One-Hot-Encoding:

Encoding

Converting categorical data into numerical data

```python
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.preprocessing import OneHotEncoder

df=pd.read_csv(r"C:\Users\DELL\Downloads\Salary_EDA.csv")
df.head()

    Age  Gender Education Level         Job Title  Years of
Experience  \
0  32.0    Male       Bachelor's  Software Engineer
5.0
1  28.0  Female         Master's      Data Analyst
3.0
2  45.0    Male             PhD    Senior Manager
15.0
3  36.0  Female       Bachelor's   Sales Associate
7.0
4  36.0  Female       Bachelor's   Sales Associate
7.0

     Salary
0   90000.0
1   65000.0
2  150000.0
3   60000.0
4   60000.0
```

Filter Categorical feature

```python
categorical_cols=['Education Level']
```

Define and apply Encoder

```python
encoder=OneHotEncoder(drop=None,sparse_output=False)

encoder_data=encoder.fit_transform(df[categorical_cols])

print(encoder_data)
```

```
[[1. 0. 0. 0.]
 [0. 1. 0. 0.]
 [0. 0. 1. 0.]
 ...
 [1. 0. 0. 0.]
 [1. 0. 0. 0.]
 [0. 0. 1. 0.]]
```

```
encoded_df=pd.DataFrame(encoder_data,
columns=encoder.get_feature_names_out(categorical_cols))
encoded_df.head()
```

```
   Education Level_Bachelor's  Education Level_Master's  Education
Level_PhD  \
0                         1.0                       0.0
0.0
1                         0.0                       1.0
0.0
2                         0.0                       0.0
1.0
3                         1.0                       0.0
0.0
4                         1.0                       0.0
0.0

   Education Level_nan
0                  0.0
1                  0.0
2                  0.0
3                  0.0
4                  0.0
```

```
encoded_df.drop(columns=['Education Level_nan'],inplace=True)
encoded_df.head()
```

```
   Education Level_Bachelor's  Education Level_Master's  Education
Level_PhD
0                         1.0                       0.0
0.0
1                         0.0                       1.0
0.0
2                         0.0                       0.0
1.0
3                         1.0                       0.0
0.0
4                         1.0                       0.0
0.0
```

```
final_df=pd.concat([df,encoded_df],axis=1)
final_df.head()
```

```
    Age  Gender Education Level           Job Title  Years of
Experience  \
0  32.0    Male      Bachelor's  Software Engineer
5.0
1  28.0  Female        Master's       Data Analyst
3.0
2  45.0    Male            PhD      Senior Manager
15.0
3  36.0  Female      Bachelor's     Sales Associate
7.0
4  36.0  Female      Bachelor's     Sales Associate
7.0

     Salary  Education Level_Bachelor's  Education Level_Master's  \
0   90000.0                         1.0                       0.0
1   65000.0                         0.0                       1.0
2  150000.0                         0.0                       0.0
3   60000.0                         1.0                       0.0
4   60000.0                         1.0                       0.0

   Education Level_PhD
0                  0.0
1                  0.0
2                  1.0
3                  0.0
4                  0.0
```

Label Encoder

```python
from sklearn.preprocessing import LabelEncoder

df1=pd.read_csv(r"C:\Users\DELL\Downloads\Salary_EDA.csv")
df1.head()
```

```
    Age  Gender Education Level           Job Title  Years of
Experience  \
0  32.0    Male      Bachelor's  Software Engineer
5.0
1  28.0  Female        Master's       Data Analyst
3.0
2  45.0    Male            PhD      Senior Manager
15.0
3  36.0  Female      Bachelor's     Sales Associate
7.0
4  36.0  Female      Bachelor's     Sales Associate
7.0

     Salary
0   90000.0
1   65000.0
```

```
2  150000.0
3   60000.0
4   60000.0

le=LabelEncoder()
df1['Gender_e']=le.fit_transform(df['Gender'])
df1.head()

     Age  Gender Education Level         Job Title  Years of
Experience  \
0  32.0    Male       Bachelor's  Software Engineer
5.0
1  28.0  Female         Master's       Data Analyst
3.0
2  45.0    Male              PhD     Senior Manager
15.0
3  36.0  Female       Bachelor's    Sales Associate
7.0
4  36.0  Female       Bachelor's    Sales Associate
7.0

      Salary  Gender_e
0   90000.0         1
1   65000.0         0
2  150000.0         1
3   60000.0         0
4   60000.0         0

le1=LabelEncoder()
df1['Education_e']=le.fit_transform(df['Education Level'])
df1.head()

     Age  Gender Education Level         Job Title  Years of
Experience  \
0  32.0    Male       Bachelor's  Software Engineer
5.0
1  28.0  Female         Master's       Data Analyst
3.0
2  45.0    Male              PhD     Senior Manager
15.0
3  36.0  Female       Bachelor's    Sales Associate
7.0
4  36.0  Female       Bachelor's    Sales Associate
7.0

      Salary  Gender_e  Education_e
0   90000.0         1            0
1   65000.0         0            1
2  150000.0         1            2
```

```
3    60000.0              0                0
4    60000.0              0                0
```

Standardization

Min-Max Scaling

```
from sklearn.preprocessing import MinMaxScaler

df2=pd.read_csv(r"C:\Users\DELL\Downloads\Salary_EDA.csv")
df2.head()

    Age  Gender Education Level           Job Title  Years of
Experience  \
0  32.0    Male      Bachelor's  Software Engineer
5.0
1  28.0  Female        Master's       Data Analyst
3.0
2  45.0    Male            PhD      Senior Manager
15.0
3  36.0  Female      Bachelor's     Sales Associate
7.0
4  36.0  Female      Bachelor's     Sales Associate
7.0

      Salary
0    90000.0
1    65000.0
2   150000.0
3    60000.0
4    60000.0

le2=MinMaxScaler()
df2['Min_MAx_s']=le2.fit_transform(df2[['Salary']])
df2.head()

    Age  Gender Education Level           Job Title  Years of
Experience  \
0  32.0    Male      Bachelor's  Software Engineer
5.0
1  28.0  Female        Master's       Data Analyst
3.0
2  45.0    Male            PhD      Senior Manager
15.0
3  36.0  Female      Bachelor's     Sales Associate
7.0
4  36.0  Female      Bachelor's     Sales Associate
7.0

      Salary  Min_MAx_s
```

```
0    90000.0    0.359103
1    65000.0    0.258963
2   150000.0    0.599439
3    60000.0    0.238935
4    60000.0    0.238935
```

Z-Score Normalization

```
from sklearn.preprocessing import StandardScaler

df3=pd.read_csv(r"C:\Users\DELL\Downloads\Salary_EDA.csv")
df3.head()

    Age  Gender Education Level           Job Title  Years of
Experience  \
0  32.0    Male       Bachelor's  Software Engineer
5.0
1  28.0  Female         Master's       Data Analyst
3.0
2  45.0    Male              PhD     Senior Manager
15.0
3  36.0  Female       Bachelor's    Sales Associate
7.0
4  36.0  Female       Bachelor's    Sales Associate
7.0

      Salary
0    90000.0
1    65000.0
2   150000.0
3    60000.0
4    60000.0

n=StandardScaler()
df3[['Salary_s']]=n.fit_transform(df3[['Salary']])
df3.head()

    Age  Gender Education Level           Job Title  Years of
Experience  \
0  32.0    Male       Bachelor's  Software Engineer
5.0
1  28.0  Female         Master's       Data Analyst
3.0
2  45.0    Male              PhD     Senior Manager
15.0
3  36.0  Female       Bachelor's    Sales Associate
7.0
4  36.0  Female       Bachelor's    Sales Associate
7.0
```

```
     Salary  Salary_s
0   90000.0 -0.211488
1   65000.0 -0.733148
2  150000.0  1.040496
3   60000.0 -0.837480
4   60000.0 -0.837480
```

Randomfox

Weather API

```python
import requests

page = requests.get('http://api.weatherapi.com/v1/current.json?key=e0e8dd5d0a4547c8b1290403252003&q=Tumkur')

print(page)

<Response [200]>

result=page.json()
print(result)
```

{'location': {'name': 'Tumkur', 'region': 'Karnataka', 'country': 'India', 'lat': 13.3422, 'lon': 77.1017, 'tz_id': 'Asia/Kolkata', 'localtime_epoch': 1742462009, 'localtime': '2025-03-20 14:43'}, '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}}

```python
import requests

page1 = requests.get('http://api.coincap.io/v2/assets')

print(page1)

<Response [200]>

result2=page1.json()
print(result2)
```

{'data': [{'id': 'bitcoin', 'rank': '1', 'symbol': 'BTC', 'name': 'Bitcoin', 'supply': '19839400.0000000000000000', 'maxSupply': '21000000.0000000000000000', 'marketCapUsd':

'1690642085530.0853481637253200', 'volumeUsd24Hr': '10294944841.8616370400283995', 'priceUsd': '85216.3919034892863778', 'changePercent24Hr': '1.9836879808947798', 'vwap24Hr': '85242.5393622283315806', 'explorer': 'https://blockchain.info/'}, {'id': 'ethereum', 'rank': '2', 'symbol': 'ETH', 'name': 'Ethereum', 'supply': '120629195.4269564900000000', 'maxSupply': None, 'marketCapUsd': '238734461075.7161446148298806', 'volumeUsd24Hr': '6729067228.2899936661334663', 'priceUsd': '1979.0769575369908867', 'changePercent24Hr': '1.6520305999880752', 'vwap24Hr': '2024.2133024845636723', 'explorer': 'https://etherscan.io/'}, {'id': 'xrp', 'rank': '3', 'symbol': 'XRP', 'name': 'XRP', 'supply': '58108919817.0000000000000000', 'maxSupply': '100000000000.0000000000000000', 'marketCapUsd': '144191872011.1592730779322174', 'volumeUsd24Hr': '3357716503.8780937196576763', 'priceUsd': '2.4814068556988622', 'changePercent24Hr': '7.1605573075624635', 'vwap24Hr': '2.4928862050830814', 'explorer': 'https://xrpcharts.ripple.com/#/graph/'}, {'id': 'tether', 'rank': '4', 'symbol': 'USDT', 'name': 'Tether', 'supply': '143653509034.0653000000000000', 'maxSupply': None, 'marketCapUsd': '143663642526.7808607656955725', 'volumeUsd24Hr': '25449713866.7556984106643171', 'priceUsd': '1.0000705412125586', 'changePercent24Hr': '0.0983642425420199', 'vwap24Hr': '1.0000049550248507', 'explorer': 'https://www.omniexplorer.info/asset/31'}, {'id': 'binance-coin', 'rank': '5', 'symbol': 'BNB', 'name': 'BNB', 'supply': '144006830.0000000000000000', 'maxSupply': '144006830.0000000000000000', 'marketCapUsd': '90954338061.3573831468269190', 'volumeUsd24Hr': '600713038.6357500759714707', 'priceUsd': '631.5973906331899893', 'changePercent24Hr': '2.7715900498102202', 'vwap24Hr': '618.9696781325982878', 'explorer': 'https://etherscan.io/token/0xB8c77482e45F1F44dE1745F52C74426C631bDD52'}, {'id': 'solana', 'rank': '6', 'symbol': 'SOL', 'name': 'Solana', 'supply': '510156044.0299182000000000', 'maxSupply': None, 'marketCapUsd': '66873314113.1331921167700411', 'volumeUsd24Hr': '1414948574.7107678301201302', 'priceUsd': '131.0840377090806233', 'changePercent24Hr': '3.4960381830251608', 'vwap24Hr': '131.8975376028978327', 'explorer': 'https://explorer.solana.com/'}, {'id': 'usd-coin', 'rank': '7', 'symbol': 'USDC', 'name': 'USDC', 'supply': '59242276090.4832400000000000', 'maxSupply': None, 'marketCapUsd': '59239061810.2627599880448739', 'volumeUsd24Hr': '7308950361.2822159828679514', 'priceUsd': '0.9999457434718482', 'changePercent24Hr': '0.0118523738178789', 'vwap24Hr': '0.9998783674489655', 'explorer': 'https://etherscan.io/token/0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48'}, {'id': 'dogecoin', 'rank': '8', 'symbol': 'DOGE', 'name': 'Dogecoin', 'supply': '148504846383.7052600000000000', 'maxSupply': None, 'marketCapUsd': '25476794833.6981315002748224', 'volumeUsd24Hr':

'431306684.1415249718047652', 'priceUsd': '0.1715553091639276', 'changePercent24Hr': '2.0294320254526730', 'vwap24Hr': '0.1734732543432387', 'explorer': 'http://dogechain.info/chain/Dogecoin'}, {'id': 'cardano', 'rank': '9', 'symbol': 'ADA', 'name': 'Cardano', 'supply': '35234797228.4508800000000000', 'maxSupply': '45000000000.0000000000000000', 'marketCapUsd': '25475750632.5413830738443589', 'volumeUsd24Hr': '506665643.3468665003857583', 'priceUsd': '0.7230281606948087', 'changePercent24Hr': '1.1911722975056992', 'vwap24Hr': '0.7325503992467106', 'explorer': 'https://cardanoexplorer.com/'}, {'id': 'tron', 'rank': '10', 'symbol': 'TRX', 'name': 'TRON', 'supply': '95016082389.9211600000000000', 'maxSupply': None, 'marketCapUsd': '21770104775.3306929123317061', 'volumeUsd24Hr': '300785351.3049877347662649', 'priceUsd': '0.2291202102607417', 'changePercent24Hr': '-0.6001843190759570', 'vwap24Hr': '0.2308132350537269', 'explorer': 'https://tronscan.org/#/'}, {'id': 'steth', 'rank': '11', 'symbol': 'STETH', 'name': 'Lido Staked ETH', 'supply': '9343402.8086646900000000', 'maxSupply': None, 'marketCapUsd': '18741559857.8576187344390838', 'volumeUsd24Hr': '2186170.8886151018061522', 'priceUsd': '2005.8602033594721924', 'changePercent24Hr': '3.5855410182863604', 'vwap24Hr': '2028.5884216778813735', 'explorer': 'https://etherscan.io/token/0xae7ab96520de3a18e5e111b5eaab095312d7fe84'}, {'id': 'wrapped-bitcoin', 'rank': '12', 'symbol': 'WBTC', 'name': 'Wrapped Bitcoin', 'supply': '129077.4055218900000000', 'maxSupply': None, 'marketCapUsd': '10963884958.3962048475659037', 'volumeUsd24Hr': '219605200.6366182241361597', 'priceUsd': '84940.3883976956737447', 'changePercent24Hr': '1.8813851611653240', 'vwap24Hr': '84747.3853825132357810', 'explorer': 'https://etherscan.io/token/0x2260fac5e5542a773aa44fbcfedf7c193bc2c599'}, {'id': 'chainlink', 'rank': '13', 'symbol': 'LINK', 'name': 'Chainlink', 'supply': '657099970.4527867000000000', 'maxSupply': None, 'marketCapUsd': '9481276082.4173315097478126', 'volumeUsd24Hr': '230836239.8577692177869929', 'priceUsd': '14.4289704896563693', 'changePercent24Hr': '2.5579691399972537', 'vwap24Hr': '14.5792051041035412', 'explorer': 'https://etherscan.io/token/0x514910771af9ca656af840dff83e8264ecf986ca'}, {'id': 'unus-sed-leo', 'rank': '14', 'symbol': 'LEO', 'name': 'UNUS SED LEO', 'supply': '923901567.9000000000000000', 'maxSupply': None, 'marketCapUsd': '9011625589.5838988126150367', 'volumeUsd24Hr': '425245.1884322649154217', 'priceUsd': '9.7538806109692487', 'changePercent24Hr': '-0.2010240314152416', 'vwap24Hr': '9.8277506315106542', 'explorer': 'https://eospark.com/account/bitfinexleo1'}, {'id': 'tontoken', 'rank': '15', 'symbol': 'TON', 'name': 'Toncoin', 'supply': '2476378413.2700000000000000', 'maxSupply': '5047558527.7000000000000000', 'marketCapUsd': '8918263108.7051928114921167', 'volumeUsd24Hr':

'77871866.2306326518824946', 'priceUsd': '3.6013329226726840', 'changePercent24Hr': '0.9946674541477572', 'vwap24Hr': '3.6585606815384103', 'explorer': 'https://tonscan.org/'}, {'id': 'stellar', 'rank': '16', 'symbol': 'XLM', 'name': 'Stellar', 'supply': '30754554606.4495930000000000', 'maxSupply': '50001806812.0000000000000000', 'marketCapUsd': '8733322049.6956054695193025', 'volumeUsd24Hr': '166330934.6178860568812096', 'priceUsd': '0.2839684125311353', 'changePercent24Hr': '2.0051822651836799', 'vwap24Hr': '0.2884719346732946', 'explorer': 'https://dashboard.stellar.org/'}, {'id': 'hedera-hashgraph', 'rank': '17', 'symbol': 'HBAR', 'name': 'Hedera', 'supply': '41903956526.0000000000000000', 'maxSupply': '50000000000.0000000000000000', 'marketCapUsd': '8003807985.7870810750038754', 'volumeUsd24Hr': '110383975.0409056900729802', 'priceUsd': '0.1910036342468279', 'changePercent24Hr': '0.9009513320328468', 'vwap24Hr': '0.1942284329569353', 'explorer': 'https://app.dragonglass.me/hedera/home'}, {'id': 'avalanche', 'rank': '18', 'symbol': 'AVAX', 'name': 'Avalanche', 'supply': '414456636.6751344000000000', 'maxSupply': '715748719.0000000000000000', 'marketCapUsd': '7806457099.3601934855561824', 'volumeUsd24Hr': '141503168.6997546312188508', 'priceUsd': '18.8354013630602505', 'changePercent24Hr': '-1.1354138393423072', 'vwap24Hr': '19.5287633021200533', 'explorer': 'https://avascan.info/'}, {'id': 'sui', 'rank': '19', 'symbol': 'SUI', 'name': 'Sui', 'supply': '3169845047.4838877000000000', 'maxSupply': '10000000000.0000000000000000', 'marketCapUsd': '7721531552.7685696323634554', 'volumeUsd24Hr': '504750317.4720946936901109', 'priceUsd': '2.4359334406259548', 'changePercent24Hr': '4.7405410559144643', 'vwap24Hr': '2.4126010977218888', 'explorer': 'https://suiexplorer.com/'}, {'id': 'shiba-inu', 'rank': '20', 'symbol': 'SHIB', 'name': 'Shiba Inu', 'supply': '589252943029396.8000000000000000', 'maxSupply': '589552695333683.0000000000000000', 'marketCapUsd': '7495374127.0758649264170374', 'volumeUsd24Hr': '60446872.1299062676153712', 'priceUsd': '0.0000127201301508', 'changePercent24Hr': '0.8445142824611307', 'vwap24Hr': '0.0000128118079473', 'explorer': 'https://etherscan.io/token/0x95ad61b0a150d79219dcf64e1e6cc01f0b64c4ce'}, {'id': 'litecoin', 'rank': '21', 'symbol': 'LTC', 'name': 'Litecoin', 'supply': '75558468.3040892000000000', 'maxSupply': '84000000.0000000000000000', 'marketCapUsd': '6898560207.6697803281965522', 'volumeUsd24Hr': '221311374.9320820227537524', 'priceUsd': '91.3009535861175268', 'changePercent24Hr': '1.0853592691530543', 'vwap24Hr': '92.4410926615558313', 'explorer': 'http://explorer.litecoin.net/chain/Litecoin'}, {'id': 'bitcoin-cash', 'rank': '22', 'symbol': 'BCH', 'name': 'Bitcoin Cash', 'supply':

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'https://etherscan.io/token/0xD533a949740bb3306d119CC777fa900bA034cd52
'}, {'id': 'helium', 'rank': '96', 'symbol': 'HNT', 'name': 'Helium',
'supply': '179761124.7451054500000000', 'maxSupply':
'223000000.0000000000000000', 'marketCapUsd':
'567212319.6847034905159093', 'volumeUsd24Hr':
'716058.8701352840279750', 'priceUsd': '3.1553669932194146',
'changePercent24Hr': '2.0503631583458440', 'vwap24Hr':
'3.1735308121847929', 'explorer': 'https://explorer.helium.com/'},
{'id': 'kava', 'rank': '97', 'symbol': 'KAVA', 'name': 'Kava',
'supply': '1082853482.0000000000000000', 'maxSupply': None,
'marketCapUsd': '561052723.5925271678757882', 'volumeUsd24Hr':
'10727293.9073279761145023', 'priceUsd': '0.5181243196044201',
'changePercent24Hr': '3.9439034322316603', 'vwap24Hr':
'0.5079643934618957', 'explorer': 'https://www.mintscan.io/kava'},
{'id': 'axie-infinity', 'rank': '98', 'symbol': 'AXS', 'name': 'Axie
Infinity', 'supply': '159646968.7628623500000000', 'maxSupply': None,
'marketCapUsd': '543201228.5405090744195444', 'volumeUsd24Hr':
'8436988.0615080840968890', 'priceUsd': '3.4025151416897462',
'changePercent24Hr': '0.2221832124678570', 'vwap24Hr':
'3.4570240722279145', 'explorer':
'https://etherscan.io/token/0xf5d669627376ebd411e34b98f19c868c8aba5ada
'}, {'id': 'pyth-network', 'rank': '99', 'symbol': 'PYTH', 'name':
'Pyth Network', 'supply': '3624987919.8500000000000000', 'maxSupply':
None, 'marketCapUsd': '543046314.1401887440454660', 'volumeUsd24Hr':
'14704928.5390851127069354', 'priceUsd': '0.1498063789858532',
'changePercent24Hr': '-0.3305819583557725', 'vwap24Hr':
'0.1536162040049761', 'explorer':
'https://solscan.io/token/HZ1JovNiVvGrGNiiYvEozEVgZ58xaU3RKwX8eACQBCt3
'}, {'id': 'raydium', 'rank': '100', 'symbol': 'RAY', 'name':
'Raydium', 'supply': '290847970.9593340000000000', 'maxSupply':

'555000000.0000000000000000', 'marketCapUsd':
'539751877.9863170796424671', 'volumeUsd24Hr':
'72677100.3635751347533669', 'priceUsd': '1.8557869811021804',
'changePercent24Hr': '1.8737898388710728', 'vwap24Hr':
'1.8778170454248490', 'explorer':
'https://explorer.solana.com/address/4k3Dyjzvzp8eMZWUXbBCjEvwSkkk59S5i
CNLY3QrkX6R'}], 'timestamp': 1742466780479}

```
cd=result2['data']
mydata=pd.DataFrame(cd)
mydata.head(10)
```

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

1       ethereum    2     ETH    Ethereum       120629195.4269564900000000

2            xrp    3     XRP         XRP        58108919817.0000000000000000

3         tether    4    USDT      Tether       143653509034.0653000000000000

4   binance-coin    5     BNB         BNB        144006830.0000000000000000

5         solana    6     SOL      Solana        510156044.0299182000000000

6        usd-coin    7    USDC        USDC       59242276090.4832400000000000

7       dogecoin    8    DOGE    Dogecoin       148504846383.7052600000000000

8        cardano    9     ADA     Cardano       35234797228.4508800000000000

9           tron   10     TRX        TRON       95016082389.9211600000000000


                     maxSupply                          marketCapUsd  \
0         21000000.0000000000000000   1690642085530.0853481637253200
1                              None    238734461075.7161446148298806
2    100000000000.0000000000000000    144191872011.1592730779322174
3                              None    143663642526.7808607656955725
4       144006830.0000000000000000     90954338061.3573831468269190
5                              None     66873314113.1331921167700411
6                              None     59239061810.2627599880448739
7                              None     25476794833.6981315002748224
8    45000000000.0000000000000000     25475750632.5413830738443589
9                              None     21770104775.3306929123317061

                 volumeUsd24Hr                          priceUsd
changePercent24Hr  \
0   10294944841.8616370400283995   85216.3919034892863778
1.9836879808947798
```

```
1      6729067228.2899936661334663      1979.0769575369908867
1.6520305999880752
2      3357716503.8780937196576763         2.4814068556988622
7.1605573075624635
3    25449713866.7556984106643171            1.0000705412125586
0.0983642425420199
4       600713038.6357500759714707       631.5973906331899893
2.7715900498102202
5      1414948574.7107678301201302      131.0840377090806233
3.4960381830251608
6      7308950361.2822159828679514         0.9999457434718482
0.0118523738178789
7       431306684.1415249718047652         0.1715553091639276
2.0294320254526730
8       506665643.3468665003857583         0.7230281606948087
1.1911722975056992
9       300785351.3049877347662649         0.2291202102607417   -
0.6001843190759570

                     vwap24Hr
explorer
0   85242.5393622283315806
https://blockchain.info/
1    2024.2133024845636723
https://etherscan.io/
2        2.4928862050830814
https://xrpcharts.ripple.com/#/graph/
3        1.0000049550248507
https://www.omniexplorer.info/asset/31
4     618.9696781325982878
https://etherscan.io/token/0xB8c77482e45F1F44d...
5     131.8975376028978327
https://explorer.solana.com/
6        0.9998783674489655
https://etherscan.io/token/0xa0b86991c6218b36c...
7        0.1734732543432387
http://dogechain.info/chain/Dogecoin
8        0.7325503992467106
https://cardanoexplorer.com/
9        0.2308132350537269
https://tronscan.org/#/

mydata.to_csv(r"C:\Users\DELL\Downloads\result2.csv")

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

mydata.isnull().sum()

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

mydata.dropna(inplace=True)
mydata.isnull().sum()

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

mydata.describe(include='all')
```

```
              id  rank  symbol       name                                   supply  \
count         40    40      40         40                                       40
unique        40    40      40         40                                       40
top      bitcoin     1     BTC    Bitcoin   19839400.0000000000000000
freq           1     1       1          1                                        1

                         maxSupply                         marketCapUsd  \
count                           40                                   40
unique                          33                                   40
top      21000000.0000000000000000   1690642085530.0853481637253200
freq                             3                                    1

                    volumeUsd24Hr                        priceUsd  \
count                          40                              40
unique                         40                              40
top      10294944841.8616370400283995   85216.3919034892863778
freq                            1                               1

          changePercent24Hr                    vwap24Hr
explorer
count                    40                          40
40
unique                   40                          40
40
top       1.9836879808947798   85242.5393622283315806
https://blockchain.info/
freq                      1                           1
1
```
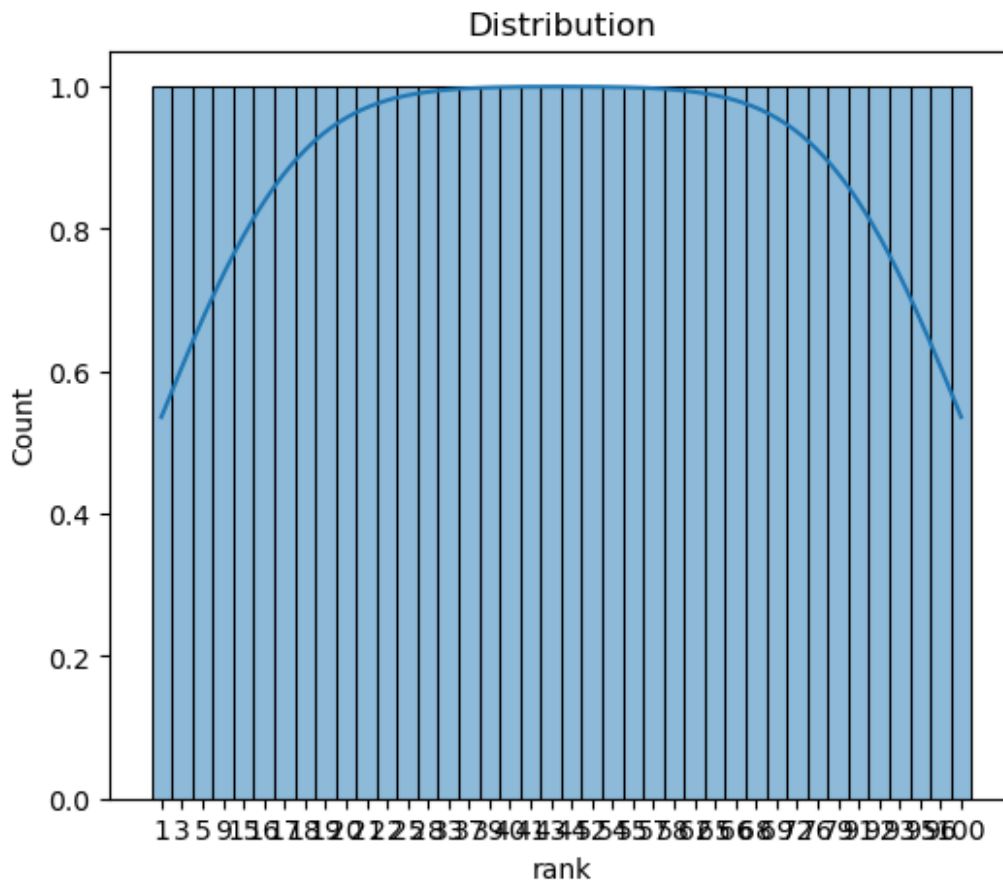
```python
plt.figure(figsize=(6,5))
sns.histplot(mydata["rank"],kde=True,bins=20)
plt.title("Distribution")
plt.show()
```

```
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):
```

Distribution

```
md=mydata.select_dtypes(include = ["number"])
md.head()

Empty DataFrame
Columns: []
Index: [0, 2, 4, 8, 14]
```

Create subset with price less than 2

```
mydata['priceUsd'] = mydata['priceUsd'].astype(float)
newdata = mydata[mydata['priceUsd'] < 2]
newdata.head()

                id rank symbol          name
supply  \
8          cardano    9    ADA       Cardano
35234797228.4508800000000000
15          stellar   16    XLM       Stellar
30754554606.4495930000000000
16  hedera-hashgraph   17   HBAR        Hedera
41903956526.0000000000000000
19        shiba-inu   20   SHIB   Shiba Inu
```

```
589252943029396.8000000000000000
32             pepe   33   PEPE        Pepe
420689899653543.5600000000000000

                           maxSupply                      marketCapUsd  \
8        45000000000.0000000000000000   25475750632.5413830738443589
15       50001806812.0000000000000000    8733322049.6956054695193025
16       50000000000.0000000000000000    8003807985.7870810750038754
19   589552695333683.0000000000000000    7495374127.0758649264170374
32   420690000000000.0000000000000000    3120284774.8644130889587537

                 volumeUsd24Hr  priceUsd   changePercent24Hr  \
8     506665643.3468665003857583  0.723028   1.1911722975056992
15    166330934.6178860568812096  0.283968   2.0051822651836799
16    110383975.0409056900729802  0.191004   0.9009513320328468
19     60446872.1299062676153712  0.000013   0.8445142824611307
32    461409118.9946561135115741  0.000007   2.1463291675977104

             vwap24Hr
explorer
8    0.7325503992467106
https://cardanoexplorer.com/
15   0.2884719346732946
https://dashboard.stellar.org/
16   0.1942284329569353
https://app.dragonglass.me/hedera/home
19   0.0000128118079473
https://etherscan.io/token/0x95ad61b0a150d7921...
32   0.0000074128903163
https://etherscan.io/token/0x6982508145454ce32...

plt.figure(figsize=(30,8))
plt.scatter(newdata['name'],newdata['priceUsd'],color='green',marker='
d')
plt.xlabel("Name")
plt.ylabel("Prize Usd")
plt.legend()

No artists with labels found to put in legend.  Note that artists
whose label start with an underscore are ignored when legend() is
called with no argument.

<matplotlib.legend.Legend at 0x1429099a990>
```