

```
In [20]: import pandas as pd
import numpy as np
from sklearn.impute import SimpleImputer
from scipy import stats
from scipy.stats import zscore

weather_data = pd.read_csv('weather.csv')

print("Initial Dataset Information:")
print(weather_data.info())
```

```
Initial Dataset Information:
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 366 entries, 0 to 365
Data columns (total 22 columns):
 #   Column                Non-Null Count  Dtype  
---  -
 0   MinTemp               366 non-null   float64
 1   MaxTemp               366 non-null   float64
 2   Rainfall              366 non-null   float64
 3   Evaporation           366 non-null   float64
 4   Sunshine              363 non-null   float64
 5   WindGustDir           363 non-null   object  
 6   WindGustSpeed         364 non-null   float64
 7   WindDir9am            335 non-null   object  
 8   WindDir3pm            365 non-null   object  
 9   WindSpeed9am          359 non-null   float64
10  WindSpeed3pm          366 non-null   int64  
11  Humidity9am           366 non-null   int64  
12  Humidity3pm           366 non-null   int64  
13  Pressure9am           366 non-null   float64
14  Pressure3pm           366 non-null   float64
15  Cloud9am              366 non-null   int64  
16  Cloud3pm              366 non-null   int64  
17  Temp9am               366 non-null   float64
18  Temp3pm               366 non-null   float64
19  RainToday             366 non-null   object  
20  RISK_MM               366 non-null   float64
21  RainTomorrow          366 non-null   object  
dtypes: float64(12), int64(5), object(5)
memory usage: 63.0+ KB
None
```

```
In [21]: weather_data.dropna(inplace=True)

print(weather_data.dropna())
```

	MinTemp	MaxTemp	Rainfall	Evaporation	Sunshine	WindGustDir	\
0	8.0	24.3	0.0	3.4	6.3	NW	
1	14.0	26.9	3.6	4.4	9.7	ENE	
2	13.7	23.4	3.6	5.8	3.3	NW	
3	13.3	15.5	39.8	7.2	9.1	NW	
4	7.6	16.1	2.8	5.6	10.6	SSE	
..	
361	9.0	30.7	0.0	7.6	12.1	NNW	
362	7.1	28.4	0.0	11.6	12.7	N	
363	12.5	19.9	0.0	8.4	5.3	ESE	
364	12.5	26.9	0.0	5.0	7.1	NW	
365	12.3	30.2	0.0	6.0	12.6	NW	

	WindGustSpeed	WindDir9am	WindDir3pm	WindSpeed9am	...	Humidity3pm	\
0	30.0	SW	NW	6.0	...	29	
1	39.0	E	W	4.0	...	36	
2	85.0	N	NNE	6.0	...	69	
3	54.0	WNW	W	30.0	...	56	
4	50.0	SSE	ESE	20.0	...	49	
..	
361	76.0	SSE	NW	7.0	...	15	
362	48.0	NNW	NNW	2.0	...	22	
363	43.0	ENE	ENE	11.0	...	47	
364	46.0	SSW	WNW	6.0	...	39	
365	78.0	NW	WNW	31.0	...	13	

	Pressure9am	Pressure3pm	Cloud9am	Cloud3pm	Temp9am	Temp3pm	\
0	1019.7	1015.0	7	7	14.4	23.6	
1	1012.4	1008.4	5	3	17.5	25.7	
2	1009.5	1007.2	8	7	15.4	20.2	
3	1005.5	1007.0	2	7	13.5	14.1	
4	1018.3	1018.5	7	7	11.1	15.4	
..	
361	1016.1	1010.8	1	3	20.4	30.0	
362	1020.0	1016.9	0	1	17.2	28.2	
363	1024.0	1022.8	3	2	14.5	18.3	
364	1021.0	1016.2	6	7	15.8	25.9	
365	1009.6	1009.2	1	1	23.8	28.6	

	RainToday	RISK_MM	RainTomorrow
0	No	3.6	Yes
1	Yes	3.6	Yes
2	Yes	39.8	Yes
3	Yes	2.8	Yes
4	Yes	0.0	No
..
361	No	0.0	No
362	No	0.0	No
363	No	0.0	No
364	No	0.0	No
365	No	0.0	No

[328 rows x 22 columns]

In []:

In []: