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Code | JupyterLab | Python 3 (ipykernel)

[1]:
```
import pandas as pd
import os
os.chdir("f:\\")
data=pd.read_csv("Data Cleaning and Preprocessing.csv")
print("concise summary")
data
```

```
concise summary
```

[1]:

	Observation	Y-Kappa	ChipRate	BF-CMratio	BlowFlow	ChipLevel4	T-upperExt-2	T-lowerExt-2	UCZAA	WhiteFlow-4	...	SteamFlow-4	Lower-HeatT-3	Upper-HeatT-3	ChipMass-4	WeakLiq
0	31-00:00	23.10	16.520	121.717	1177.607	169.805	358.282	329.545	1.443	599.253	...	67.122	329.432	303.099	175.964	1127
1	31-01:00	27.60	16.810	79.022	1328.360	341.327	351.050	329.067	1.549	537.201	...	60.012	330.823	304.879	163.202	665
2	31-02:00	23.19	16.709	79.562	1329.407	239.161	350.022	329.260	1.600	549.611	...	61.304	329.140	303.383	164.013	677
3	31-03:00	23.60	16.478	81.011	1334.877	213.527	350.938	331.142	1.604	623.362	...	68.496	328.875	302.254	181.487	767
4	31-04:00	22.90	15.618	93.244	1334.168	243.131	351.640	332.709	NaN	638.672	...	70.022	328.352	300.954	183.929	888
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
319	10-16:00	23.75	12.667	93.450	1178.252	276.955	347.286	310.970	1.523	513.956	...	61.141	330.117	304.006	148.174	1027
320	9-19:00	19.80	12.558	94.352	1184.119	297.071	399.135	319.576	1.451	570.058	...	67.667	330.848	304.616	165.178	906
321	9-20:00	23.01	12.550	90.842	1188.517	289.826	373.633	314.591	1.457	549.306	...	66.446	330.226	304.686	160.841	887
322	9-21:00	24.32	13.083	88.910	1192.879	318.006	364.081	308.559	1.523	504.852	...	61.054	327.346	304.363	147.589	804
323	9-22:00	25.75	13.417	85.451	1186.342	248.312	356.289	310.482	1.474	497.375	...	58.247	328.092	304.093	144.218	828

Nifty midcap -0.95% | Search | ENG IN | 15:26 18-07-2024

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Code | JupyterLab | Python 3 (ipykernel)

323	9-22:00	25.75	13.417	85.451	1186.342	248.312	356.289	310.482	1.474	497.375	...	58.247	328.092	304.093	144.218	828

