PDA_4_1

ENCODING¶

CONVERTING CATEGORIAL DATA INTO NUMERICAL DATA

In [62]:

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

In [64]:

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

Out[64]:

	Age	Gender	Education Level	Job Title	Years of Experience	Salary
0	32.0	Male	Bachelor's	Software Engineer	5.0	90000.0
1	28.0	Female	Master's	Data Analyst	3.0	65000.0
2	45.0	Male	PhD	Senior Manager	15.0	150000.0
3	36.0	Female	Bachelor's	Sales Associate	7.0	60000.0
4	36.0	Female	Bachelor's	Sales Associate	7.0	60000.0

FILTER CATEGORIAL FEATURE¶

In [67]:

```
categorial_cols=["Education Level"]
```

DEFINE AND APPLY ENCODER¶

In [70]:

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

In [72]:

```
encoder_data=encoder.fit_transform(df[categorial_cols])
```

In [74]:

```
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.]]
```

the encoded data is in the form of array. we need to convert encoded data into data frame

ENCODED DATA FRAME¶

In [105]:

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

Out[105]:

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

In [107]:

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

Out[107]:

	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

In [111]:

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

Out[111]:

	Age	Gender	Education Level	Job Title	Years of Experience	Salary	Education Level_Bachelor's	Education Level_Master's	Education Level_PhD
0	32.0	Male	Bachelor's	Software Engineer	5.0	90000.0	1.0	0.0	0.0
1	28.0	Female	Master's	Data Analyst	3.0	65000.0	0.0	1.0	0.0
2	45.0	Male	PhD	Senior Manager	15.0	150000.0	0.0	0.0	1.0
3	36.0	Female	Bachelor's	Sales Associate	7.0	60000.0	1.0	0.0	0.0
4	36.0	Female	Bachelor's	Sales Associate	7.0	60000.0	1.0	0.0	0.0

LABEL ENCODER¶

In [114]:

```
from sklearn.preprocessing import LabelEncoder
```

In [120]:

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

Out[120]:

	Age	Gender	Education Level	Job Title	Years of Experience	Salary
0	32.0	Male	Bachelor's	Software Engineer	5.0	90000.0
1	28.0	Female	Master's	Data Analyst	3.0	65000.0
2	45.0	Male	PhD	Senior Manager	15.0	150000.0
3	36.0	Female	Bachelor's	Sales Associate	7.0	60000.0
4	36.0	Female	Bachelor's	Sales Associate	7.0	60000.0

In [126]:

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

Out[126]:

	Age	Gender	Education Level	Job Title	Years of Experience	Salary	Gender_e
0	32.0	Male	Bachelor's	Software Engineer	5.0	90000.0	1

	Age	Gender	Education Level	Job Title	Years of Experience	Salary	Gender_e
1	28.0	Female	Master's	Data Analyst	3.0	65000.0	0
2	45.0	Male	PhD	Senior Manager	15.0	150000.0	1
3	36.0	Female	Bachelor's	Sales Associate	7.0	60000.0	0
4	36.0	Female	Bachelor's	Sales Associate	7.0	60000.0	0

In [130]:

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

Out[130]:

	Age	Gender	Education Level	Job Title	Years of Experience	Salary	Gender_e	Education_e
0	32.0	Male	Bachelor's	Software Engineer	5.0	90000.0	1	0
1	28.0	Female	Master's	Data Analyst	3.0	65000.0	0	1
2	45.0	Male	PhD	Senior Manager	15.0	150000.0	1	2
3	36.0	Female	Bachelor's	Sales Associate	7.0	60000.0	0	0
4	36.0	Female	Bachelor's	Sales Associate	7.0	60000.0	0	0

STANDARDIZATION¶

MIN-MAX SCALING

In [162]:

```
from sklearn.preprocessing import MinMaxScaler
```

In [164]:

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

Out[164]:

	Age	Gender	Education Level	Job Title	Years of Experience	Salary
0	32.0	Male	Bachelor's	Software Engineer	5.0	90000.0
1	28.0	Female	Master's	Data Analyst	3.0	65000.0
2	45.0	Male	PhD	Senior Manager	15.0	150000.0
3	36.0	Female	Bachelor's	Sales Associate	7.0	60000.0
4	36.0	Female	Bachelor's	Sales Associate	7.0	60000.0

In [166]:

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

```
---------------------------------------------------------------------------
-----
ValueError                                Traceback (most recent call
last)
Cell In[166], line 2
      1 le2=MinMaxScaler()
----> 2 df2['Min_Max_s']=le2.fit_transform(df2['Salary'])
      3 df2.head()
```

```
File ~\anaconda3\Lib\site-packages\sklearn\utils\_set_output.py:140,
in _wrap_method_output.<locals>.wrapped(self, X, *args, **kwargs)
    138 @wraps(f)
    139 def wrapped(self, X, *args, **kwargs):
--> 140     data_to_wrap = f(self, X, *args, **kwargs)
    141     if isinstance(data_to_wrap, tuple):
    142         # only wrap the first output for cross decomposition
    143         return (
    144             _wrap_data_with_container(method, data_to_wrap[0],
X, self),
    145             *data_to_wrap[1:],
    146         )

File ~\anaconda3\Lib\site-packages\sklearn\base.py:878, in
TransformerMixin.fit_transform(self, X, y, **fit_params)
    874 # non-optimized default implementation; override when a better
    875 # method is possible for a given clustering algorithm
    876 if y is None:
    877     # fit method of arity 1 (unsupervised transformation)
--> 878     return self.fit(X, **fit_params).transform(X)
    879 else:
    880     # fit method of arity 2 (supervised transformation)
    881     return self.fit(X, y, **fit_params).transform(X)

File ~\anaconda3\Lib\site-packages\sklearn\preprocessing\_data.py:427,
in MinMaxScaler.fit(self, X, y)
    425 # Reset internal state before fitting
    426 self._reset()
--> 427 return self.partial_fit(X, y)

File ~\anaconda3\Lib\site-packages\sklearn\preprocessing\_data.py:466,
in MinMaxScaler.partial_fit(self, X, y)
    460     raise TypeError(
    461         "MinMaxScaler does not support sparse input. "
    462         "Consider using MaxAbsScaler instead."
    463     )
    465 first_pass = not hasattr(self, "n_samples_seen_")
--> 466 X = self._validate_data(
    467     X,
    468     reset=first_pass,
    469     dtype=FLOAT_DTYPES,
    470     force_all_finite="allow-nan",
    471 )
    473 data_min = np.nanmin(X, axis=0)
    474 data_max = np.nanmax(X, axis=0)

File ~\anaconda3\Lib\site-packages\sklearn\base.py:565, in
BaseEstimator._validate_data(self, X, y, reset, validate_separately,
**check_params)
    563     raise ValueError("Validation should be done on X, y or
```

```
both.")
    564 elif not no_val_X and no_val_y:
--> 565     X = check_array(X, input_name="X", **check_params)
    566     out = X
    567 elif no_val_X and not no_val_y:

File ~\anaconda3\Lib\site-packages\sklearn\utils\validation.py:902, in
check_array(array, accept_sparse, accept_large_sparse, dtype, order,
copy, force_all_finite, ensure_2d, allow_nd, ensure_min_samples,
ensure_min_features, estimator, input_name)
    900     # If input is 1D raise error
    901     if array.ndim == 1:
--> 902         raise ValueError(
    903             "Expected 2D array, got 1D array instead:\
narray={}.\n"
    904             "Reshape your data either using array.reshape(-1,
1) if "
    905             "your data has a single feature or
array.reshape(1, -1) "
    906             "if it contains a single sample.".format(array)
    907         )
    909 if dtype_numeric and array.dtype.kind in "USV":
    910     raise ValueError(
    911         "dtype='numeric' is not compatible with arrays of
bytes/strings."
    912         "Convert your data to numeric values explicitly
instead."
    913     )

ValueError: Expected 2D array, got 1D array instead:
array=[ 90000.  65000. 150000.  60000.  60000.  55000. 120000.  80000.
60000.
 110000.  75000.     nan  65000. 130000.  40000. 125000.  90000.
115000.
  35000. 180000.  80000. 190000.  50000.  60000. 140000.  45000.
110000.
  40000. 140000.  90000. 250000.  55000.  75000.  65000. 170000.
45000.
  60000. 115000.  40000. 160000.  80000. 190000.  60000.  45000.
130000.
  40000.  75000. 180000. 120000.  35000. 130000.  85000.  60000.
200000.
  50000.  95000.  65000. 140000.  55000. 105000. 170000.  50000.
80000.
 180000.  35000.  90000. 120000.  45000.  90000. 150000.  65000.
70000.
 190000.  40000. 120000.  95000. 160000. 100000. 180000.  55000.
70000.
  80000.  30000. 250000.  40000.  95000.  45000.  80000. 135000.
55000.
```

 120000. 40000. 105000. 170000. 75000. 65000. 160000. 35000.
90000.
 110000. 45000. 95000. 150000. 50000. 80000. 220000. 50000.
60000.
 100000. 40000. 110000. 95000. 130000. 90000. 35000. 95000.
65000.
 170000. 45000. 120000. 100000. 180000. 50000. 80000. 140000.
40000.
  95000. 110000. 50000. 105000. 160000. 45000. 100000. 160000.
35000.
  55000. 140000. 50000. 60000. 120000. 40000. 110000. 50000.
135000.
  40000. 90000. 150000. 60000. 80000. 175000. 45000. 120000.
140000.
  35000. 95000. 110000. 50000. 115000. 185000. 40000. 90000.
175000.
  45000. 80000. 120000. 35000. 110000. 150000. 50000. 105000.
180000.
  40000.   nan 140000. 45000. 85000. 140000. 50000. 80000.
170000.
  40000. 105000. 145000. 40000. 85000. 130000. 95000. 100000.
180000.
  35000. 95000. 170000. 45000. 95000. 120000. 40000. 90000.
155000.
  55000. 110000. 180000. 45000. 130000. 45000. 90000. 160000.
50000.
 120000. 170000. 40000. 110000. 150000. 40000. 85000. 130000.
100000.
  95000. 180000. 35000. 100000. 170000. 45000. 100000. 140000.
40000.
 105000. 160000. 70000. 120000. 190000. 45000. 120000. 50000.
85000.
 140000. 45000. 100000. 140000. 70000. 120000. 160000. 40000.
120000.
 150000. 70000. 95000. 180000. 50000. 95000. 170000. 40000.
110000.
 150000. 40000. 85000. 130000. 100000. 95000. 180000.   350.
nan
 120000. 160000. 50000. 110000. 40000. 95000. 140000. 60000.
110000.
 150000. 60000. 90000. 180000. 40000. 120000. 160000. 70000.
95000.
 180000. 50000. 95000. 170000. 35000. 100000. 150000. 60000.
85000.
 130000. 65000. 110000. 180000. 40000. 90000. 140000. 60000.
130000.
 160000. 40000. 100000. 180000. 55000. 120000. 150000. 70000.
95000.
 180000. 50000. 120000. 170000. 35000. 100000. 150000. 60000.
85000.

```
 130000.  80000.  95000.  40000. 120000. 160000.  65000. 130000.
180000.
  40000. 100000. 150000.  55000. 110000. 180000.  50000. 130000.
160000.
  60000.  95000. 170000.  40000.  90000. 150000.  70000.  90000.
170000.
  50000. 150000. 160000.  60000.  85000. 180000.  35000. 110000.
160000.
  55000. 110000. 180000.  50000. 130000. 160000.  60000.  95000.
170000.
  40000.  90000. 150000.  70000.  90000. 170000.  50000. 150000.
160000.
  60000.  85000. 170000.  40000.  90000. 150000.].
Reshape your data either using array.reshape(-1, 1) if your data has a
single feature or array.reshape(1, -1) if it contains a single sample.
```

Z-SCORE NOMALIZATION¶

In [177]:

```
from sklearn.preprocessing import StandardScaler
```

In [179]:

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

Out[179]:

	Age	Gender	Education Level	Job Title	Years of Experience	Salary
0	32.0	Male	Bachelor's	Software Engineer	5.0	90000.0
1	28.0	Female	Master's	Data Analyst	3.0	65000.0
2	45.0	Male	PhD	Senior Manager	15.0	150000.0
3	36.0	Female	Bachelor's	Sales Associate	7.0	60000.0
4	36.0	Female	Bachelor's	Sales Associate	7.0	60000.0

In [181]:

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

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call
last)
Cell In[181], line 1
----> 1 n=StandardScalar()
      2 df3['Salary_s']=n.fit_transform(df3['Salary'])
      3 df3.head()

NameError: name 'StandardScalar' is not defined
```

WEATHER API¶

In [183]:

```
import requests
```

In [185]:

```
page=requests.get('http://api.weatherapi.com/v1/current.json?
key=1dd4e038dd00416d8dd90011252003&q=tumkur')
```

In [187]:

```
print(page)
```

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

In [189]:

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

```
{'location': {'name': 'Tumkur', 'region': 'Karnataka', 'country':
'India', 'lat': 13.3422, 'lon': 77.1017, 'tz_id': 'Asia/Kolkata',
'localtime_epoch': 1742462157, 'localtime': '2025-03-20 14:45'},
'current': {'last_updated_epoch': 1742462100, 'last_updated': '2025-
03-20 14:45', '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}}
```

In [194]:

```
import requests
```

In [222]:

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

In [223]:

```
print(page)
```

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

In [272]:

```
result1=page.json()
print(result1)
```

```
{'data': [{'id': 'bitcoin', 'rank': '1', 'symbol': 'BTC', 'name':
'Bitcoin', 'supply': '19839400.0000000000000000', 'maxSupply':
'21000000.0000000000000000', 'marketCapUsd':
'1702771822615.1184424241668600', 'volumeUsd24Hr':
'10137175091.6285812646981839', 'priceUsd': '85827.7882705685878819',
'changePercent24Hr': '2.7068089355416152', 'vwap24Hr':
'85242.5393622283315806', 'explorer': 'https://blockchain.info/'},
{'id': 'ethereum', 'rank': '2', 'symbol': 'ETH', 'name': 'Ethereum',
'supply': '120629195.4269564900000000', 'maxSupply': None,
'marketCapUsd': '241598400485.6756099455136889', 'volumeUsd24Hr':
'6619347538.0412704743556604', 'priceUsd': '2002.8186346643463515',
'changePercent24Hr': '2.9922570085744175', 'vwap24Hr':
'2024.2133024845636723', 'explorer': 'https://etherscan.io/'}, {'id':
'xrp', 'rank': '3', 'symbol': 'XRP', 'name': 'XRP', 'supply':
'58108919817.0000000000000000', 'maxSupply':
'100000000000.0000000000000000', 'marketCapUsd':
'145606078627.0847983275735465', 'volumeUsd24Hr':
'3364818774.8753343302591056', 'priceUsd': '2.5057440249386145',
'changePercent24Hr': '8.1900543791347935', 'vwap24Hr':
'2.4928862050830814', 'explorer':
'https://xrpcharts.ripple.com/#/graph/'}, {'id': 'tether', 'rank':
'4', 'symbol': 'USDT', 'name': 'Tether', 'supply':
'143653509034.0653000000000000', 'maxSupply': None, 'marketCapUsd':
'143709689151.9208610376939733', 'volumeUsd24Hr':
'24661397516.7358648451870187', 'priceUsd': '1.0003910807207796',
'changePercent24Hr': '0.0966105726094282', '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':
'90772319988.9478709218490470', 'volumeUsd24Hr':
'562400256.5853327884459792', 'priceUsd': '630.3334361915186309',
'changePercent24Hr': '2.4987790284305344', 'vwap24Hr':
'618.9696781325982878', 'explorer':
'https://etherscan.io/token/0xB8c77482e45F1F44dE1745F52C74426C631bDD52
'}, {'id': 'solana', 'rank': '6', 'symbol': 'SOL', 'name': 'Solana',
'supply': '510156044.0299182000000000', 'maxSupply': None,
'marketCapUsd': '68029872000.6540734557176881', 'volumeUsd24Hr':
'1397523949.4902210240330294', 'priceUsd': '133.3511046213625736',
'changePercent24Hr': '5.3984180548003114', 'vwap24Hr':
'131.8975376028978327', 'explorer': 'https://explorer.solana.com/'},
{'id': 'usd-coin', 'rank': '7', 'symbol': 'USDC', 'name': 'USDC',
'supply': '59242276090.4832400000000000', 'maxSupply': None,
'marketCapUsd': '59254814644.2735189840329786', 'volumeUsd24Hr':
'6753895559.4827009004930222', 'priceUsd': '1.0002116487518327',
'changePercent24Hr': '0.0236538272044326', 'vwap24Hr':
'0.9998783674489655', 'explorer':
'https://etherscan.io/token/0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48
'}, {'id': 'cardano', 'rank': '8', 'symbol': 'ADA', 'name': 'Cardano',
'supply': '35234797228.4508800000000000', 'maxSupply':
'45000000000.0000000000000000', 'marketCapUsd':
'25815308059.5190354118568871', 'volumeUsd24Hr':
'506883356.5740337284862010', 'priceUsd': '0.7326651517856350',
'changePercent24Hr': '2.2962874477768927', 'vwap24Hr':
'0.7325503992467106', 'explorer': 'https://cardanoexplorer.com/'},
{'id': 'dogecoin', 'rank': '9', 'symbol': 'DOGE', 'name': 'Dogecoin',
'supply': '148504846383.7052600000000000', 'maxSupply': None,
'marketCapUsd': '25799238362.8584416527798818', 'volumeUsd24Hr':
'425672233.9293648787041523', 'priceUsd': '0.1737265752001025',
'changePercent24Hr': '3.3404416751594085', 'vwap24Hr':
'0.1734732543432387', 'explorer':
'http://dogechain.info/chain/Dogecoin'}, {'id': 'tron', 'rank': '10',
'symbol': 'TRX', 'name': 'TRON', 'supply':
'95016082389.9211600000000000', 'maxSupply': None, 'marketCapUsd':
'21824117657.5935227988582670', 'volumeUsd24Hr':
'302473914.1421822193078714', 'priceUsd': '0.2296886706824330',
'changePercent24Hr': '-0.0103176593618848', 'vwap24Hr':
'0.2308132350537269', 'explorer': 'https://tronscan.org/#/'}, {'id':
'steth', 'rank': '11', 'symbol': 'STETH', 'name': 'Lido Staked ETH',
'supply': '9343402.8086646900000000', 'maxSupply': None,
'marketCapUsd': '18832174345.5479765965868666', 'volumeUsd24Hr':
'2198974.2002520929595297', 'priceUsd': '2015.5584353147856986',
'changePercent24Hr': '4.2137184965877483', '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': '11050428030.5603961821242121', 'volumeUsd24Hr':
'211544567.5314029667197816', 'priceUsd': '85610.8626128712697090',

