

task2

localhost:8889/notebooks/task2.ipynb

jupyter task2 Last Checkpoint: 1 hour ago

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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	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

15:26 18-07-2024

task2

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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 ... 58.247 328.092 304.093 144.218 825

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	UppeHeatT
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

27°C Mostly cloudy

Search

15:27 18-07-2024

task2

localhost:8889/notebooks/task2.ipynb

Jupyter task2 Last Checkpoint: 1 hour ago

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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	671
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
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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	906
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 x 23 columns

27°C Mostly cloudy

Search

WhatsApp

Chrome

Edge

Firefox

VS Code

PowerShell

Terminal

Task Manager

System Monitor

Network Monitor

Disk Usage

Memory Usage

CPU Usage

GPU Usage

Audio Device

Video Device

Keyboard Layout

Mouse Settings

Display Resolution

Sound Output

Input Devices

Regional Settings

Language Settings

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System Updates

Device Manager

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Event Viewer

Windows Defender

Windows Firewall

Windows Update

Windows Security

Windows Backup

Windows Recovery

Windows Troubleshooting

Windows Diagnostics

Windows Performance

Windows Reliability

Windows Storage Spaces

Windows Virtual Machine

Windows Hyper-V

Windows RemoteApp

Windows Remote Desktop

Windows Remote Assistance

Windows Remote Explorer

Windows Remote Shell

Windows Remote Tools

Windows Remote Services

Windows Remote Sessions

Windows Remote Connections

Windows Remote Channels

Windows Remote Endpoints

Windows Remote Clients

Windows Remote Servers

Windows Remote Gateways

Windows Remote Proxies

Windows Remote Load Balancers

Windows Remote Firewalls

Windows Remote Routers

Windows Remote Switches

Windows Remote Hubs

Windows Remote Bridges

Windows Remote Tunnels

Windows Remote VPNs

Windows Remote WANs

Windows Remote LANs

Windows Remote WLANs

Windows Remote Bluetooth

Windows Remote NFC

Windows Remote USB

Windows Remote FireWire

Windows Remote Thunderbolt

Windows Remote Serial

Windows Remote Parallel

Windows Remote SCSI

Windows Remote Fibre Channel

Windows Remote InfiniBand

Windows Remote PCI Express

Windows Remote SATA

Windows Remote IDE

Windows Remote ATA

Windows Remote EIDE

Windows Remote UATA

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task2

localhost:8889/notebooks/task2.ipynb

jupyter task2 Last Checkpoint: 1 hour ago

File Edit View Run Kernel Settings Help

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.