324 rows × 23 columns

[2]:
```
type(data)
```

[2]:
```
pandas.core.frame.DataFrame
```

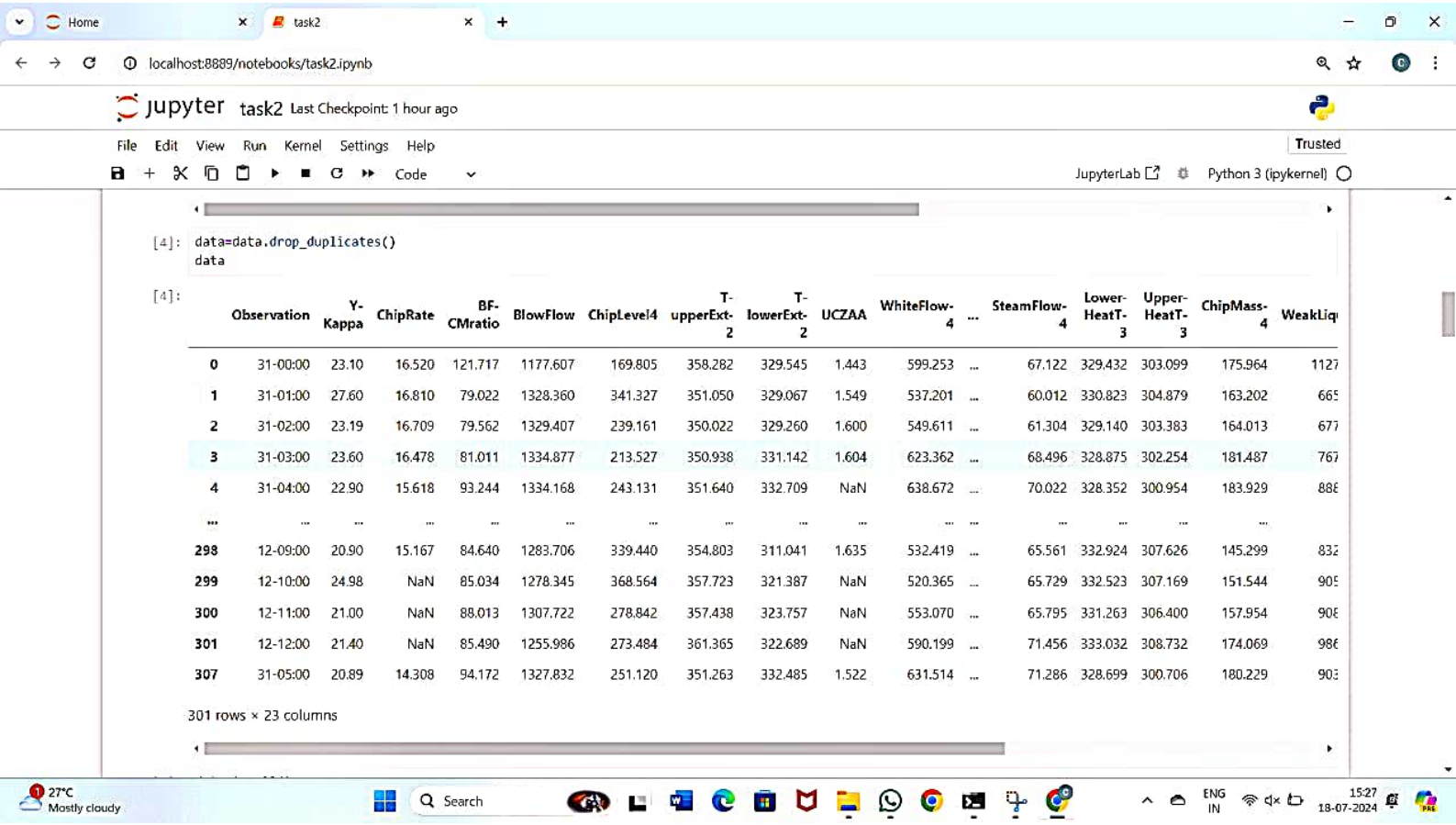
[3]:
```
data.describe()
```

[3]:

	Y-Kappa	ChipRate	BF-CMratio	BlowFlow	ChipLevel4	T-upperExt-2	T-lowerExt-2	UCZAA	WhiteFlow-4	AAWhiteSt-4	...	SteamFlow-4	Lower-HeatT-3	Uppe HeatT
count	324.000000	319.000000	307.000000	308.000000	323.000000	322.000000	322.000000	299.000000	323.000000	173.000000	...	323.000000	322.000000	322.0000
mean	20.635370	14.347937	87.464456	1237.837614	258.164483	356.904295	324.020180	1.492010	591.732260	6.140410	...	66.668285	325.567820	300.5256
std	3.070036	1.499095	7.995012	100.593735	87.987452	9.209290	7.621402	0.105923	67.016351	0.081609	...	5.708587	4.609862	4.5684
min	12.170000	9.983000	68.645000	0.000000	0.000000	339.168000	284.633000	1.182000	405.111000	5.890000	...	48.568000	318.051000	293.3120
25%	18.382500	13.358000	81.823000	1193.215250	213.527000	350.241250	321.420000	1.431500	540.989500	6.089000	...	62.518000	321.385500	296.5132
50%	20.845000	14.308000	86.739000	1273.138500	271.792000	356.843000	325.669000	1.498000	592.895000	6.135000	...	67.429000	324.741000	299.1260
75%	23.032500	15.517000	92.372000	1289.196000	321.680000	362.242250	329.175000	1.560500	639.480500	6.199000	...	71.522000	329.845250	304.2447
max	27.600000	16.958000	121.717000	1351.240000	419.014000	399.135000	337.012000	1.747000	731.394000	6.340000	...	76.147000	333.854000	311.1460

