

News API

```
import requests

url =
"https://reuters-business-and-financial-news.p.rapidapi.com/market-
rics/list-rics-by-asset-and-category/1/1"

headers = {
    "x-rapidapi-key":
    "5bb4e6d050msh73b0862282edf6cp1040cbjsn3ed74515d20c",
    "x-rapidapi-host": "reuters-business-and-financial-
news.p.rapidapi.com"
}

response = requests.get(url, headers=headers)

result=response.json()

import pandas as pd
newsdata=pd.DataFrame(result)
newsdata.head()

  statusCode  marketAsset marketCategory \
0          200  Commodities  Agriculture

                                assetData
0  {'typeName': 'Commodity Future', 'rics': ['Cc1...

newsdata.to_csv("News_Data.csv")
```

Random Fox

```
import requests
page=requests.get('https://randomfox.ca/floof')

print(page)

<Response [200]>

result=page.json()
print(result)

{'image': 'https://randomfox.ca/images/83.jpg', 'link':
'https://randomfox.ca/?i=83'}

result['image']

'https://randomfox.ca/images/83.jpg'
```

Wheather API

```

import requests
page1=requests.get(' http://api.weatherapi.com/v1/current.json?
key=e89d108d6cca414ca8b90453252003&q=Tumkur')

print(page1)

<Response [200]>

result1=page1.json()
print(result1)

{'location': {'name': 'Tumkur', 'region': 'Karnataka', 'country':
'India', 'lat': 13.3422, 'lon': 77.1017, 'tz_id': 'Asia/Kolkata',
'localtime_epoch': 1742462043, 'localtime': '2025-03-20 14:44'},
'current': {'last_updated_epoch': 1742461200, 'last_updated': '2025-
03-20 14:30', 'temp_c': 34.6, 'temp_f': 94.2, 'is_day': 1,
'condition': {'text': 'Sunny', 'icon':
'//cdn.weatherapi.com/weather/64x64/day/113.png', 'code': 1000},
'wind_mph': 9.4, 'wind_kph': 15.1, 'wind_degree': 113, 'wind_dir':
'ESE', 'pressure_mb': 1011.0, 'pressure_in': 29.85, 'precip_mm': 0.0,
'precip_in': 0.0, 'humidity': 18, 'cloud': 4, 'feelslike_c': 32.7,
'feelslike_f': 90.8, 'windchill_c': 34.6, 'windchill_f': 94.2,
'heatindex_c': 32.7, 'heatindex_f': 90.8, 'dewpoint_c': 6.6,
'dewpoint_f': 43.9, 'vis_km': 10.0, 'vis_miles': 6.0, 'uv': 9.2,
'gust_mph': 10.8, 'gust_kph': 17.4}}

result1['location']

{'name': 'Tumkur',
'region': 'Karnataka',
'country': 'India',
'lat': 13.3422,
'lon': 77.1017,
'tz_id': 'Asia/Kolkata',
'localtime_epoch': 1742462043,
'localtime': '2025-03-20 14:44'}

result1['current']

{'last_updated_epoch': 1742461200,
'last_updated': '2025-03-20 14:30',
'temp_c': 34.6,
'temp_f': 94.2,
'is_day': 1,
'condition': {'text': 'Sunny',
'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png',
'code': 1000},
'wind_mph': 9.4,
'wind_kph': 15.1,
'wind_degree': 113,
'wind_dir': 'ESE',

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'pressure_mb': 1011.0,
'pressure_in': 29.85,
'precip_mm': 0.0,
'precip_in': 0.0,
'humidity': 18,
'cloud': 4,
'feelslike_c': 32.7,
'feelslike_f': 90.8,
'windchill_c': 34.6,
'windchill_f': 94.2,
'heatindex_c': 32.7,
'heatindex_f': 90.8,
'dewpoint_c': 6.6,
'dewpoint_f': 43.9,
'vis_km': 10.0,
'vis_miles': 6.0,
'uv': 9.2,
'gust_mph': 10.8,
'gust_kph': 17.4}
```

```
import requests
page2=requests.get('https://api.coincap.io/v2/assets')
```

```
print(page2)
```

```
<Response [200]>
```

```
result2=page2.json()
print(result2)
```