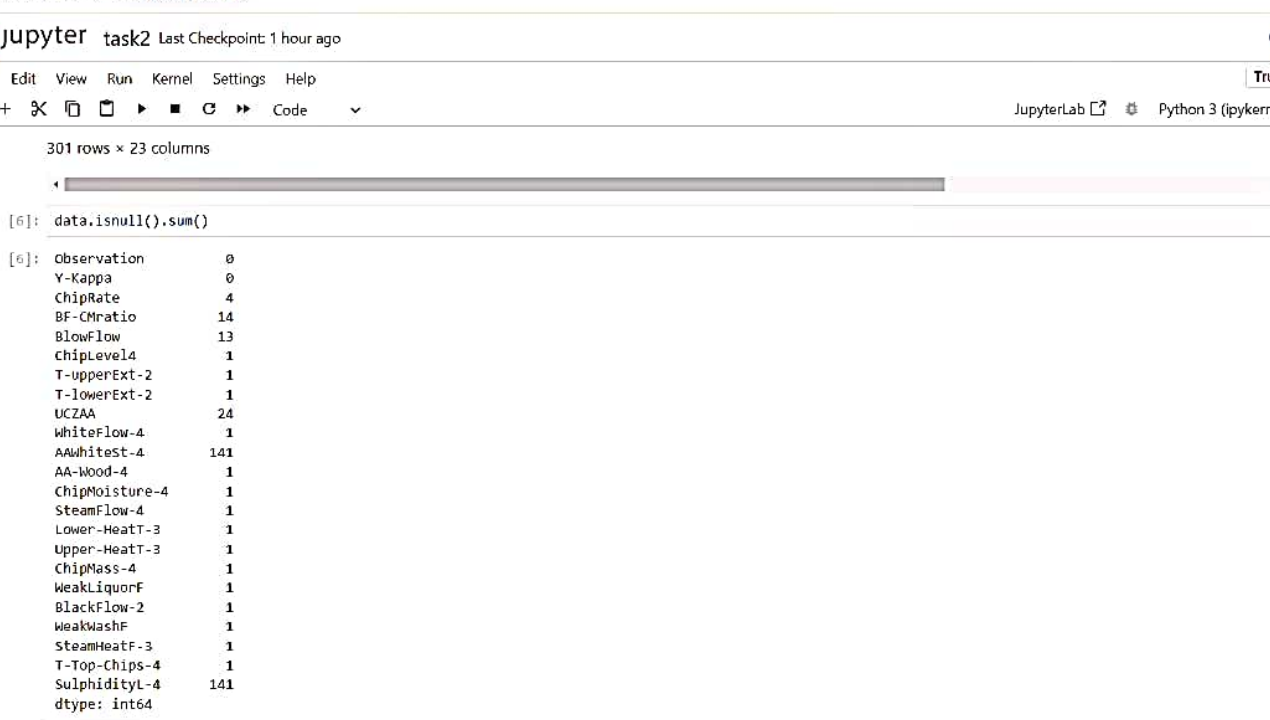
301 rows x 23 columns

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

BSE midcap -1.23%

Search

15:27 18-07-2024



The screenshot displays a JupyterLab environment with a single notebook open. The notebook's title bar indicates it is a 'task2' notebook, last checkpointed 1 hour ago. The interface includes a menu bar (File, Edit, View, Run, Kernel, Settings, Help) and a toolbar with various icons for file operations and execution. The main area shows a code cell with the command `data.isnull().sum()` and its output. The output is a series of variable names and their corresponding null counts, indicating that most variables have 0 null values, except for 'AAwhitest-4' which has 141 null values. The dtype is int64. The bottom of the screen shows a Windows taskbar with various application icons and system information.

```
301 rows x 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()
```

task2

localhost:8889/notebooks/task2.ipynb

jupyter task2 Last Checkpoint: 1 hour ago

File Edit View Run Kernel Settings Help

Python 3 (ipykernel)

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

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

```
[7]:
```

	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	WeakLiqu
0		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	1
2		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	1
4		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	1
299		True	True	False	True	True	True	True	False	True	...	True	True	True	True	1
300		True	True	False	True	True	True	True	False	True	...	True	True	True	True	1
301		True	True	False	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	1

301 rows x 23 columns

Nifty smicap -1.18%

Search

ENG IN 15:29 18-07-2024

task2

localhost:8889/notebooks/task2.ipynb

jupyter task2 Last Checkpoint: 1 hour ago

File Edit View Run Kernel Settings Help

JupyterLab Python 3 (ipykernel)

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

[8]: 352

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

[9]:

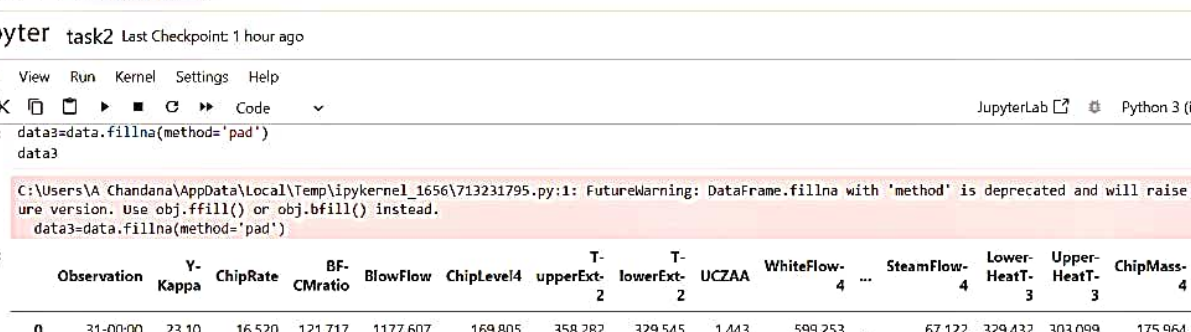
	Observation	Y-Kappa	ChipRate	BF-CMratio	BlowFlow	ChipLevel4	T-upperExt-2	T-lowerExt-2	UCZAA	WhiteFlow-4	...	SteamFlow-4	Lower-HeatT-3	Upper-HeatT-3	ChipMass-4	WeakLiq
0	31-00:00	23.10	16.520	121.717	1177.607	169.805	358.282	329.545	1.443	599.253	...	67.122	329.432	303.099	175.964	1127
1	31-01:00	27.60	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	906
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 smicap -1.18%

