

Dataset loaded successfully!

First 5 rows of the dataset:

	day	month	year	Temperature	RH	Ws	Rain	FFMC	DMC	DC	ISI	BUI	FWI	Classes	Region
0	1	6	2012	29	57	18	0.0	65.7	3.4	7.6	1.3	3.4	0.5	not fire	Bejaia
1	2	6	2012	29	61	13	1.3	64.4	4.1	7.6	1.0	3.9	0.4	not fire	Bejaia
2	3	6	2012	26	82	22	13.1	47.1	2.5	7.1	0.3	2.7	0.1	not fire	Bejaia
3	4	6	2012	25	89	13	2.5	28.6	1.3	6.9	0.0	1.7	0	not fire	Bejaia
4	5	6	2012	27	77	16	0.0	64.8	3.0	14.2	1.2	3.9	0.5	not fire	Bejaia

Data types of each column:

day	int64
month	int64
year	int64
Temperature	int64
RH	int64
Ws	int64
Rain	float64
FFMC	float64
DMC	float64
DC	object
ISI	float64
BUI	float64
FWI	object
Classes	object
Region	object
dtype:	object

Shape of the dataset (rows, columns):

(244, 15)

Column names:

```
Index(['day', 'month', 'year', 'Temperature', 'RH', 'Ws', 'Rain', 'FFMC',  
      'DMC', 'DC', 'ISI', 'BUI', 'FWI', 'Classes', 'Region'],  
      dtype='object')
```

Dataset Information:

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 244 entries, 0 to 243

Data columns (total 15 columns):

#	Column	Non-Null Count	Dtype
0	day	244 non-null	int64
1	month	244 non-null	int64
2	year	244 non-null	int64
3	Temperature	244 non-null	int64
4	RH	244 non-null	int64
5	Ws	244 non-null	int64
6	Rain	244 non-null	float64
7	FFMC	244 non-null	float64
8	DMC	244 non-null	float64
9	DC	244 non-null	object
10	ISI	244 non-null	float64
11	BUI	244 non-null	float64
12	FWI	244 non-null	object
13	Classes	243 non-null	object
14	Region	244 non-null	object

dtypes: float64(5), int64(6), object(4)

Module 2: Dataset Loaded Successfully!

Missing values in each column:

day	0
month	0
year	0
Temperature	0
RH	0
Ws	0
Rain	0
FFMC	0
DMC	0
DC	0
ISI	0
BUI	0
FWI	1
Classes	244
Region	244
dtype:	int64

Number of duplicate rows: 0

Outliers in day: 0

Outliers in month: 0

Outliers in year: 0

Outliers in Temperature: 2

Outliers in RH: 0

Outliers in Ws: 8

Outliers in Rain : 35

Outliers in FFMC: 16

Outliers in DMC: 12

Outliers in DC: 15

Outliers in ISI: 4

Outliers in BUI: 12

Outliers in FWI: 4

Outliers in Classes : 0

Outliers in Region: 0

Correlation Matrix:

	day	month	Temperature	RH	Ws
day	1.000	0.000	0.096	-0.074	0.047
month	0.000	1.000	-0.059	-0.038	-0.041
Temperature	0.096	-0.059	1.000	-0.654	-0.278
RH	-0.074	-0.038	-0.654	1.000	0.236
Ws	0.047	-0.041	-0.278	0.236	1.000

	Rain	FFMC	DMC	DC
Rain	1.000	-0.544	-0.289	-0.297
FFMC	-0.544	1.000	0.602	0.504
DMC	-0.289	0.602	1.000	0.875
DC	-0.297	0.504	0.875	1.000

	day	month	Temperature	RH	Ws
day	1.000	0.000	0.096	-0.074	0.047
month	0.000	1.000	-0.059	-0.038	-0.041
Temperature	0.096	-0.059	1.000	-0.654	-0.278
RH	-0.074	-0.038	-0.654	1.000	0.236
Ws	0.047	-0.041	-0.278	0.236	1.000

	ISI	BUI	FWI
ISI	1.000	0.636	0.923
BUI	0.636	1.000	0.858
FWI	0.923	0.858	1.000