearn.ensemble import RandomForestClassifier

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

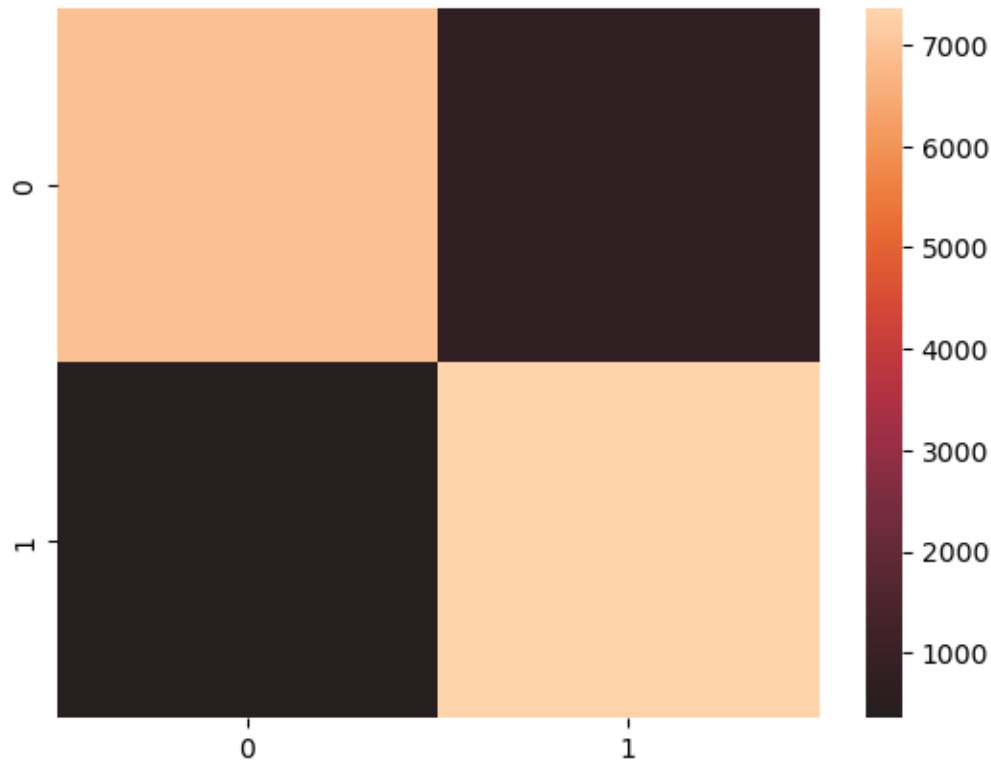
      # Save your trained model
      joblib.dump(RandomForestClassifierModel, 'RandomForestClassifierModel.joblib')
```

```
[ ]: ['RandomForestClassifierModel.joblib']
```

```
[ ]: 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)
```

```
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)
```

```
[ ]: 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

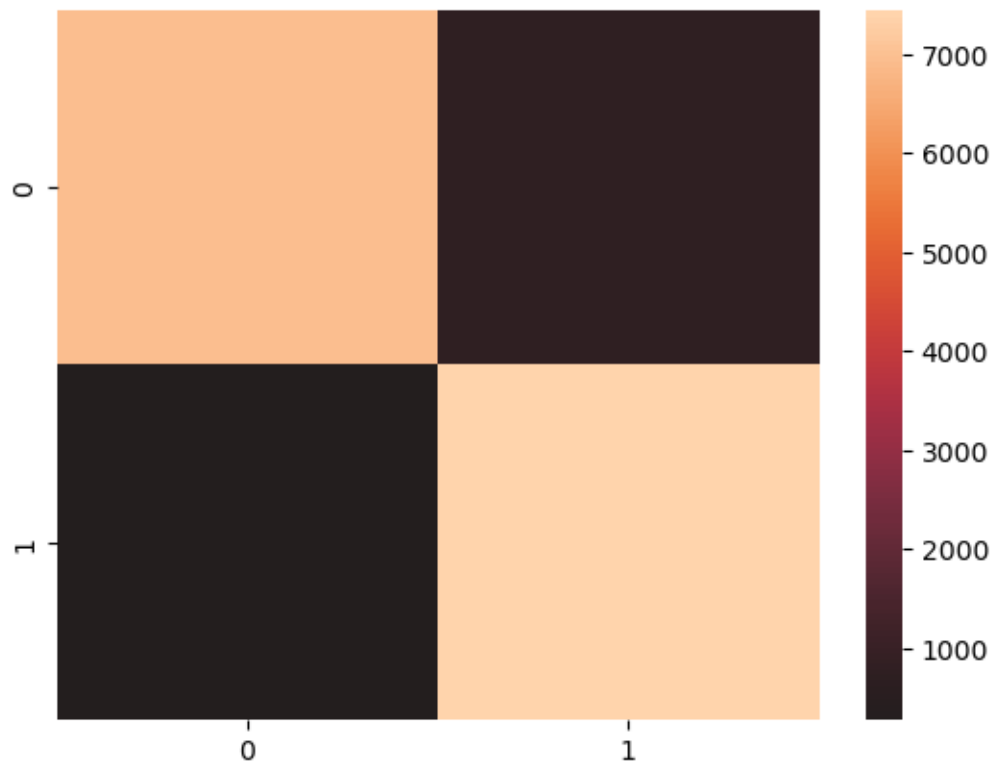
```
[ ]: joblib.dump(GBCModel, 'GBCModel.joblib')
```