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'changePercent24Hr': '2.8303323148418100', 'vwap24Hr':
'85201.0651284456121972', 'explorer': 'https://blockchain.info/'},
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'https://xrpcharts.ripple.com/#/graph/'}}, {'id': 'tether', 'rank':  
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'617.6091689478402690', 'explorer':  
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'https://app.dragonglass.me/hedera/home'}, {'id': 'avalanche', 'rank':  
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'explorer':
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```
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```



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'changePercent24Hr': '-3.2304615987758170', 'vwap24Hr':
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'changePercent24Hr': '1.4445579345802607', 'vwap24Hr':
'0.1535576768069090', 'explorer':
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'1.8745983524101705', 'explorer':
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'}], 'timestamp': 1742464852371}
```

```
l=result2['data']
import pandas as pd
mydata=pd.DataFrame(l)
```

```
mydata.head()
```

	id	rank	symbol	name	supply \
0	bitcoin	1	BTC	Bitcoin	19839400.0000000000000000

1	ethereum	2	ETH	Ethereum	120629195.42695649000000000
2	xrp	3	XRP	XRP	58108919817.00000000000000000
3	tether	4	USDT	Tether	143653509034.06530000000000000
4	binance-coin	5	BNB	BNB	144006830.00000000000000000

	maxSupply	marketCapUsd	\
0	21000000.00000000000000000	1704168200554.4520080019363800	
1	None	242031355391.3720702848136771	
2	100000000000.00000000000000000	145960734522.5295277496239365	
3	None	143728517967.1744749903120368	
4	144006830.00000000000000000	91531922671.6425422206243280	

	volumeUsd24Hr	priceUsd	changePercent24Hr	\
0	10145317898.1131987490526916	85898.1723517068060527	2.8303323148418100	
1	6627561502.6680493086155465	2006.4077732983565868	3.1986945441209031	
2	3370529495.9001892693635473	2.5118473202082845	8.4563590913032227	
3	24672991788.0754977566478805	1.0005221517637372	0.1295580928142678	
4	557712384.9752122502527518	635.6082046361449816	3.3648881258129906	

	vwap24Hr	explorer
0	85201.0651284456121972	https://blockchain.info/
1	2023.0357853491439004	https://etherscan.io/
2	2.4898083714762087	https://xrpcharts.ripple.com/#/graph/
3	0.9999677996084417	https://www.omniexplorer.info/asset/31
4	617.6091689478402690	https://etherscan.io/token/0xB8c77482e45F1F44d...

mydata.to_csv(r"C:\My python Files\Data.csv")

mydata.describe(include='all')

	id	rank	symbol	name	supply	\
count	100	100	100	100	100	
unique	100	100	100	100	100	
top	bitcoin	1	BTC	Bitcoin	19839400.00000000000000000	
freq	1	1	1	1	1	

		maxSupply		marketCapUsd	\
count		44		100	
unique		35		100	
top	21000000.000000000000000000	1704168200554.4520080019363800			
freq		3		1	

		volumeUsd24Hr		priceUsd	\
count		100		100	
unique		100		100	
top	10145317898.1131987490526916	85898.1723517068060527			
freq		1		1	

		changePercent24Hr		vwap24Hr
explorer				
count		100		98
89				
unique		100		98
89				
top	2.8303323148418100	85201.0651284456121972		
https://blockchain.info/				
freq		1		1
1				

mydata.info()

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

RangeIndex: 100 entries, 0 to 99

Data columns (total 12 columns):

#	Column	Non-Null Count	Dtype
---	-----	-----	-----
0	id	100 non-null	object
1	rank	100 non-null	object
2	symbol	100 non-null	object
3	name	100 non-null	object
4	supply	100 non-null	object
5	maxSupply	44 non-null	object
6	marketCapUsd	100 non-null	object
7	volumeUsd24Hr	100 non-null	object
8	priceUsd	100 non-null	object
9	changePercent24Hr	100 non-null	object
10	vwap24Hr	98 non-null	object
11	explorer	89 non-null	object

dtypes: object(12)

memory usage: 9.5+ KB

pd1=pd.read_csv("C:\My python Files\Data.csv")

import matplotlib.pyplot as plt

import seaborn as sns

