

task2

localhost:8889/notebooks/task2.ipynb

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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	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	886
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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	826

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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 x 23 columns

[2]: type(data)

[2]: pandas.core.frame.DataFrame

[3]: data.describe()

	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	322.000000
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	300.525610
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	4.568410
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	293.312000
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	296.513210
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	299.126000
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	304.244710
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	311.146000

8 rows x 22 columns

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data.null()

[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 x 23 columns

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JupyterLab Python 3 (ipykernel)

301 rows x 23 columns

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

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-HeatI-3	1
Upper-HeatI-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()
```

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Python 3 (ipykernel)

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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 x 23 columns

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

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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
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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	988
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 x 23 columns

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