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

```
[ ]: 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

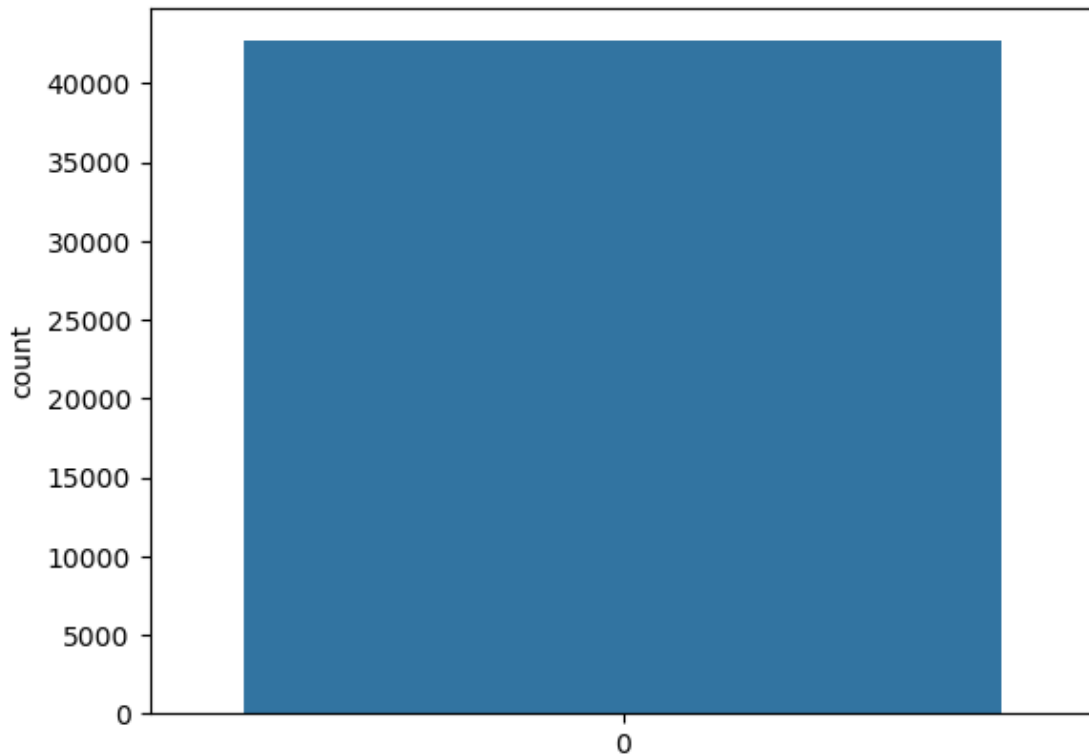
```
[[6951  758]
```