```
pd1.isnull().sum()
```

```
Unnamed: 0      0
id              0
rank            0
symbol          0
name            0
supply          0
maxSupply       56
marketCapUsd    0
volumeUsd24Hr   0
priceUsd        0
changePercent24Hr 0
vwap24Hr        2
explorer        11
dtype: int64
```

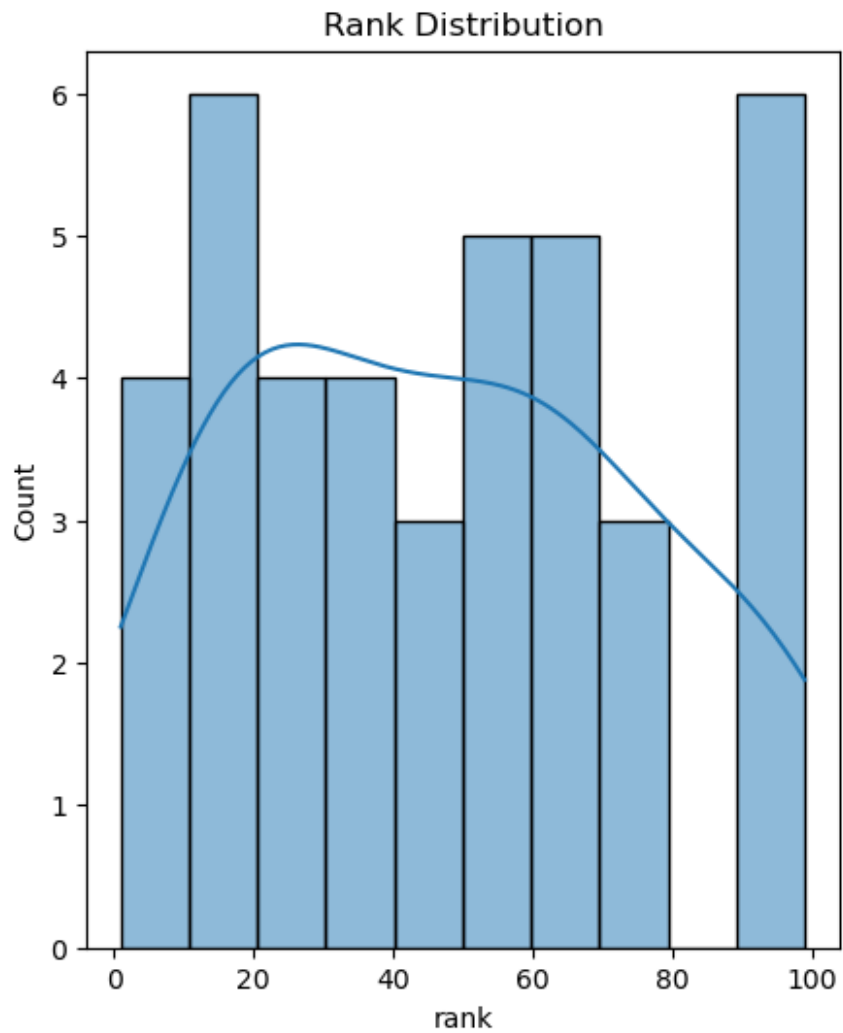
```
pd1.dropna(inplace=True)
pd1.isnull().sum()
```