8 rows × 22 columns

27°C Mostly cloudy | Search | ENG IN | 15:27 18-07-2024


Home
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jupyter task2 Last Checkpoint: 1 hour ago
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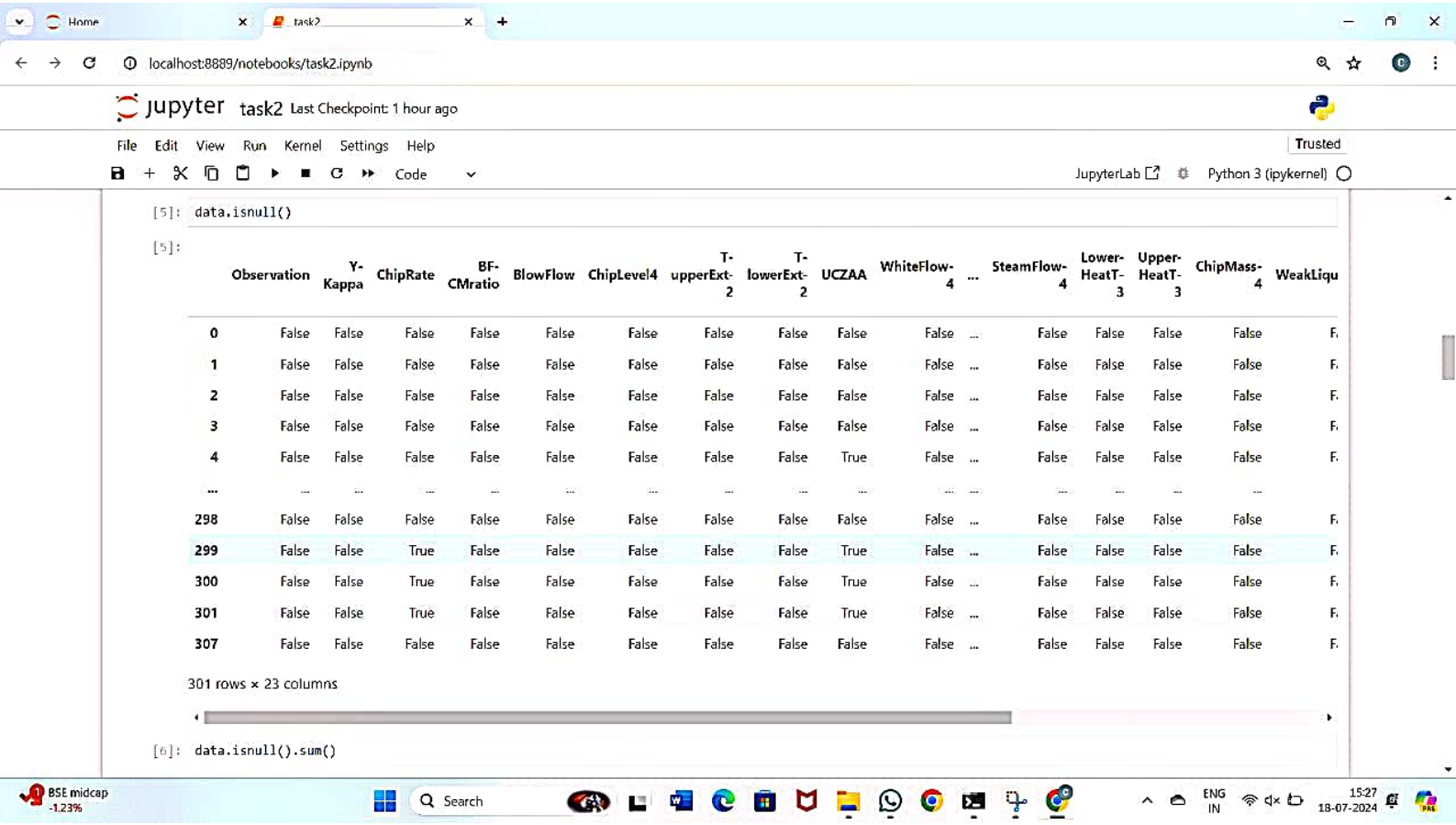
Trusted
Code
JupyterLab
Python 3 (ipykernel)
[4]:
data=data.drop_duplicates()
data
[4]:
Observation Y-Kappa ChipRate BF-CMratio BlowFlow ChipLevel4 T-upperExt-2 T-lowerExt-2 UCZAA WhiteFlow-4 ... SteamFlow-4 Lower-HeatT-3 Upper-HeatT-3 ChipMass-4 WeakLiq
0 31-00:00 23.10 16.520 121.717 1177.607 169.805 358.282 329.545 1.443 599.253 ... 67.122 329.432 303.099 175.964 1127
1 31-01:00 27.60 16.810 79.022 1328.360 341.327 351.050 329.067 1.549 537.201 ... 60.012 330.823 304.879 163.202 665
2 31-02:00 23.19 16.709 79.562 1329.407 239.161 350.022 329.260 1.600 549.611 ... 61.304 329.140 303.383 164.013 677
3 31-03:00 23.60 16.478 81.011 1334.877 213.527 350.938 331.142 1.604 623.362 ... 68.496 328.875 302.254 181.487 767
4 31-04:00 22.90 15.618 93.244 1334.168 243.131 351.640 332.709 NaN 638.672 ... 70.022 328.352 300.954 183.929 888
... ...
298 12-09:00 20.90 15.167 84.640 1283.706 339.440 354.803 311.041 1.635 532.419 ... 65.561 332.924 307.626 145.299 832
299 12-10:00 24.98 NaN 85.034 1278.345 368.564 357.723 321.387 NaN 520.365 ... 65.729 332.523 307.169 151.544 905
300 12-11:00 21.00 NaN 88.013 1307.722 278.842 357.438 323.757 NaN 553.070 ... 65.795 331.263 306.400 157.954 908
301 12-12:00 21.40 NaN 85.490 1255.986 273.484 361.365 322.689 NaN 590.199 ... 71.456 333.032 308.732 174.069 986
307 31-05:00 20.89 14.308 94.172 1327.832 251.120 351.263 332.485 1.522 631.514 ... 71.286 328.699 300.706 180.229 903
301 rows × 23 columns
27°C
Mostly cloudy
Search
ENG
IN
15:27
18-07-2024