'changePercent24Hr': '2.6904751516785754', 'vwap24Hr':
'84747.3853825132357810', 'explorer':
'https://etherscan.io/token/0x2260fac5e5542a773aa44fbcfedf7c193bc2c599
'}, {'id': 'chainlink', 'rank': '13', 'symbol': 'LINK', 'name':
'Chainlink', 'supply': '657099970.4527867000000000', 'maxSupply':
None, 'marketCapUsd': '9602049392.2459512845056877', 'volumeUsd24Hr':
'231959639.4814795567197440', 'priceUsd': '14.6127679561901126',
'changePercent24Hr': '3.9431402912036992', 'vwap24Hr':
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In [274]:

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cd=result1['data']
mydata=pd.DataFrame(cd)
mydata.head(10)
```

Out[274]:

	id	rank	symbol	name	supply	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd	changePercent24Hr	vwap24Hr	explorer
0	bitcoin	1	BTC	Bitcoin	19839400.0000000000000000	21000000.0000000000000000	1702771822615.1184424241668600	10137175091.6285812646981839	85827.788270568587819	2.7068089355416152	85242.5393622283315806	https://blockchain.info/
1	eth	2	ET	Eth	12	No	24	66	20	2.9	20	htt

	id	rank	symbol	name	supply	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd	changePercent24Hr	vwap24Hr	explorer
	ereum		H	ereum	0629195.4269564900000000	ne	1598400485.6756099455136889	19347538.0412704743556604	02.8186346643463515	922570085744175	24.2133024845636723	ps://etherscan.io/
2	xrp	3	XRP	XRP	58108919817.0000000000000000	100000000000.0000000000000000	145606078627.0847983275735465	3364818774.8753343302591056	2.5057440249386145	8.1900543791347935	2.4928862050830814	https://xrpcharts.ripple.com/#/graph/
3	tether	4	USDT	Tether	143653509034.065300000000	None	143709689151.920861037693	24661397516.7358648451870	1.0003910807207796	0.0966105726094282	1.0000049550248507	https://www.omniexplorer.info/ass

	id	rank	symbol	name	supply	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd	changePercent24Hr	vwap24Hr	explorer
					0000		9733	187				et/31
4	binance-coin	5	BNB	BNB	140400683000000000000000000	140400683000000000000000000	9077231998847877092184904700	562400256.585332788445979	630.3334361915186309	2.498779028430534	618.9696781325982878	https://etherscan.io/token/0xB8c7748e2e45F1F44d...
5	solana	6	SOL	Solana	510156044.029918200000000000	None	6802987200.654073455717688	1397523949.49021402402	133.351046213625736	5.398418054803114	131.8975376028932787	https://explorer.solana.com/
6	usd-coin	7	USDC	USDC	5924227676	None	5925481414	6753891555	1.00021653838	0.02399878783	0.99	https://eth

	id	rank	symbol	name	supply	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd	changePercent24Hr	vwap24Hr	explorer
					090.4832400000000000		644.2735189840329786	59.4827009004930222	487518327	272044326	674489655	erscan.io/token/0xa0b86991c6218b36c...
7	cardano	8	ADA	Cardano	35234797228.4508800000000000	45000000000.0000000000000000	25815308059.5190354118568871	506883356.5740337284862010	0.7326651517856350	2.2962874477768927	0.7325503992467106	https://cardanoexplorer.com/
8	dogecoin	9	DOGE	Dogecoin	148504846383.7052600000	None	25799238362.85844165277	425672233.9293648787041	0.1737265752001025	3.3404416751594085	0.1734732543432387	http://dogechain.info/chain/Do

	id	rank	symbol	name	supply	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd	changePercent24Hr	vwap24Hr	explorer
					000000		98818	523				gecoin
9	tron	10	TRX	TRON	95016082389.9211600000000000	None	21824117657.5935227988582670	302473914.1421822193078714	0.2296886706824330	-0.0103176593618848	0.2308132350537269	https://tronscan.org/#/

In [276]:

```
mydata.to_csv(r"C:\Users\DELL\Downloads\result1.csv")
```

In [278]:

```
mydata.isnull().sum()
```

Out[278]:

```
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
```

In [280]:

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

Out[280]:

```
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
```

In [305]:

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

Out[305]:

	id	rank	symbol	name	supply	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd	changePercent24Hr	vwap24Hr	explorer
count	40	40	40	40	40	40	40	40	40	40	40	40
unique	40	40	40	40	40	33	40	40	40	40	40	40
top	bitcoin	1	BTC	Bitcoin	19839400.00000000000000	21000000.00000000000000	1702771822615.118442424	10137175091.62858126469	85827.7882705685878819	2.7068089355416152	85242.5393622283315806	https://blockchain.info/

	id	rank	symbol	name	supply	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd	changePercent24Hr	vwap24Hr	explorer
					00	00	1668606000	8183 9				
freq	1	1	1	1	1	3	1	1	1	1	1	1

In [307]:

```
plt.figure(figsize=(25,20))
sns.histplot(mydata["rank"],kde=True,bins=20)
plt.title("DISTRIBUTION OF rank")
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):
```

No description has been provided for this image

In [315]:

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

Out[315]:

	id	rank	symbol	name	supply	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd	changePercent24Hr	vwap24Hr	explorer
7	cardano	8	ADA	Cardano	35 2347 9722 8.4	45 00 00 0.0	25 81 08 05 9.5	50 68 35 6.5 74	0.7 32 5	2.2 96 74 77	0.7 32 03 24	https://cardanoex

	id	rank	symbol	name	supply	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd	changePercent24Hr	vwap24Hr	explorer
					5088000000000000000	0000000000000000000	1903541185686871	0337284862010		68927	67106	plorer.com/
15	stellar	16	XLM	Stellar	3075455460649599300000000000000000	5000181206812.000000000000000000	8847835605.899077124717490700	1674248.340381333975224	0.28769	3.675145448747732819	0.28847193467329466	https://dashboard.stellar.org/
16	hedera-hashgraph	17	HBAR	Hedera	4190395652606.000000000000000000	5000000000000.000000000000000000	8130260497.360803657910863521552	1088552528.74299909635355	0.194021	2.527966145125706	0.19422843295693533	https://app.dragonglass.me/hedera/home
19	shi	20	SHI	Shi	58	58	75	59	0.0	2.1	0.0	htt

	id	rank	symbol	name	supply	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd	changePercent24Hr	vwap24Hr	explorer
	ba-inu		B	ba Inu	9252943029396.8000000000000000	9552695333683.0000000000000000	87073258.7715454219140710	900203.3867581711314828	00013	320223187135819	000128118079473	ps://etherscan.io/token/0x95ad61b0a150d7921...
32	pepe	33	PEPE	Pepe	420689899653543.560000000000000	420690000000000.00000000000000	3174642062.9503402966927780	462485518.2680250204014490	0.0000008	3.5297440251296798	0.0000074128903163	https://etherscan.io/token/0x6982508145454ce32...

In [319]:

```
plt.figure(figsize=(30,8))
plt.scatter(newdata['name'],newdata['priceUsd'],color=['green'],marker
```

```
='^' )
plt.xlabel("name")
plt.ylabel("priceUsd")
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.
```

Out[319]:

```
<matplotlib.legend.Legend at 0x28bbce390d0>
```

No description has been provided for this image

In [ ]: