```
!pip install seaborn
```

```
Collecting seaborn
  Downloading seaborn-0.13.2-py3-none-any.whl.metadata (5.4 kB)
Requirement already satisfied: numpy!=1.24.0,>=1.20 in c:\users\
sakthivel r\appdata\local\programs\python\python312\lib\site-packages
(from seaborn) (1.26.4)
Requirement already satisfied: pandas>=1.2 in c:\users\sakthivel r\
appdata\local\programs\python\python312\lib\site-packages (from
seaborn) (2.2.3)
Requirement already satisfied: matplotlib!=3.6.1,>=3.4 in c:\users\
sakthivel r\appdata\local\programs\python\python312\lib\site-packages
(from seaborn) (3.9.2)
Requirement already satisfied: contourpy>=1.0.1 in c:\users\sakthivel
r\appdata\local\programs\python\python312\lib\site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (1.3.0)
Requirement already satisfied: cycler>=0.10 in c:\users\sakthivel r\
appdata\local\programs\python\python312\lib\site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in c:\users\sakthivel
r\appdata\local\programs\python\python312\lib\site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (4.54.1)
Requirement already satisfied: kiwisolver>=1.3.1 in c:\users\sakthivel
r\appdata\local\programs\python\python312\lib\site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (1.4.7)
Requirement already satisfied: packaging>=20.0 in c:\users\sakthivel
r\appdata\local\programs\python\python312\lib\site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (23.2)
Requirement already satisfied: pillow>=8 in c:\users\sakthivel r\
appdata\local\programs\python\python312\lib\site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (10.4.0)
Requirement already satisfied: pyparsing>=2.3.1 in c:\users\sakthivel
r\appdata\local\programs\python\python312\lib\site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (3.1.4)
Requirement already satisfied: python-dateutil>=2.7 in c:\users\
sakthivel r\appdata\local\programs\python\python312\lib\site-packages
(from matplotlib!=3.6.1,>=3.4->seaborn) (2.9.0.post0)
Requirement already satisfied: pytz>=2020.1 in c:\users\sakthivel r\
appdata\local\programs\python\python312\lib\site-packages (from
pandas>=1.2->seaborn) (2024.1)
Requirement already satisfied: tzdata>=2022.7 in c:\users\sakthivel r\
appdata\local\programs\python\python312\lib\site-packages (from
pandas>=1.2->seaborn) (2024.1)
Requirement already satisfied: six>=1.5 in c:\users\sakthivel r\
appdata\local\programs\python\python312\lib\site-packages (from
python-dateutil>=2.7->matplotlib!=3.6.1,>=3.4->seaborn) (1.16.0)
Downloading seaborn-0.13.2-py3-none-any.whl (294 kB)
Installing collected packages: seaborn
Successfully installed seaborn-0.13.2
```

```
!pip install squarify
```

```
Collecting squarify
  Downloading squarify-0.4.4-py3-none-any.whl.metadata (600 bytes)
Downloading squarify-0.4.4-py3-none-any.whl (4.1 kB)
Installing collected packages: squarify
Successfully installed squarify-0.4.4
```

```
!pip install plotly
```

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
color = sns.color_palette()
import squarify

import plotly.offline as py
py.init_notebook_mode(connected=True)
import plotly.graph_objs as go
%matplotlib inline
pd.options.mode.chained_assignment = None

funding_data = pd.read_csv(r"E:\powerbi\project\startup funding\
archive\startup_funding.csv")
funding_data.head()
```

```
   SNo        Date   StartupName   IndustryVertical  \
0    0  01/08/2017      TouchKin         Technology
1    1  02/08/2017       Ethinos         Technology
2    2  02/08/2017  Leverage Edu  Consumer Internet
3    3  02/08/2017          Zepo  Consumer Internet
4    4  02/08/2017  Click2Clinic  Consumer Internet

                                    SubVertical CityLocation  \
0                     Predictive Care Platform    Bangalore
1                     Digital Marketing Agency       Mumbai
2  Online platform for Higher Education Services    New Delhi
3                       DIY Ecommerce platform       Mumbai
4                  healthcare service aggregator    Hyderabad

                                       InvestorsName
InvestmentType  \
0                                       Kae Capital  Private Equity

1                          Triton Investment Advisors  Private Equity

2  Kashyap Deorah, Anand Sankeshwar, Deepak Jain,...    Seed Funding

3  Kunal Shah, LetsVenture, Anupam Mittal, Hetal ...    Seed Funding
```

```
4                    Narottam Thudi, Shireesh Palle    Seed Funding


  AmountInUSD Remarks
0   1,300,000     NaN
1         NaN     NaN
2         NaN     NaN
3     500,000     NaN
4     850,000     NaN
```

```
funding_data.columns
```

```
Index(['SNo', 'Date', 'StartupName', 'IndustryVertical',
'SubVertical',
       'CityLocation', 'InvestorsName', 'InvestmentType',
'AmountInUSD',
       'Remarks'],
      dtype='object')
```

```
print("Size of data (Rows, Columns):", funding_data.shape)
```

```
Size of data (Rows, Columns): (2372, 10)
```

```
total = funding_data.isnull().sum().sort_values(ascending = False)
percent =
((funding_data.isnull().sum()/funding_data.isnull().count())*100).sort
_values(ascending = False)
missing_data = pd.concat([total, percent], axis=1, keys=['Total',
'Percent %'])
missing_data.head()
```

```
                  Total  Percent %
Remarks            1953  82.335582
SubVertical         936  39.460371
AmountInUSD         847  35.708263
CityLocation        179   7.546374
IndustryVertical    171   7.209106
```

```
funding_data
```

```
       SNo        Date       StartupName   IndustryVertical  \
0        0  01/08/2017          TouchKin         Technology
1        1  02/08/2017           Ethinos         Technology
2        2  02/08/2017      Leverage Edu  Consumer Internet
3        3  02/08/2017              Zepo  Consumer Internet
4        4  02/08/2017      Click2Clinic  Consumer Internet
...    ...         ...               ...                ...
2367  2367  29/01/2015        Printvenue                NaN
2368  2368  29/01/2015          Graphene                NaN
2369  2369  30/01/2015    Mad Street Den                NaN
2370  2370  30/01/2015         Simplotel                NaN
```

```
2371  2371  31/01/2015  couponmachine.in                NaN

                                          SubVertical CityLocation  \
0                          Predictive Care Platform    Bangalore
1                          Digital Marketing Agency       Mumbai
2     Online platform for Higher Education Services    New Delhi
3                            DIY Ecommerce platform       Mumbai
4                     healthcare service aggregator    Hyderabad
...                                             ...          ...
2367                                            NaN          NaN
2368                                            NaN          NaN
2369                                            NaN          NaN
2370                                            NaN          NaN
2371                                            NaN          NaN

                                        InvestorsName
InvestmentType  \
0                                        Kae Capital  Private
Equity
1                            Triton Investment Advisors  Private
Equity
2     Kashyap Deorah, Anand Sankeshwar, Deepak Jain,...    Seed
Funding
3     Kunal Shah, LetsVenture, Anupam Mittal, Hetal ...    Seed
Funding
4                        Narottam Thudi, Shireesh Palle    Seed
Funding
...                                                 ...              ..
.
2367                        Asia Pacific Internet Group  Private
Equity
2368                                     KARSEMVEN Fund  Private
Equity
2369                       Exfinity Fund, GrowX Ventures.  Private
Equity
2370                                         MakeMyTrip  Private
Equity
2371                    UK based Group of Angel Investors    Seed
Funding

     AmountInUSD                             Remarks
0      1,300,000                                 NaN
1            NaN                                 NaN
2            NaN                                 NaN
3        500,000                                 NaN
4        850,000                                 NaN
...          ...                                 ...
2367   4,500,000                                 NaN
2368     825,000                 Govt backed VC Fund
2369   1,500,000                                 NaN
```

```
2370         NaN  Strategic Funding, Minority stake
2371     140,000                                NaN

[2372 rows x 10 columns]
```

```
del funding_data["Remarks"]
funding_data.head()
```

```
   SNo        Date   StartupName   IndustryVertical  \
0    0  01/08/2017      TouchKin         Technology
1    1  02/08/2017       Ethinos         Technology
2    2  02/08/2017  Leverage Edu  Consumer Internet
3    3  02/08/2017          Zepo  Consumer Internet
4    4  02/08/2017  Click2Clinic  Consumer Internet

                                    SubVertical CityLocation  \
0                        Predictive Care Platform    Bangalore
1                        Digital Marketing Agency       Mumbai
2  Online platform for Higher Education Services    New Delhi
3                          DIY Ecommerce platform       Mumbai
4                   healthcare service aggregator    Hyderabad

                                        InvestorsName
InvestmentType  \
0                                        Kae Capital  Private Equity

1                           Triton Investment Advisors  Private Equity

2  Kashyap Deorah, Anand Sankeshwar, Deepak Jain,...    Seed Funding

3  Kunal Shah, LetsVenture, Anupam Mittal, Hetal ...    Seed Funding

4                        Narottam Thudi, Shireesh Palle    Seed Funding


  AmountInUSD
0   1,300,000
1         NaN
2         NaN
3     500,000
4     850,000
```

```
funding_data["AmountInUSD"] = funding_data["AmountInUSD"].apply(lambda
x: float(str(x).replace(",","")))
```

```
funding_data
```

```
       SNo        Date       StartupName   IndustryVertical  \
0        0  01/08/2017          TouchKin         Technology
1        1  02/08/2017           Ethinos         Technology
2        2  02/08/2017      Leverage Edu  Consumer Internet
```

```
3        3  02/08/2017              Zepo  Consumer Internet
4        4  02/08/2017      Click2Clinic  Consumer Internet
...    ...         ...               ...                ...
2367  2367  29/01/2015        Printvenue                NaN
2368  2368  29/01/2015          Graphene                NaN
2369  2369  30/01/2015    Mad Street Den                NaN
2370  2370  30/01/2015         Simplotel                NaN
2371  2371  31/01/2015  couponmachine.in                NaN

                                        SubVertical CityLocation  \
0                          Predictive Care Platform    Bangalore
1                          Digital Marketing Agency       Mumbai
2     Online platform for Higher Education Services    New Delhi
3                            DIY Ecommerce platform       Mumbai
4                     healthcare service aggregator    Hyderabad
...                                             ...          ...
2367                                            NaN          NaN
2368                                            NaN          NaN
2369                                            NaN          NaN
2370                                            NaN          NaN
2371                                            NaN          NaN

                                       InvestorsName
InvestmentType  \
0                                        Kae Capital  Private
Equity
1                            Triton Investment Advisors  Private
Equity
2     Kashyap Deorah, Anand Sankeshwar, Deepak Jain,...    Seed
Funding
3     Kunal Shah, LetsVenture, Anupam Mittal, Hetal ...    Seed
Funding
4                         Narottam Thudi, Shireesh Palle    Seed
Funding
...                                                 ...              ..
.
2367                         Asia Pacific Internet Group  Private
Equity
2368                                       KARSEMVEN Fund  Private
Equity
2369                       Exfinity Fund, GrowX Ventures.  Private
Equity
2370                                        MakeMyTrip  Private
Equity
2371                    UK based Group of Angel Investors    Seed
Funding

      AmountInUSD
0       1300000.0
1             NaN
```

```
2             NaN
3        500000.0
4        850000.0
...           ...
2367    4500000.0
2368     825000.0
2369    1500000.0
2370          NaN
2371     140000.0

[2372 rows x 9 columns]
```

```
funding_data["AmountInUSD"] =
pd.to_numeric(funding_data["AmountInUSD"])

funding_data
```

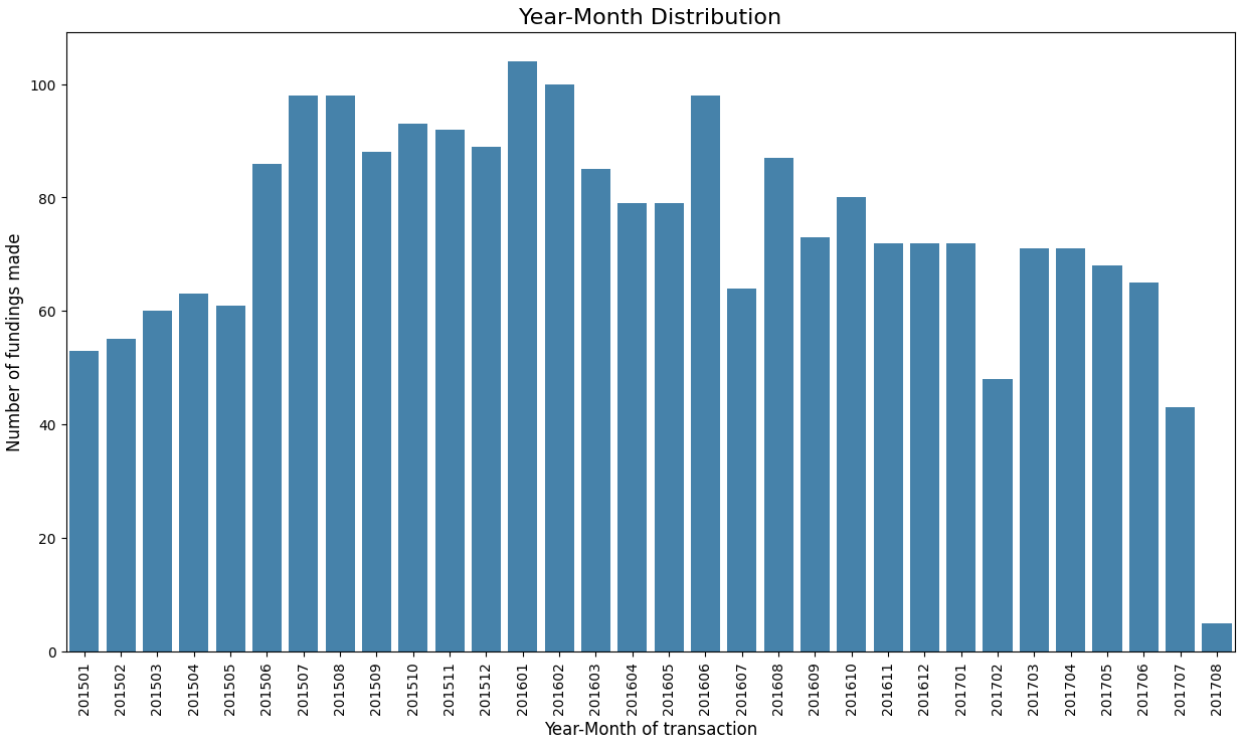
```
       SNo        Date       StartupName   IndustryVertical  \
0        0  01/08/2017          TouchKin         Technology
1        1  02/08/2017           Ethinos         Technology
2        2  02/08/2017      Leverage Edu  Consumer Internet
3        3  02/08/2017              Zepo  Consumer Internet
4        4  02/08/2017      Click2Clinic  Consumer Internet
...    ...         ...               ...                ...
2367  2367  29/01/2015        Printvenue                NaN
2368  2368  29/01/2015          Graphene                NaN
2369  2369  30/01/2015    Mad Street Den                NaN
2370  2370  30/01/2015         Simplotel                NaN
2371  2371  31/01/2015  couponmachine.in                NaN

                                        SubVertical CityLocation  \
0                          Predictive Care Platform    Bangalore
1                          Digital Marketing Agency       Mumbai
2     Online platform for Higher Education Services    New Delhi
3                            DIY Ecommerce platform       Mumbai
4                      healthcare service aggregator    Hyderabad
...                                              ...          ...
2367                                           NaN          NaN
2368                                           NaN          NaN
2369                                           NaN          NaN
2370                                           NaN          NaN
2371                                           NaN          NaN

                                       InvestorsName
InvestmentType  \
0                                       Kae Capital  Private
Equity
1                           Triton Investment Advisors  Private
Equity
2     Kashyap Deorah, Anand Sankeshwar, Deepak Jain,...    Seed
```

```
Funding
3     Kunal Shah, LetsVenture, Anupam Mittal, Hetal ...    Seed
Funding
4                         Narottam Thudi, Shireesh Palle    Seed
Funding
...                                                  ...             ..
.
2367                          Asia Pacific Internet Group  Private
Equity
2368                                       KARSEMVEN Fund  Private
Equity
2369                       Exfinity Fund, GrowX Ventures.  Private
Equity
2370                                            MakeMyTrip  Private
Equity
2371                    UK based Group of Angel Investors    Seed
Funding

      AmountInUSD
0       1300000.0
1             NaN
2             NaN
3        500000.0
4        850000.0
...           ...
2367    4500000.0
2368     825000.0
2369    1500000.0
2370          NaN
2371     140000.0

[2372 rows x 9 columns]
```

```
funding_data.loc[funding_data['Date'] == '12/05.2015', 'Date'] =
'12/05/2015'
funding_data.loc[funding_data['Date'] == '13/04.2015', 'Date'] =
'13/04/2015'
funding_data.loc[funding_data['Date'] == '15/01.2015', 'Date'] =
'15/01/2015'
funding_data.loc[funding_data['Date'] == '22/01//2015', 'Date'] =
'22/01/2015'

funding_data["yearmonth"] = (pd.to_datetime(funding_data['Date'],
format='%d/%m/%Y').dt.year * 100) + \
                            (pd.to_datetime(funding_data['Date'],
format='%d/%m/%Y').dt.month)
temp =
funding_data['yearmonth'].value_counts().sort_values(ascending=False).
head(10)
print("Number of funding per month in decreasing order (Top 10)\n",
```

```
temp)
year_month = funding_data['yearmonth'].value_counts()
plt.figure(figsize=(15, 8))
sns.barplot(x=year_month.index, y=year_month.values, alpha=0.9,
color=color[0])  # Use x= and y= parameters
plt.xticks(rotation='vertical')
plt.xlabel('Year-Month of transaction', fontsize=12)
plt.ylabel('Number of fundings made', fontsize=12)
plt.title("Year-Month Distribution", fontsize=16)
plt.show()
```

```
Number of funding per month in decreasing order (Top 10)
 yearmonth
201601    104
201602    100
201606     98
201507     98
201508     98
201510     93
201511     92
201512     89
201509     88
201608     87
Name: count, dtype: int64
```



```
print("Maximum funding to a Startups is :
",funding_data["AmountInUSD"].dropna().sort_values().max())
```

```
Maximum funding to a Startups is :  1400000000.0
```

```
funding_data[funding_data.AmountInUSD == 1400000000.0]
```

```
     SNo        Date StartupName IndustryVertical  \
158  158  18/05/2017       Paytm        ECommerce
294  294  21/03/2017    Flipkart        eCommerce

                            SubVertical CityLocation  \
158  Mobile Wallet & ECommerce platform    Bangalore
294               ECommerce Marketplace    Bangalore

                         InvestorsName  InvestmentType
AmountInUSD  \
158                     SoftBank Group  Private Equity  1.400000e+09

294  Microsoft, eBay, Tencent Holdings  Private Equity  1.400000e+09


     yearmonth
158     201705
294     201703
```

```
funding_data[funding_data.StartupName == 'Paytm']
```

```
       SNo        Date StartupName
IndustryVertical  \
158    158  18/05/2017       Paytm                            ECommerce

821    821   30/8/2016       Paytm                            eCommerce

1787  1787  29/09/2015       Paytm  E-Commerce & M-Commerce platform

2218  2218  13/03/2015       Paytm                                NaN

2276  2276  05/02/2015       Paytm                                NaN


                            SubVertical CityLocation  \
158   Mobile Wallet & ECommerce platform    Bangalore
821   Mobile Wallet & ECommerce platform    Bangalore
1787                                 NaN    New Delhi
2218                                 NaN          NaN
2276                                 NaN          NaN

                         InvestorsName  InvestmentType   AmountInUSD
yearmonth
158                     SoftBank Group  Private Equity  1.400000e+09
```

```
201705
821                     MediaTek Inc.  Private Equity  6.000000e+07
201608
1787     Alibaba Group, Ant Financial  Private Equity  6.800000e+08
201509
2218                        Ratan Tata  Private Equity           NaN
201503
2276  Ant Financial Services (Alipay)  Private Equity           NaN
201502
```

```
print("Minimum funding to a Startups is :
",funding_data["AmountInUSD"].dropna().sort_values().min())
```

```
Minimum funding to a Startups is :  16000.0
```

```
funding_data[funding_data.AmountInUSD == 16000.0]
```

```
       SNo         Date      StartupName IndustryVertical
SubVertical  \
2345  2345  19/01/2015     Hostel Dunia              NaN          NaN

2346  2346  19/01/2015  Play your sport              NaN          NaN

2347  2347  19/01/2015          Yo Grad              NaN          NaN

2348  2348  19/01/2015           Enabli              NaN          NaN

2349  2349  19/01/2015              CBS              NaN          NaN


     CityLocation                                InvestorsName
InvestmentType  \
2345          NaN  Hyderabad Angels (at Startup Heroes event)   Seed
Funding
2346          NaN  Hyderabad Angels (at Startup Heroes event)   Seed
Funding
2347          NaN  Hyderabad Angels (at Startup Heroes event)   Seed
Funding
2348          NaN  Hyderabad Angels (at Startup Heroes event)   Seed
Funding
2349          NaN  Hyderabad Angels (at Startup Heroes event)   Seed
Funding

      AmountInUSD  yearmonth
2345      16000.0     201501
2346      16000.0     201501
2347      16000.0     201501
2348      16000.0     201501
2349      16000.0     201501
```

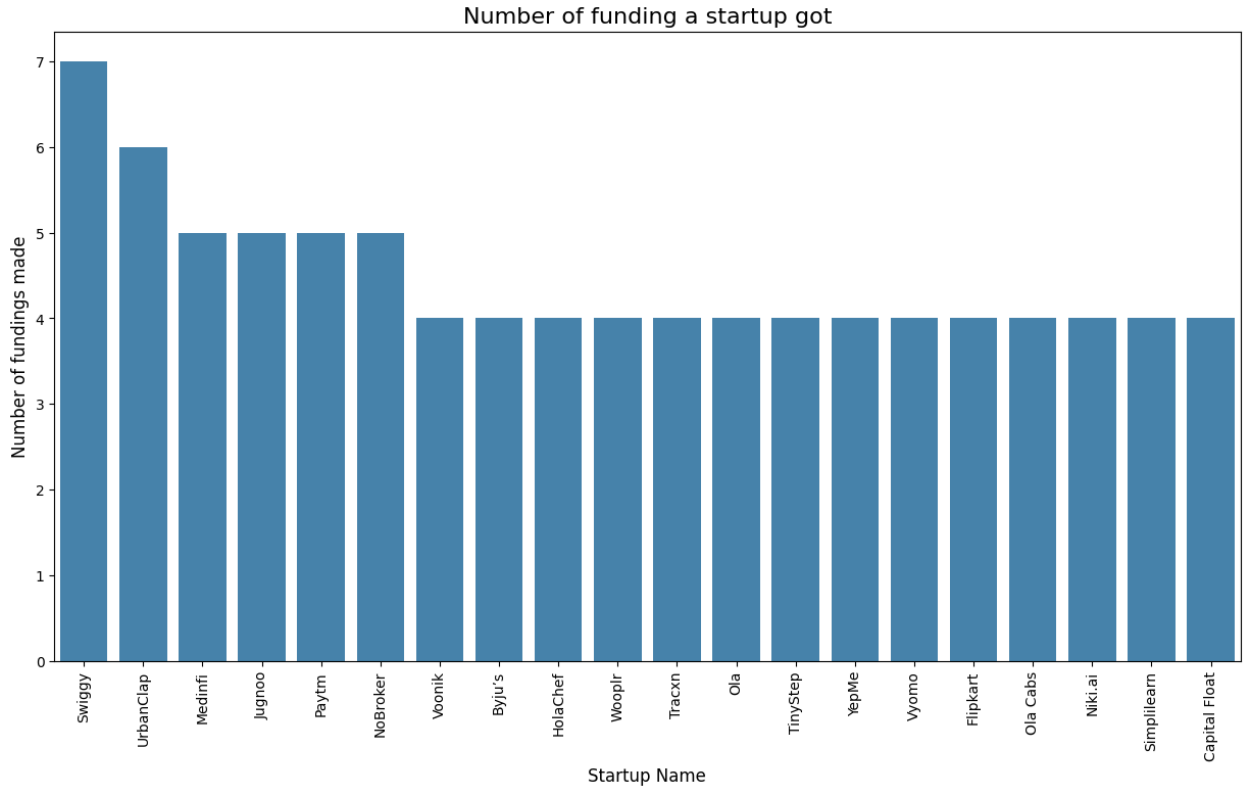
```
print("Average indian startups got funding of :
",funding_data["AmountInUSD"].dropna().sort_values().mean())
```

```
Average indian startups got funding of :  12031073.099016393
```

```
print("Total startups funded : ",
len(funding_data["StartupName"].unique()))
print(funding_data["StartupName"].value_counts().head(10))
startupname = funding_data['StartupName'].value_counts().head(20)
```

```
Total startups funded :  2001
StartupName
Swiggy       7
UrbanClap    6
Medinfi      5
Jugnoo       5
Paytm        5
NoBroker     5
Voonik       4
Byju’s       4
HolaChef     4
Wooplr       4
Name: count, dtype: int64
```

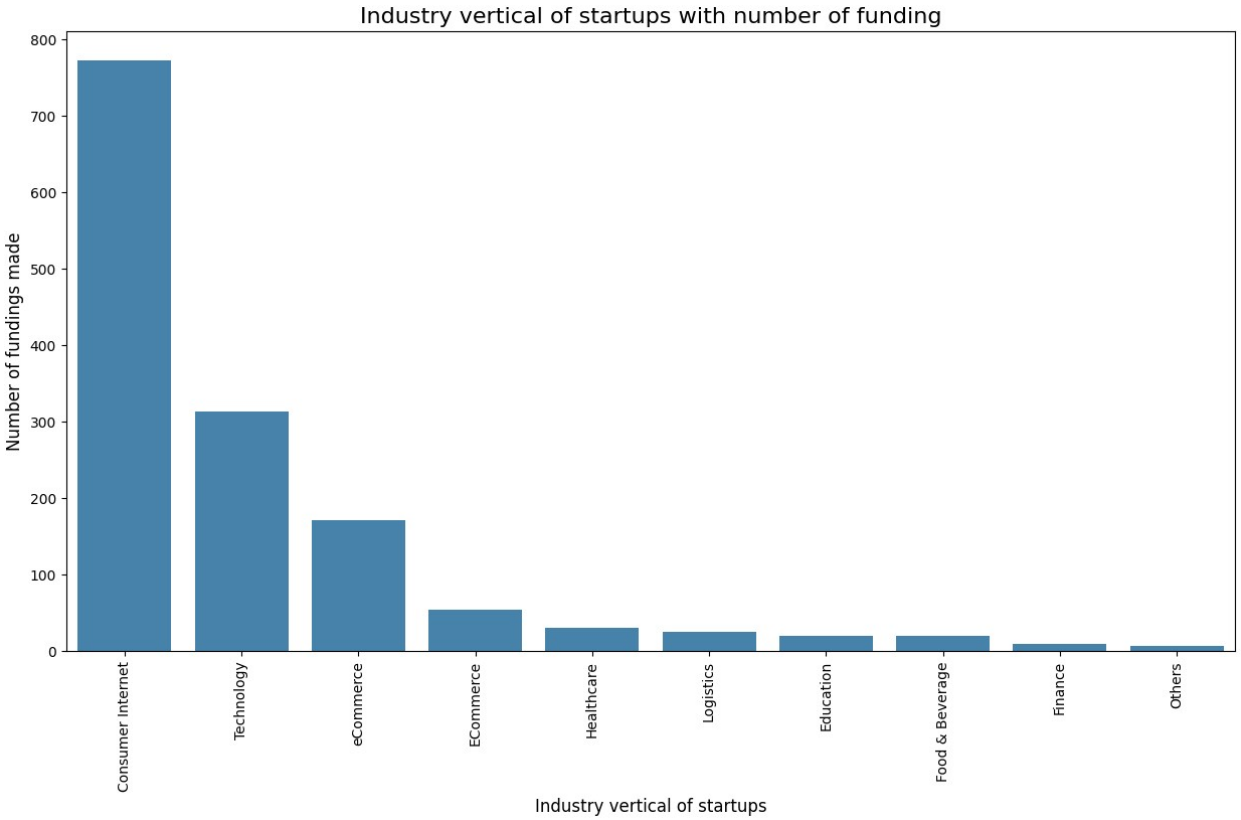
```
plt.figure(figsize=(15,8))
sns.barplot(x=startupname.index, y=startupname.values, alpha=0.9,
color=color[0])
plt.xticks(rotation='vertical')
plt.xlabel('Startup Name', fontsize=12)
plt.ylabel('Number of fundings made', fontsize=12)
plt.title("Number of funding a startup got", fontsize=16)
plt.show()
```




```
industry = funding_data['IndustryVertical'].value_counts().head(10)
print(industry)
```

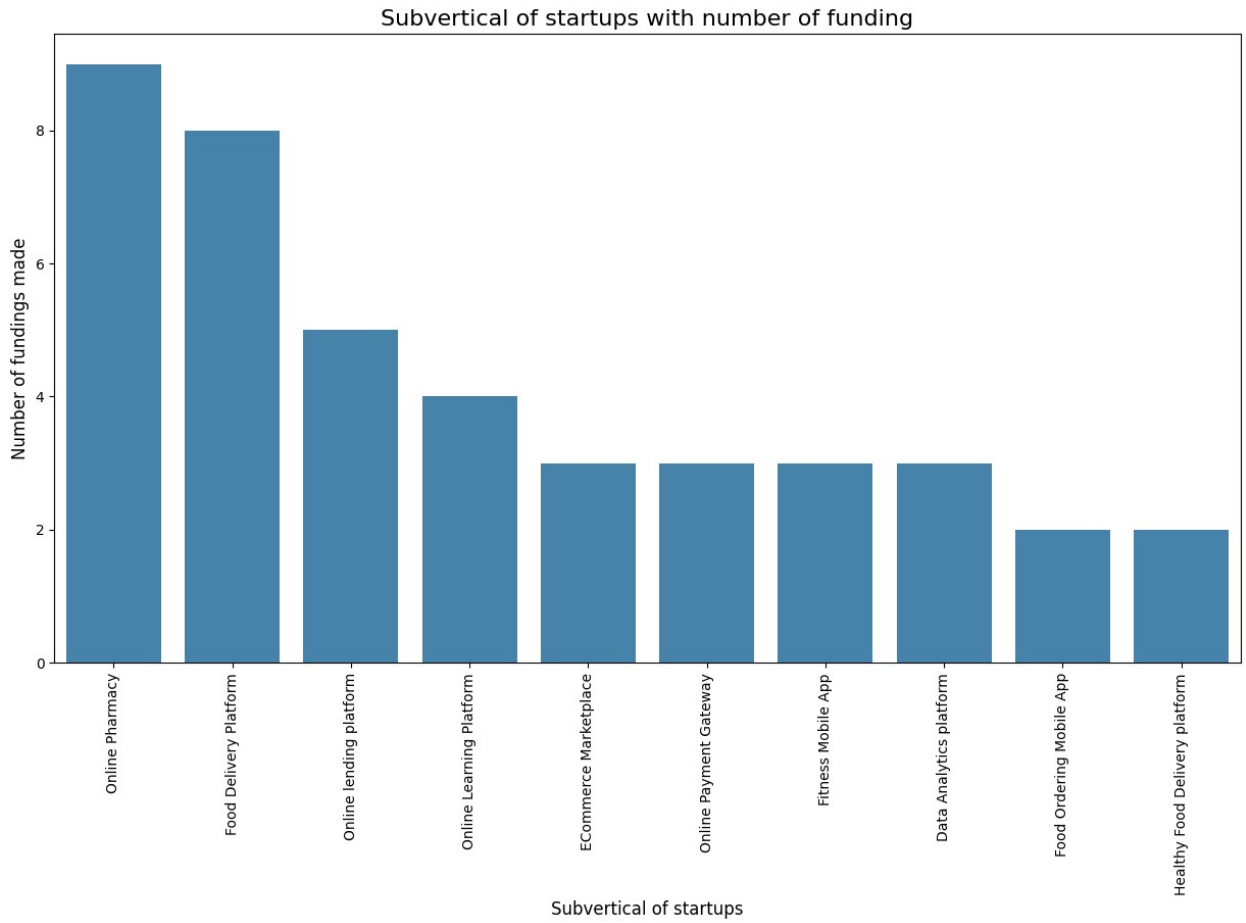
```
IndustryVertical
Consumer Internet    772
Technology           313
eCommerce            171
ECommerce             53
Healthcare            30
Logistics             24
Education             20
Food & Beverage       19
Finance                9
Others                 6
Name: count, dtype: int64
```

```
plt.figure(figsize=(15,8))
sns.barplot(x=industry.index, y=industry.values, alpha=0.9,
color=color[0])
plt.xticks(rotation='vertical')
plt.xlabel('Industry vertical of startups', fontsize=12)
plt.ylabel('Number of fundings made', fontsize=12)
plt.title("Industry vertical of startups with number of funding",
fontsize=16)
plt.show()
```




```
industry = funding_data['SubVertical'].value_counts().head(10)
print(industry)
plt.figure(figsize=(15,8))
sns.barplot(x=industry.index, y=industry.values, alpha=0.9,
color=color[0])
plt.xticks(rotation='vertical')
plt.xlabel('Subvertical of startups', fontsize=12)
plt.ylabel('Number of fundings made', fontsize=12)
plt.title("Subvertical of startups with number of funding",
fontsize=16)
plt.show()
```

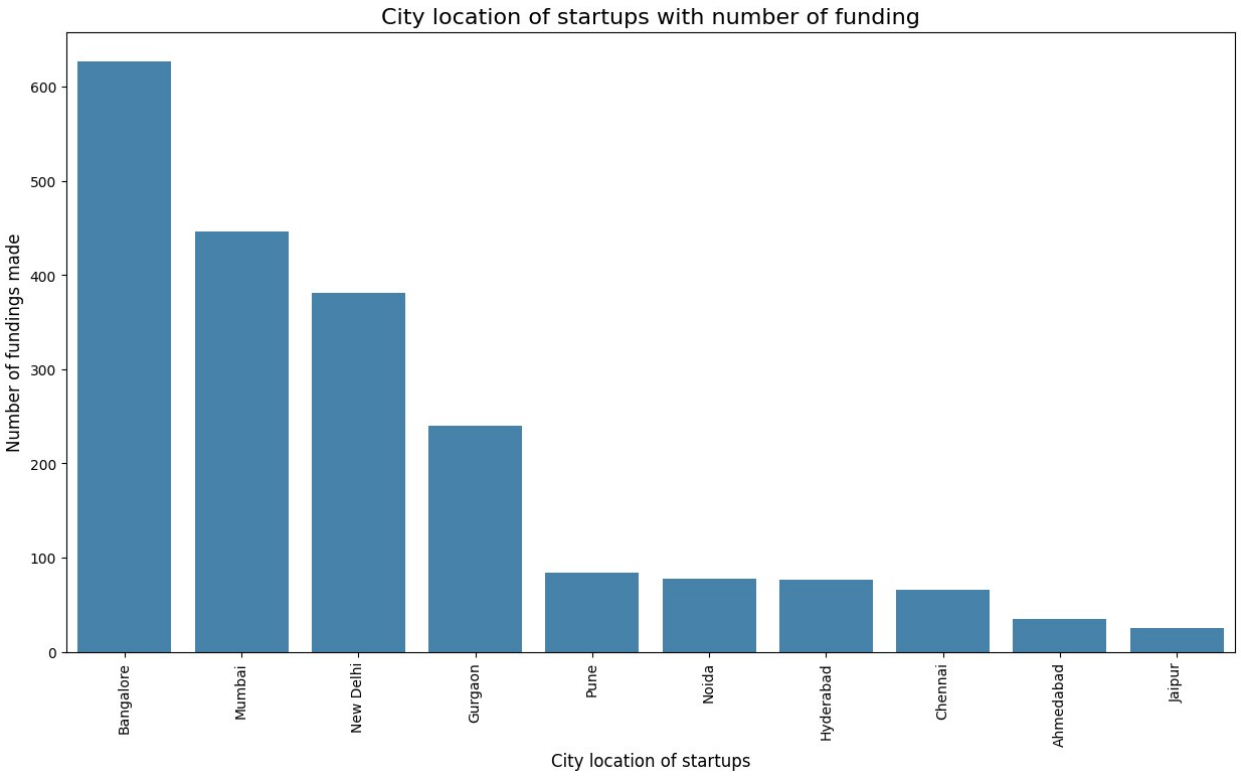
```
SubVertical
Online Pharmacy                    9
Food Delivery Platform             8
Online lending platform            5
Online Learning Platform           4
ECommerce Marketplace              3
Online Payment Gateway             3
Fitness Mobile App                 3
Data Analytics platform            3
Food Ordering Mobile App           2
Healthy Food Delivery platform     2
Name: count, dtype: int64
```




```
city = funding_data['CityLocation'].value_counts().head(10)
print(city)
plt.figure(figsize=(15,8))
sns.barplot(x=city.index, y=city.values, alpha=0.9, color=color[0])
plt.xticks(rotation='vertical')
plt.xlabel('City location of startups', fontsize=12)
plt.ylabel('Number of fundings made', fontsize=12)
plt.title("City location of startups with number of funding",
fontsize=16)
plt.show()
```

```
CityLocation
Bangalore    627
Mumbai       446
New Delhi    381
Gurgaon      240
Pune          84
Noida         78
Hyderabad     76
Chennai       66
Ahmedabad     35
```

```
Jaipur        25
Name: count, dtype: int64
```




```
investors = funding_data['InvestorsName'].value_counts().head(10)
print(investors)
```

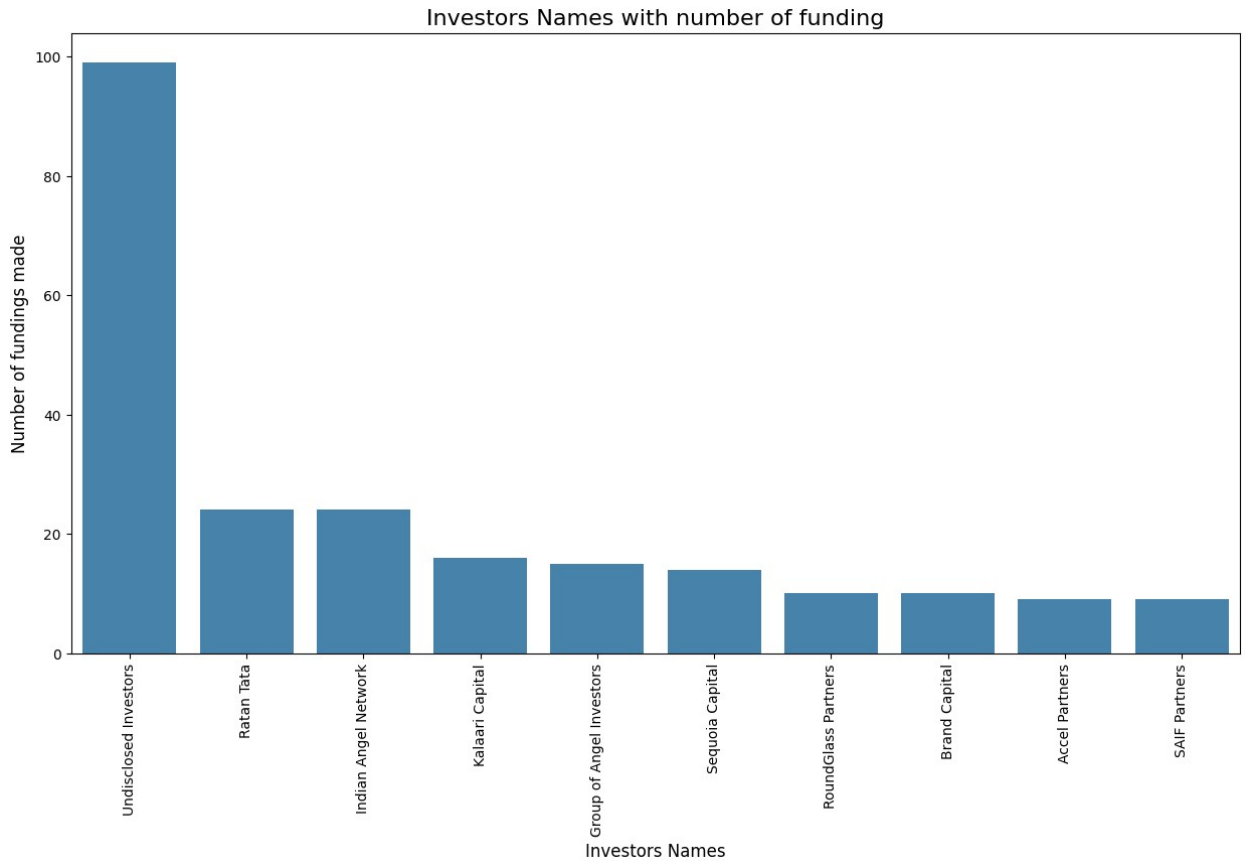
```
InvestorsName
Undisclosed Investors       33
Undisclosed investors       27
Ratan Tata                  24
Indian Angel Network        24
Kalaari Capital             16
Group of Angel Investors    15
Sequoia Capital             14
undisclosed investors       11
Brand Capital               10
Undisclosed Investor        10
Name: count, dtype: int64
```

```
funding_data['InvestorsName'] = funding_data['InvestorsName'].replace(
    ['Undisclosed Investors', 'Undisclosed investors', 'undisclosed
investors', 'Undisclosed Investor','Undisclosed
investor','Undisclosed'],
    'Undisclosed Investors'
)
```

```
investors = funding_data['InvestorsName'].value_counts().head(10)
print(investors)
```

```
InvestorsName
Undisclosed Investors       99
Ratan Tata                  24
Indian Angel Network        24
Kalaari Capital             16
Group of Angel Investors    15
Sequoia Capital             14
RoundGlass Partners         10
Brand Capital               10
Accel Partners               9
SAIF Partners                9
Name: count, dtype: int64
```

```
plt.figure(figsize=(15,8))
sns.barplot(x=investors.index, y=investors.values, alpha=0.9,
color=color[0])
plt.xticks(rotation='vertical')
plt.xlabel('Investors Names', fontsize=12)
plt.ylabel('Number of fundings made', fontsize=12)
plt.title("Investors Names with number of funding", fontsize=16)
plt.show()
```




```
investment = funding_data['InvestmentType'].value_counts()
investment
```

```
InvestmentType
Seed Funding      1271
Private Equity    1066
SeedFunding         30
Debt Funding         1
PrivateEquity        1
Crowd funding        1
Crowd Funding        1
Name: count, dtype: int64
```

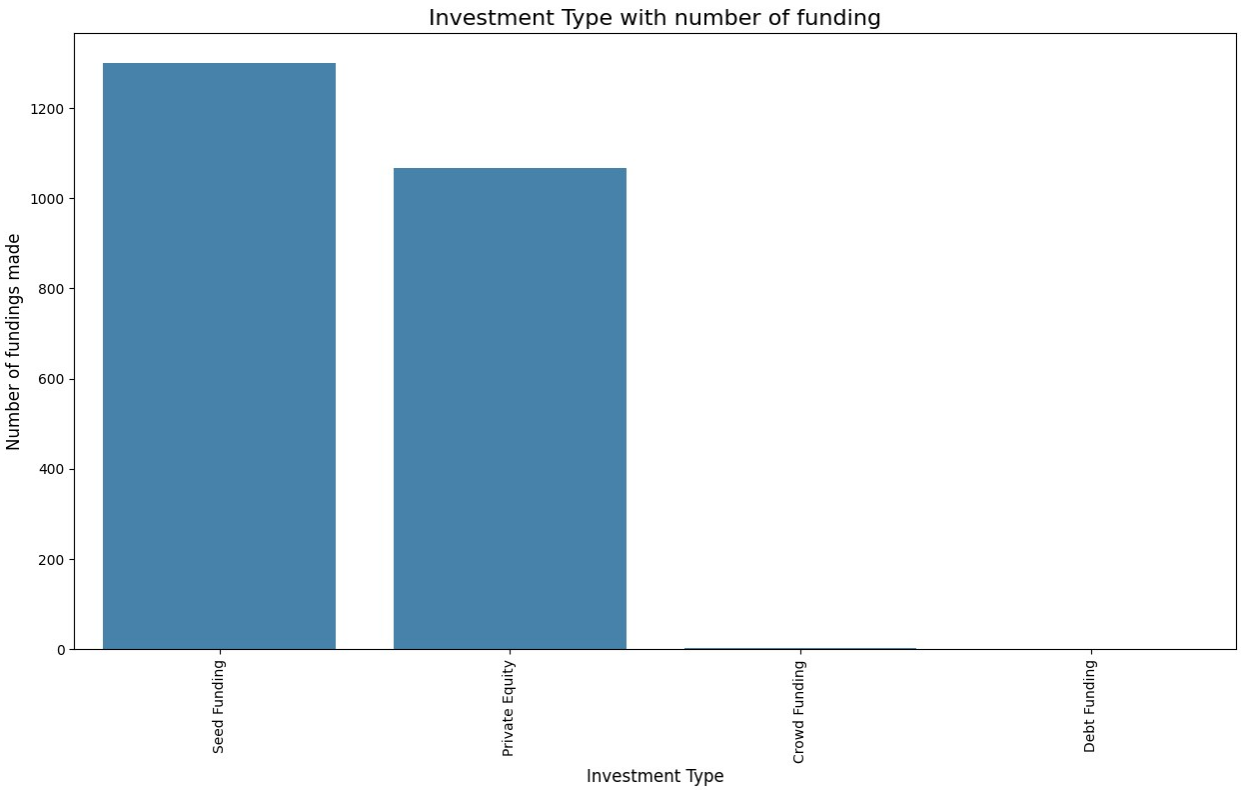
```
funding_data['InvestmentType'] =
funding_data['InvestmentType'].replace(
    ['SeedFunding', 'Seed Funding'], 'Seed Funding')

funding_data['InvestmentType'] =
funding_data['InvestmentType'].replace(
    ['PrivateEquity', 'Private Equity'], 'Private Equity')

funding_data['InvestmentType'] =
funding_data['InvestmentType'].replace(
    ['Crowd funding', 'Crowd Funding'], 'Crowd Funding')
```

```
investment_type = funding_data['InvestmentType'].value_counts()
print(investment_type)
```

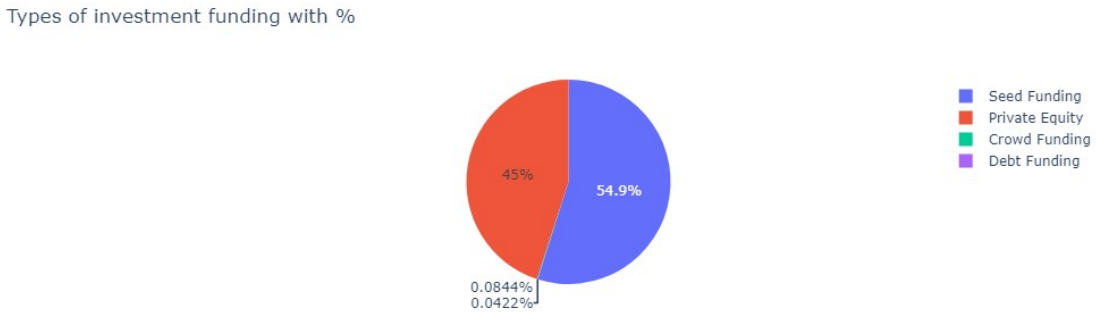
```
InvestmentType
Seed Funding      1301
Private Equity    1067
Crowd Funding        2
Debt Funding         1
Name: count, dtype: int64
```

```
investment = funding_data['InvestmentType'].value_counts()
print(investment)
plt.figure(figsize=(15,8))
sns.barplot(x=investment.index, y=investment.values, alpha=0.9,
color=color[0])
plt.xticks(rotation='vertical')
plt.xlabel('Investment Type', fontsize=12)
plt.ylabel('Number of fundings made', fontsize=12)
plt.title("Investment Type with number of funding", fontsize=16)
plt.show()
```

```
InvestmentType
Seed Funding      1301
Private Equity    1067
Crowd Funding        2
Debt Funding         1
Name: count, dtype: int64
```




```
temp = funding_data["InvestmentType"].value_counts()
labels = temp.index
sizes = (temp / temp.sum())*100
trace = go.Pie(labels=labels, values=sizes, hoverinfo='label+percent')
layout = go.Layout(title='Types of investment funding with %')

fig = go.Figure(data=data, layout=layout)
py.iplot(fig, filename="BorrowerGender")
```




```
# Exporting DataFrame to Excel
output_path = "funding_data_output.xlsx"  # Specify your output file path
```

```
funding_data.to_excel(output_path, index=False)  # Set index=False to exclude the DataFrame index

print(f"DataFrame exported successfully to {output_path}")
```

```
DataFrame exported successfully to funding_data_output.xlsx
```