```
 [ 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_94084/1624392679.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.


```
[ ]: 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= 19.0s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=4,
min_samples_split=10, n_estimators=100; total time= 19.1s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=4,
min_samples_split=10, n_estimators=100; total time= 19.3s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=5, n_estimators=100; total time= 19.8s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=5, n_estimators=100; total time= 19.9s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=5, n_estimators=100; total time= 19.9s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=5, n_estimators=100; total time= 20.0s
```

```

[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=5, n_estimators=100; total time= 20.1s

/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=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time= 16.7s

/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=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time= 16.6s

/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=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time= 16.8s
[CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time= 16.8s

/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= 17.0s

/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=sqrt, min_samples_leaf=4,
min_samples_split=10, n_estimators=100; total time= 18.3s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=4,
min_samples_split=10, n_estimators=100; total time= 18.4s

/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=None, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time= 19.0s

/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=5, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time= 6.8s
[CV] END max_depth=5, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time= 6.6s

/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(

/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= 6.6s

/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= 6.9s

/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= 7.2s

/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= 19.8s

/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= 20.1s
[CV] END max_depth=None, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time= 19.8s
[CV] END max_depth=None, max_features=auto, min_samples_leaf=2,
min_samples_split=10, n_estimators=100; total time= 19.9s

/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= 18.6s

/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=15, max_features=auto, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time= 18.7s

/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=15, max_features=auto, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time= 18.7s

/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=15, max_features=auto, min_samples_leaf=1,
min_samples_split=5, n_estimators=100; total time= 18.6s

/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=15, max_features=auto, min_samples_leaf=1,  
min_samples_split=5, n_estimators=100; total time= 18.4s
```

```
/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=10, max_features=auto, min_samples_leaf=4,  
min_samples_split=2, n_estimators=200; total time= 25.0s
```

```
/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=10, max_features=auto, min_samples_leaf=4,  
min_samples_split=2, n_estimators=200; total time= 25.0s
```

```
/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=10, max_features=auto, min_samples_leaf=4,  
min_samples_split=2, n_estimators=200; total time= 24.9s
```

```
[CV] END max_depth=None, max_features=auto, min_samples_leaf=4,  
min_samples_split=2, n_estimators=300; total time= 58.9s
```

```
[CV] END max_depth=10, max_features=auto, min_samples_leaf=4,  
min_samples_split=2, n_estimators=200; total time= 25.8s
```

```
[CV] END max_depth=None, max_features=auto, min_samples_leaf=4,  
min_samples_split=2, n_estimators=300; total time= 59.2s
```

```
[CV] END max_depth=None, max_features=auto, min_samples_leaf=4,  
min_samples_split=2, n_estimators=300; total time= 59.3s
```

```
[CV] END max_depth=10, max_features=auto, min_samples_leaf=4,  
min_samples_split=2, n_estimators=200; total time= 25.1s
```

```
[CV] END max_depth=None, max_features=auto, min_samples_leaf=4,  
min_samples_split=2, n_estimators=300; total time= 57.5s
```

```
[CV] END max_depth=None, max_features=auto, min_samples_leaf=4,  
min_samples_split=2, n_estimators=300; total time= 57.9s
```

```
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,  
min_samples_split=10, n_estimators=200; total time= 39.0s
```

```
[CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=200; total time= 34.1s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=10, n_estimators=200; total time= 38.5s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=10, n_estimators=200; total time= 38.4s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=10, n_estimators=200; total time= 38.5s
[CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=200; total time= 34.0s
[CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=200; total time= 34.2s
[CV] END max_depth=None, max_features=sqrt, min_samples_leaf=2,
min_samples_split=10, n_estimators=200; total time= 38.8s
[CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=200; total time= 30.6s
[CV] END max_depth=15, max_features=sqrt, min_samples_leaf=1,
min_samples_split=5, n_estimators=200; total time= 26.9s
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.

```
[ ]: 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]

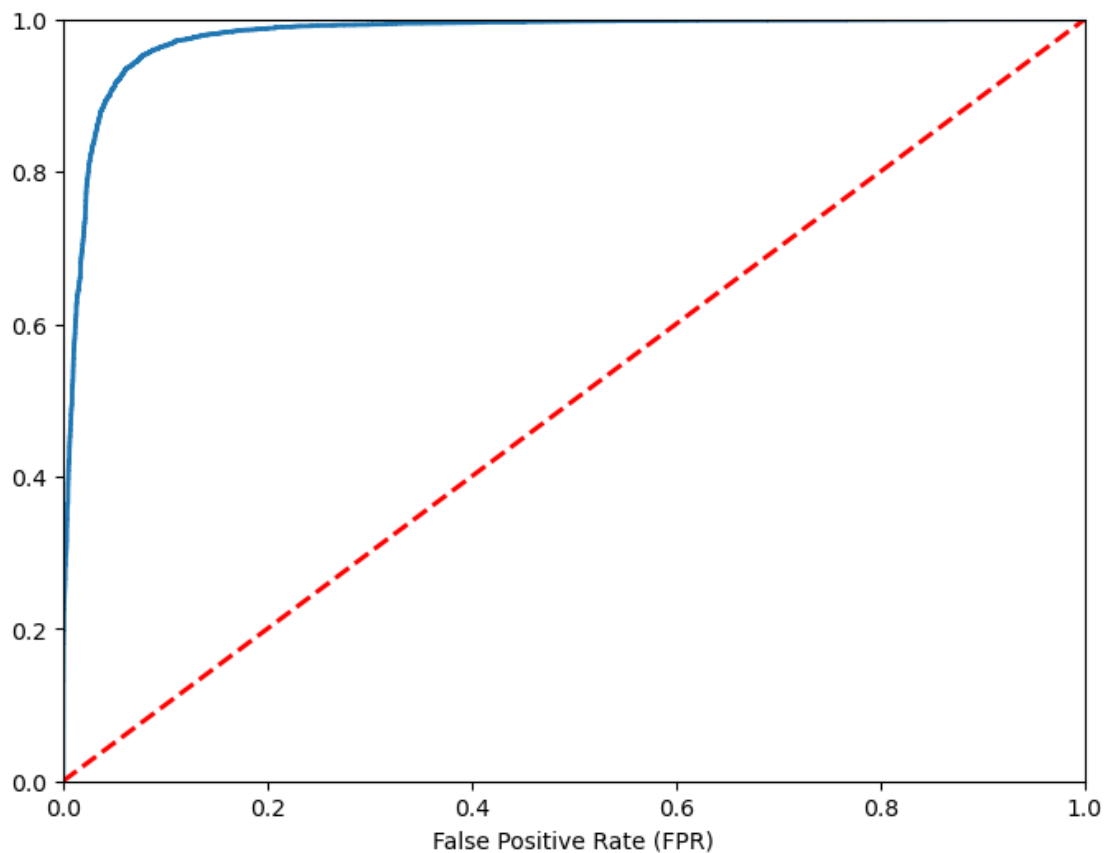
# calculate the False Positive Rate (FPR), True Positive Rate (TPR), and
    ↪ threshold values
fpr, tpr, thresholds = roc_curve(y_test, y_proba)

# 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.

```
[ ]: # 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')

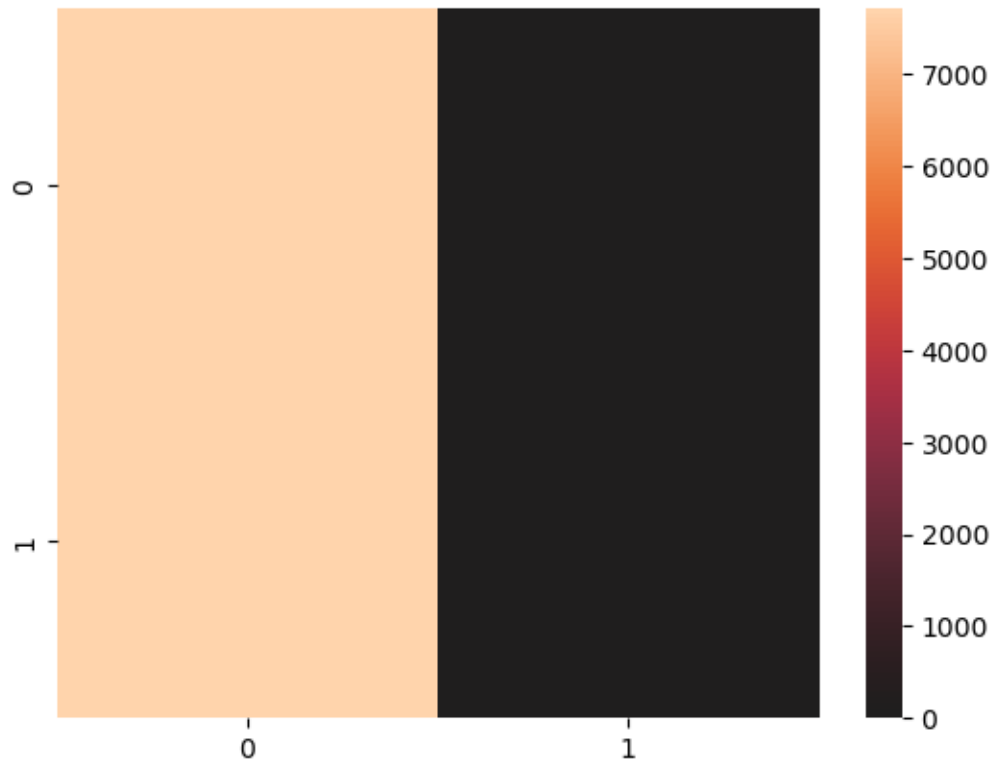
# fit the model on the training data
dummy.fit(X_train, y_train)

# 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