```
Unnamed: 0      0
id              0
rank            0
symbol          0
name            0
supply          0
maxSupply       0
marketCapUsd    0
volumeUsd24Hr   0
priceUsd        0
changePercent24Hr 0
vwap24Hr        0
explorer        0
dtype: int64
```

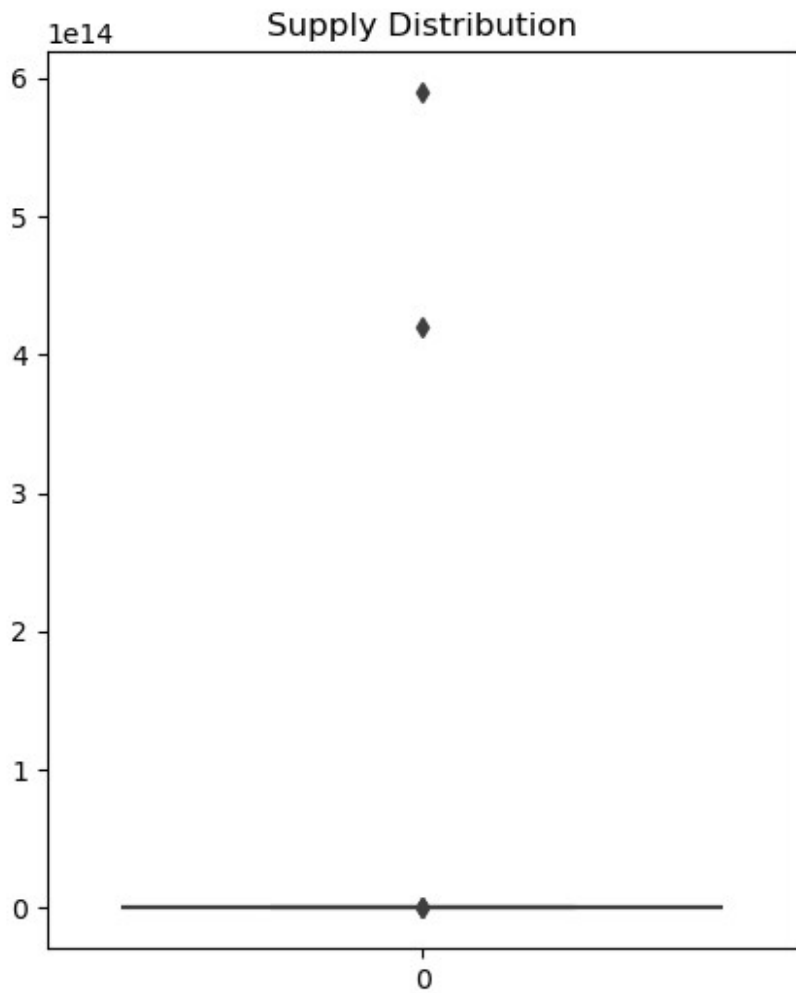
```
plt.figure(figsize=(5,6))
sns.histplot(pd1['rank'],kde=True,bins=10)
plt.title("Rank Distribution")
plt.show()
```

```
C:\Users\DELL\anaconda3\Lib\site-packages\seaborn\_oldcore.py:1119:
FutureWarning: use_inf_as_na option is deprecated and will be removed
in a future version. Convert inf values to NaN before operating
instead.
```

```
    with pd.option_context('mode.use_inf_as_na', True):
```

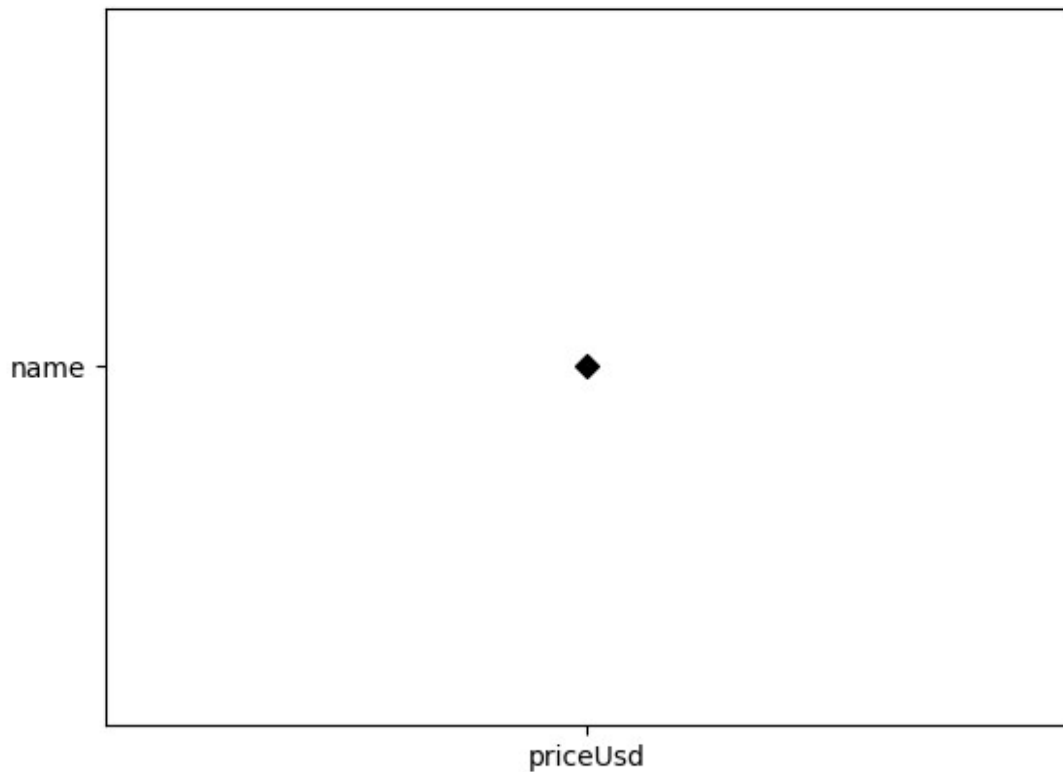


```
plt.figure(figsize=(5,6))
sns.boxplot(pd1['maxSupply'])
plt.title("Supply Distribution")
plt.show()
```



Create the Scatter plot between Name and the Price

```
p=['priceUsd']  
n=['name']  
plt.scatter(p,n,color='k',label='b score',marker='D')  
<matplotlib.collections.PathCollection at 0x241410e4d90>
```



Filter the data Where the price is less than 2 and plot a scatter plot

```
filt=(pd1[pd1['priceUsd']<2])
filt.head()
```

	Unnamed: 0	id	rank	symbol	name	supply
8	8	cardano	9	ADA	Cardano	3.523480e+10
15	15	stellar	16	XLM	Stellar	3.075455e+10
16	16	hedera-hashgraph	17	HBAR	Hedera	4.190396e+10
19	19	shiba-inu	20	SHIB	Shiba Inu	5.892529e+14
32	32	pepe	33	PEPE	Pepe	4.206899e+14

	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd
changePercent24Hr \				
8	4.500000e+10	2.583496e+10	5.076330e+08	0.733223
2.445235				
15	5.000181e+10	8.850370e+09	1.673737e+08	0.287774
3.702626				
16	5.000000e+10	8.139545e+09	1.091022e+08	0.194243
2.705729				

```
19  5.895527e+14  7.609630e+09  5.999405e+07  0.000013
2.605593
32  4.206900e+14  3.191360e+09  4.627958e+08  0.000008
4.046468
```

```
vwap24Hr explorer
8  0.732204 https://cardanoexplorer.com/
15 0.288359 https://dashboard.stellar.org/
16 0.193989 https://app.dragonglass.me/hedera/home
19 0.000013 https://etherscan.io/token/0x95ad61b0a150d7921...
32 0.000007 https://etherscan.io/token/0x6982508145454ce32...
```

```
import matplotlib.pyplot as plt
Name=(filt['name'])
price=(filt['priceUsd'])
plt.figure(figsize=(20,5))
plt.scatter(Name,price,color='k',label='name vs price',marker='D')
plt.xlabel("Name")
plt.ylabel("Price")
plt.grid()
plt.legend()
```

<matplotlib.legend.Legend at 0x241448d0490>