Search

15:29 18-07-2024





The screenshot shows a JupyterLab window with a single code cell. The code cell contains the following text:

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

Below the code, a pink warning box is displayed:

C:\Users\A Chandana\AppData\Local\Temp\ipykernel\_1656\713231795.py:1: FutureWarning: DataFrame.fillna with 'method' is deprecated and will raise in a future version. Use obj.ffill() or obj.bfill() instead.

data3=data.fillna(method='pad')

Below the warning, a preview of the data frame is shown:

```
[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	886
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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	906
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 x 23 columns



The screenshot shows a Jupyter Notebook window titled 'task2' with a 'Python 3 (ipykernel)' environment. The notebook contains a code cell with the following text:

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

Below the code, a warning message is displayed in a pink box:

C:\Users\A Chandana\AppData\Local\Temp\ipykernel\_1656\1961695849.py:2: FutureWarning: DataFrame.fillna with 'method' is deprecated and will raise in a future version. Use obj.ffill() or obj.bfill() instead.

```
data4=data.fillna(method='bfill')
```

The output of the code is a table with 17 columns and 301 rows. The columns are: Observation, Y-Kappa, ChipRate, BF-CMratio, BlowFlow, ChipLevel4, upperExt-2, lowerExt-2, UCZAA, WhiteFlow-4, SteamFlow-4, Lower-HeatT-3, Upper-HeatT-3, ChipMass-4, and WeakLiq. The table shows data for observations 0, 1, 2, 3, 4, ..., 298, 299, 300, 301, 307. The first five rows of data are as follows:

Observation	Y-Kappa	ChipRate	BF-CMratio	BlowFlow	ChipLevel4	upperExt-2	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
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
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
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
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

The table continues with rows 298, 299, 300, 301, and 307, showing similar data patterns. The bottom of the notebook shows the status '301 rows x 17 columns'.

task2

localhost:8889/notebooks/task2.ipynb

jupyter task2 Last Checkpoint: 1 hour ago

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JupyterLab Python 3 (ipykernel)

301 rows x 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 smicap -1.10%

Search

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task2

localhost:8889/notebooks/task2.ipynb

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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<=(01-1.5*IQR))|((data2>(03+1.5*IQR))).any(axis=1))]
```

BSE smicap -1.10%

Search

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The screenshot displays a Jupyter Notebook window titled 'task2' with a 'Last Checkpoint: 1 hour ago' status. The interface includes a top menu bar (File, Edit, View, Run, Kernel, Settings, Help) and a toolbar with icons for file operations and execution. The notebook content shows a code cell with the following output:

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

Below this, a code cell contains the line: `[16]: data2=data2[~((data2<(Q1-1.5*IQR))|(data2>(Q3+1.5*IQR))).any(axis=1)]`. The subsequent output cell displays a large table of data with 16 columns and 22 rows. The columns are labeled: Y-Kappa, ChipRate, BF-CRatio, BlowFlow, ChipLevel4, upperExt-2, lowerExt-2, UCZAA, WhiteFlow-4, AAWWhiteSt-4, SteamFlow-4, Lower-HeatT-3, Upper-HeatT-3, ChipMass-4, and WeakLiqu. The rows are indexed from 1 to 307, with some rows (276, 296, 297, 298, 307) highlighted in blue. The bottom status bar indicates '226 rows x 22 columns'.

	Y-Kappa	ChipRate	BF-CRatio	BlowFlow	ChipLevel4	upperExt-2	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.

task2

localhost:8889/notebooks/task2.ipynb

jupyter task2 Last Checkpoint: 1 hour ago

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Python 3 (ipykernel)

226 rows x 22 columns

[17]: data2.describe()

[17]:

	Y-Kappa	ChipRate	BF-CMratio	BlowFlow	ChipLevel4	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	226.000000
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	4.38371
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	293.31200
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	296.33850
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	297.63650
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	303.77700
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	309.85400

8 rows x 22 columns

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