Home
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Code
JupyterLab
Python 3 (ipykernel)
[5]: data.isnull()
[5]:
Observation
Y-Kappa
ChipRate
BF-CMratio
BlowFlow
ChipLevel4
T-upperExt-2
T-lowerExt-2
UCZAA
WhiteFlow-4
...
SteamFlow-4
Lower-HeatT-3
Upper-HeatT-3
ChipMass-4
WeakLiqu
0 False False False False False False False False False False ... False False False False F.
1 False False False False False False False False False False ... False False False False F.
2 False False False False False False False False False False ... False False False False F.
3 False False False False False False False False False False ... False False False False F.
4 False False False False False False False False True False ... False False False False F.
... ...
298 False False False False False False False False False False ... False False False False F.
299 False False True False False False False False True False ... False False False False F.
300 False False True False False False False False True False ... False False False False F.
301 False False True False False False False False True False ... False False False False F.
307 False False False False False False False False False False ... False False False False F.
301 rows × 23 columns
[6]: data.isnull().sum()
BSE midcap -1.23%
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Code | JupyterLab | Python 3 (ipykernel)

301 rows × 23 columns

[6]:
```
data.isnull().sum()
```

[6]:
```
Observation          0
Y-Kappa              0
ChipRate             4
BF-CMratio          14
BlowFlow            13
ChipLevel4           1
T-upperExt-2         1
T-lowerExt-2         1
UCZAA               24
WhiteFlow-4          1
AAWhiteSt-4        141
AA-Wood-4            1
ChipMoisture-4       1
SteamFlow-4          1
Lower-HeatT-3        1
Upper-HeatT-3        1
ChipMass-4           1
WeakLiquorF          1
BlackFlow-2          1
WeakWashF            1
SteamHeatF-3         1
T-Top-Chips-4        1
SulphidityL-4      141
dtype: int64
```

[7]:
```
data.notnull()
```

BSE midcap -1.23% | Search | ENG IN | 15:28 18-07-2024

```
SteamHeatF-3        1
T-Top-Chips-4       1
SulphidityL-4     141
dtype: int64
```

[7]:
```
data.notnull()
```

[7]:

	Observation	Y-Kappa	ChipRate	BF-CMratio	BlowFlow	ChipLevel4	T-upperExt-2	T-lowerExt-2	UCZAA	WhiteFlow-4	...	SteamFlow-4	Lower-HeatT-3	Upper-HeatT-3	ChipMass-4	WeakLiqu
0	True	True	True	True	True	True	True	True	True	True	...	True	True	True	True	1
1	True	True	True	True	True	True	True	True	True	True	...	True	True	True	True	1
2	True	True	True	True	True	True	True	True	True	True	...	True	True	True	True	1
3	True	True	True	True	True	True	True	True	True	True	...	True	True	True	True	1
4	True	True	True	True	True	True	True	True	False	True	...	True	True	True	True	1
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
298	True	True	True	True	True	True	True	True	True	True	...	True	True	True	True	1
299	True	True	False	True	True	True	True	True	False	True	...	True	True	True	True	1
300	True	True	False	True	True	True	True	True	False	True	...	True	True	True	True	1
301	True	True	False	True	True	True	True	True	False	True	...	True	True	True	True	1
307	True	True	True	True	True	True	True	True	True	True	...	True	True	True	True	1

301 rows × 23 columns

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Code

JupyterLab Python 3 (ipykernel)

[8]:
```
data.isnull().sum().sum()
```

[8]:
```
352
```

[9]:
```
data2=data.fillna(value=0)
data2
```

[9]:

	Observation	Y-Kappa	ChipRate	BF-CMratio	BlowFlow	ChipLevel4	T-upperExt-2	T-lowerExt-2	UCZAA	WhiteFlow-4	...	SteamFlow-4	Lower-HeatT-3	Upper-HeatT-3	ChipMass-4	WeakLiq
0	31-00:00	23.10	16.520	121.717	1177.607	169.805	358.282	329.545	1.443	599.253	...	67.122	329.432	303.099	175.964	1127
1	31-01:00	27.60	16.810	79.022	1328.360	341.327	351.050	329.067	1.549	537.201	...	60.012	330.823	304.879	163.202	665
2	31-02:00	23.19	16.709	79.562	1329.407	239.161	350.022	329.260	1.600	549.611	...	61.304	329.140	303.383	164.013	677
3	31-03:00	23.60	16.478	81.011	1334.877	213.527	350.938	331.142	1.604	623.362	...	68.496	328.875	302.254	181.487	767
4	31-04:00	22.90	15.618	93.244	1334.168	243.131	351.640	332.709	0.000	638.672	...	70.022	328.352	300.954	183.929	888
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
298	12-09:00	20.90	15.167	84.640	1283.706	339.440	354.803	311.041	1.635	532.419	...	65.561	332.924	307.626	145.299	832
299	12-10:00	24.98	0.000	85.034	1278.345	368.564	357.723	321.387	0.000	520.365	...	65.729	332.523	307.169	151.544	905
300	12-11:00	21.00	0.000	88.013	1307.722	278.842	357.438	323.757	0.000	553.070	...	65.795	331.263	306.400	157.954	908
301	12-12:00	21.40	0.000	85.490	1255.986	273.484	361.365	322.689	0.000	590.199	...	71.456	333.032	308.732	174.069	986
307	31-05:00	20.89	14.308	94.172	1327.832	251.120	351.263	332.485	1.522	631.514	...	71.286	328.699	300.706	180.229	903

Nifty smlcap -1.18%

Search

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Code | JupyterLab | Python 3 (ipykernel)

[10]:
```
data3=data.fillna(method='pad')
data3
```

```
C:\Users\A Chandana\AppData\Local\Temp\ipykernel_1656\713231795.py:1: FutureWarning: DataFrame.fillna with 'method' is deprecated and will raise in a fut
ure version. Use obj.ffill() or obj.bfill() instead.
  data3=data.fillna(method='pad')
```

[10]:

	Observation	Y-Kappa	ChipRate	BF-CMratio	BlowFlow	ChipLevel4	T-upperExt-2	T-lowerExt-2	UCZAA	WhiteFlow-4	...	SteamFlow-4	Lower-HeatT-3	Upper-HeatT-3	ChipMass-4	WeakLiq
0	31-00:00	23.10	16.520	121.717	1177.607	169.805	358.282	329.545	1.443	599.253	...	67.122	329.432	303.099	175.964	1127
1	31-01:00	27.60	16.810	79.022	1328.360	341.327	351.050	329.067	1.549	537.201	...	60.012	330.823	304.879	163.202	665
2	31-02:00	23.19	16.709	79.562	1329.407	239.161	350.022	329.260	1.600	549.611	...	61.304	329.140	303.383	164.013	677
3	31-03:00	23.60	16.478	81.011	1334.877	213.527	350.938	331.142	1.604	623.362	...	68.496	328.875	302.254	181.487	767
4	31-04:00	22.90	15.618	93.244	1334.168	243.131	351.640	332.709	1.604	638.672	...	70.022	328.352	300.954	183.929	888
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
298	12-09:00	20.90	15.167	84.640	1283.706	339.440	354.803	311.041	1.635	532.419	...	65.561	332.924	307.626	145.299	832
299	12-10:00	24.98	15.167	85.034	1278.345	368.564	357.723	321.387	1.635	520.365	...	65.729	332.523	307.169	151.544	905
300	12-11:00	21.00	15.167	88.013	1307.722	278.842	357.438	323.757	1.635	553.070	...	65.795	331.263	306.400	157.954	908
301	12-12:00	21.40	15.167	85.490	1255.986	273.484	361.365	322.689	1.635	590.199	...	71.456	333.032	308.732	174.069	986
307	31-05:00	20.89	14.308	94.172	1327.832	251.120	351.263	332.485	1.522	631.514	...	71.286	328.699	300.706	180.229	903

301 rows × 23 columns

27°C Mostly cloudy | Search | ENG IN | 15:30 18-07-2024

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Code | JupyterLab | Python 3 (ipykernel)

[11]:
```
#FILLING NULL VALUES WITH THE NEXT VALues
data4=data.fillna(method='bfill')
data4
```

```
C:\Users\A Chandana\AppData\Local\Temp\ipykernel_1656\1961695849.py:2: FutureWarning: DataFrame.fillna with 'method' is deprecated and will raise in a fu
ture version. Use obj.ffill() or obj.bfill() instead.
  data4=data.fillna(method='bfill')
```

[11]:

	Observation	Y-Kappa	ChipRate	BF-CMratio	BlowFlow	ChipLevel4	T-upperExt-2	T-lowerExt-2	UCZAA	WhiteFlow-4	...	SteamFlow-4	Lower-HeatT-3	Upper-HeatT-3	ChipMass-4	WeakLiq
0	31-00:00	23.10	16.520	121.717	1177.607	169.805	358.282	329.545	1.443	599.253	...	67.122	329.432	303.099	175.964	1127
1	31-01:00	27.60	16.810	79.022	1328.360	341.327	351.050	329.067	1.549	537.201	...	60.012	330.823	304.879	163.202	665
2	31-02:00	23.19	16.709	79.562	1329.407	239.161	350.022	329.260	1.600	549.611	...	61.304	329.140	303.383	164.013	677
3	31-03:00	23.60	16.478	81.011	1334.877	213.527	350.938	331.142	1.604	623.362	...	68.496	328.875	302.254	181.487	767
4	31-04:00	22.90	15.618	93.244	1334.168	243.131	351.640	332.709	1.436	638.672	...	70.022	328.352	300.954	183.929	888
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
298	12-09:00	20.90	15.167	84.640	1283.706	339.440	354.803	311.041	1.635	532.419	...	65.561	332.924	307.626	145.299	832
299	12-10:00	24.98	14.308	85.034	1278.345	368.564	357.723	321.387	1.522	520.365	...	65.729	332.523	307.169	151.544	905
300	12-11:00	21.00	14.308	88.013	1307.722	278.842	357.438	323.757	1.522	553.070	...	65.795	331.263	306.400	157.954	908
301	12-12:00	21.40	14.308	85.490	1255.986	273.484	361.365	322.689	1.522	590.199	...	71.456	333.032	308.732	174.069	986
307	31-05:00	20.89	14.308	94.172	1327.832	251.120	351.263	332.485	1.522	631.514	...	71.286	328.699	300.706	180.229	903

301 rows × 23 columns

27°C Mostly cloudy | Search | ENG IN | 15:30 18-07-2024

Home | task2

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Code

JupyterLab | Python 3 (ipykernel)

301 rows × 23 columns

[12]:
```
import numpy as np
from scipy import stats
```

[13]:
```
#detect outliers using IQR
data2.columns
```

[13]:
```
Index(['Observation', 'Y-Kappa', 'ChipRate', 'BF-CMratio', 'BlowFlow',
       'ChipLevel4 ', 'T-upperExt-2 ', 'T-lowerExt-2  ', 'UCZAA',
       'WhiteFlow-4 ', 'AAWhiteSt-4 ', 'AA-Wood-4  ', 'ChipMoisture-4 ',
       'SteamFlow-4 ', 'Lower-HeatT-3', 'Upper-HeatT-3 ', 'ChipMass-4 ',
       'WeakLiquorF ', 'BlackFlow-2 ', 'WeakWashF ', 'SteamHeatF-3 ',
       'T-Top-Chips-4 ', 'SulphidityL-4 '],
      dtype='object')
```

[14]:
```
data2.drop(['Observation'],axis=1,inplace=True)
data2.columns
```

[14]:
```
Index(['Y-Kappa', 'ChipRate', 'BF-CMratio', 'BlowFlow', 'ChipLevel4 ',
       'T-upperExt-2 ', 'T-lowerExt-2  ', 'UCZAA', 'WhiteFlow-4 ',
       'AAWhiteSt-4 ', 'AA-Wood-4  ', 'ChipMoisture-4 ', 'SteamFlow-4 ',
       'Lower-HeatT-3', 'Upper-HeatT-3 ', 'ChipMass-4 ', 'WeakLiquorF ',
       'BlackFlow-2 ', 'WeakWashF ', 'SteamHeatF-3 ', 'T-Top-Chips-4 ',
       'SulphidityL-4 '],
      dtype='object')
```

[15]:
```
Q1=data2.quantile(0.25)
Q3=data2.quantile(0.75)
IQR=Q3-Q1
```

BSE smlcap -1.10%

Search

ENG IN 15:30 18-07-2024

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Code | JupyterLab | Python 3 (ipykernel)

```
       'BlackFlow-2 ', 'WeakWashF ', 'SteamHeatF-3 ', 'T-Top-Chips-4 ',
       'SulphidityL-4 '],
      dtype='object')
```

[15]:
```
Q1=data2.quantile(0.25)
Q3=data2.quantile(0.75)
IQR=Q3-Q1
print(IQR)
```

```
Y-Kappa             4.550
ChipRate            2.233
BF-CMratio         10.912
BlowFlow           96.766
ChipLevel4        105.868
T-upperExt-2       11.994
T-lowerExt-2        7.609
UCZAA               0.152
WhiteFlow-4       100.098
AAWhiteSt-4         6.143
AA-Wood-4           1.486
ChipMoisture-4      2.186
SteamFlow-4         8.840
Lower-HeatT-3       8.585
Upper-HeatT-3       7.852
ChipMass-4         19.347
WeakLiquorF       180.613
BlackFlow-2       280.829
WeakWashF         267.219
SteamHeatF-3        6.903
T-Top-Chips-4       2.044
SulphidityL-4      30.420
dtype: float64
```

[16]:
```
data2=data2[~((data2<(Q1-1.5*IQR))|(data2>(Q3+1.5*IQR))).any(axis=1)]
```

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```
WeakWashF          267.219
SteamHeatF-3         6.903
T-Top-Chips-4        2.044
SulphidityL-4       30.420
dtype: float64
```

[16]:
```
data2=data2[~((data2<(Q1-1.5*IQR))|(data2>(Q3+1.5*IQR))).any(axis=1)]
data2
```

[16]:

	Y-Kappa	ChipRate	BF-CMratio	BlowFlow	ChipLevel4	T-upperExt-2	T-lowerExt-2	UCZAA	WhiteFlow-4	AAWhiteSt-4	...	SteamFlow-4	Lower-HeatT-3	Upper-HeatT-3	ChipMass-4	WeakLiqu
1	27.60	16.810	79.022	1328.360	341.327	351.050	329.067	1.549	537.201	6.076	...	60.012	330.823	304.879	163.202	665.
2	23.19	16.709	79.562	1329.407	239.161	350.022	329.260	1.600	549.611	0.000	...	61.304	329.140	303.383	164.013	677.
3	23.60	16.478	81.011	1334.877	213.527	350.938	331.142	1.604	623.362	6.054	...	68.496	328.875	302.254	181.487	767.
5	14.23	15.350	85.518	1171.604	198.538	344.014	325.195	1.436	628.245	6.020	...	65.225	322.103	298.517	165.814	826.
6	13.49	13.700	98.186	1243.688	116.275	346.208	326.982	1.434	696.766	0.000	...	72.989	322.982	296.080	182.018	784.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
276	22.70	15.517	83.008	1288.010	306.886	350.155	322.485	1.590	568.752	6.170	...	67.678	331.854	309.346	160.061	910.
296	20.50	13.358	97.662	1304.597	377.678	347.672	313.147	1.546	496.460	6.340	...	60.119	332.615	308.575	141.076	997.
297	20.40	14.233	89.790	1278.006	379.458	354.290	315.558	1.515	491.374	0.000	...	60.424	331.980	308.078	140.301	975.
298	20.90	15.167	84.640	1283.706	339.440	354.803	311.041	1.635	532.419	6.340	...	65.561	332.924	307.626	145.299	832.
307	20.89	14.308	94.172	1327.832	251.120	351.263	332.485	1.522	631.514	0.000	...	71.286	328.699	300.706	180.229	903.

226 rows × 22 columns

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Code | JupyterLab | Python 3 (ipykernel)

226 rows × 22 columns

[17]:
```
data2.describe()
```

[17]:

	Y-Kappa	ChipRate	BF-CMratio	BlowFlow	ChipLevel4	T-upperExt-2	T-lowerExt-2	UCZAA	WhiteFlow-4	AAWhiteSt-4	...	SteamFlow-4	Lower-HeatT-3	Uppe HeatT
count	226.000000	226.000000	226.000000	226.000000	226.000000	226.000000	226.000000	226.000000	226.000000	226.000000	...	226.000000	226.000000	226.0000
mean	20.690487	14.673491	85.882181	1255.288916	264.664912	356.861681	325.341124	1.487146	603.242482	3.098164	...	67.545478	324.752212	299.6554
std	2.982916	1.297369	7.033155	47.896055	74.345135	7.466897	5.557537	0.108054	61.052197	3.078138	...	4.914301	4.526481	4.3837
min	12.480000	10.833000	68.645000	1084.083000	61.783000	340.222000	310.421000	1.182000	468.841000	0.000000	...	52.962000	318.051000	293.3120
25%	18.457500	13.850000	80.984000	1221.926000	220.356000	350.704250	322.355500	1.429000	549.611000	0.000000	...	63.954000	321.179500	296.3385
50%	20.775000	14.729000	84.967000	1280.291500	270.965000	357.560500	326.508500	1.492000	602.508000	5.904500	...	68.147000	322.380000	297.6365
75%	23.010000	15.708000	91.178750	1289.254000	322.492000	361.555000	329.264500	1.556000	653.358500	6.140000	...	71.760750	329.575000	303.7770
max	27.600000	16.958000	108.104000	1351.240000	419.014000	375.047000	337.012000	1.712000	731.394000	6.340000	...	75.974000	333.223000	309.8540

8 rows × 22 columns

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