Shark Tank India

About

Shark Tank India is an Indian Hindi-language business reality television series that airs on Sony Entertainment Television. The show is the Indian franchise of the American show Shark Tank. It shows entrepreneurs making business presentations to a panel of investors or sharks, who decide whether to invest in their company. This data is about the first season of Shark Tank India premiered on 20 December 2021, and concluded on 4 February 2022

Importing Required Modules

1. importing numpy for mathematical operation on arrays and dataframe.
2. importing pandas for reading data and data manipualtion.
3. importing matplotlib and seaborn to show the insights and visualization from the dataset.
4. importing warnings for Warning messages that are typically issued in dataframe where it is useful to alert the user of some condition in a program, where that condition (normally) doesn t warrant raising an exception and terminating the program.

In [1]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings("ignore")
```

In [2]:
```
sns.set(style = 'darkgrid')
```

In [3]:
```
pd.set_option('display.max_columns',None)
```

Reading Dataset and Checking the NaN Values , Data Types , and Statistical Analysis

1. Since data is in form of excel file we have to use pandas read_excel to load the data
2. After loading it is important to check the complete information of data as it can indication many of the hidden infomation such as null values in a column or a row
3. Check whether any null values are there or not. if it is present then following can be done,
   A. Filling NaN values with mean, median and mode using fillna() method
4. Describe data --> which can give statistical analysis

In [4]:
```
1 df=pd.read_csv('Shark Tank India Dataset (1).csv')
```

In [5]:
```
1 df
```

				Potato Chips		
4	2	5	Head and Heart	Brain Development Course	0	
...	...	...	...	...	...	
112	34	113	Green Protein	Plant-Based Protein	0	
113	34	114	On2Cook	Fastest Cooking Device	0	1
114	35	115	Jain Shikanji	Lemonade	1	
115	35	116	Woloo	Washroom Finder	0	
116	35	117	Elcare India	Carenting for Elders	0	1

117 rows × 28 columns

In [6]:
```
1 (50.0/5.0)*100
```

Out[6]: 1000.0

In [7]:
```
1 df.shape
```

Out[7]: (117, 28)

In [8]:

```
1 df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 117 entries, 0 to 116
Data columns (total 28 columns):
 #   Column                 Non-Null Count  Dtype  
---  ------                 --------------  -----  
 0   episode_number         117 non-null    int64  
 1   pitch_number           117 non-null    int64  
 2   brand_name             117 non-null    object 
 3   idea                   117 non-null    object 
 4   deal                   117 non-null    int64  
 5   pitcher_ask_amount     117 non-null    float64
 6   ask_equity             117 non-null    float64
 7   ask_valuation          117 non-null    float64
 8   deal_amount            117 non-null    float64
 9   deal_equity            117 non-null    float64
 10  deal_valuation         117 non-null    float64
 11  ashneer_present        117 non-null    int64  
 12  anupam_present         117 non-null    int64  
 13  aman_present           117 non-null    int64  
 14  namita_present         117 non-null    int64  
 15  vineeta_present        117 non-null    int64  
 16  peyush_present         117 non-null    int64  
 17  ghazal_present         117 non-null    int64  
 18  ashneer_deal           117 non-null    int64  
 19  anupam_deal            117 non-null    int64  
 20  aman_deal              117 non-null    int64  
 21  namita_deal            117 non-null    int64  
 22  vineeta_deal           117 non-null    int64  
 23  peyush_deal            117 non-null    int64  
 24  ghazal_deal            117 non-null    int64  
 25  total_sharks_invested  117 non-null    int64  
 26  amount_per_shark       117 non-null    float64
 27  equity_per_shark       117 non-null    float64
dtypes: float64(8), int64(18), object(2)
memory usage: 25.7+ KB
```

In [9]:
```
1 df.isnull().sum()
```

Out[9]:
```
episode_number           0
pitch_number             0
brand_name               0
idea                     0
deal                     0
pitcher_ask_amount       0
ask_equity               0
ask_valuation            0
deal_amount              0
deal_equity              0
deal_valuation           0
ashneer_present          0
anupam_present           0
aman_present             0
namita_present           0
vineeta_present          0
peyush_present           0
ghazal_present           0
ashneer_deal             0
anupam_deal              0
aman_deal                0
namita_deal              0
vineeta_deal             0
peyush_deal              0
ghazal_deal              0
total_sharks_invested    0
amount_per_shark         0
equity_per_shark         0
dtype: int64
```

In [10]:
```
1 df.shape
```

Out[10]:
```
(117, 28)
```

In [11]:
```
1 df.describe()
```

Out[11]:

	episode_number	pitch_number	deal	pitcher_ask_amount	ask_equity	ask
count	117.000000	117.000000	117.000000	117.000000	117.000000	
mean	18.735043	59.000000	0.555556	319.854709	5.188034	3
std	10.070778	33.919021	0.499041	2767.842777	3.892121	11
min	1.000000	1.000000	0.000000	0.001010	0.250000	
25%	10.000000	30.000000	0.000000	45.000000	2.500000	
50%	19.000000	59.000000	1.000000	50.000000	5.000000	1
75%	27.000000	88.000000	1.000000	80.000000	7.500000	2
max	35.000000	117.000000	1.000000	30000.000000	25.000000	120

Exploratory Data Analysis (EDA)

How many deals done in the whole season

In [12]:
```
done=df[df['deal']==1].count()[0]
print('Succesfull deals....',done)
not_done=df[df['deal']==0].count()[0]
print('Rejected deals....',not_done)
```

```
Succesfull deals.... 65
Rejected deals.... 52
```

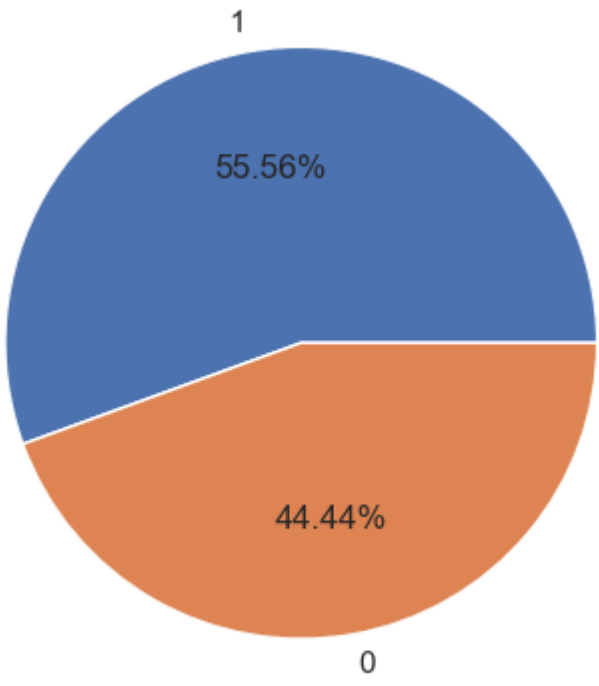
In [13]:
```
deal=df['deal'].value_counts().values[0]
no_deal=df['deal'].value_counts().values[1]
```

In [14]:
```
df['deal'].value_counts(normalize=True)
```

Out[14]:
```
1    0.555556
0    0.444444
Name: deal, dtype: float64
```

In [15]:
```
v=df['deal'].value_counts().values
i=df['deal'].value_counts().index
```

In [16]:
```
plt.pie(v,labels=i,autopct='%.2f%%');
```



In [17]:
```
print('hello')
```

```
hello
```

In [18]:
```
df['deal'].value_counts().values[0]
```

Out[18]: 65

In [19]:
```
df['deal'].value_counts(normalize=True)*100
```

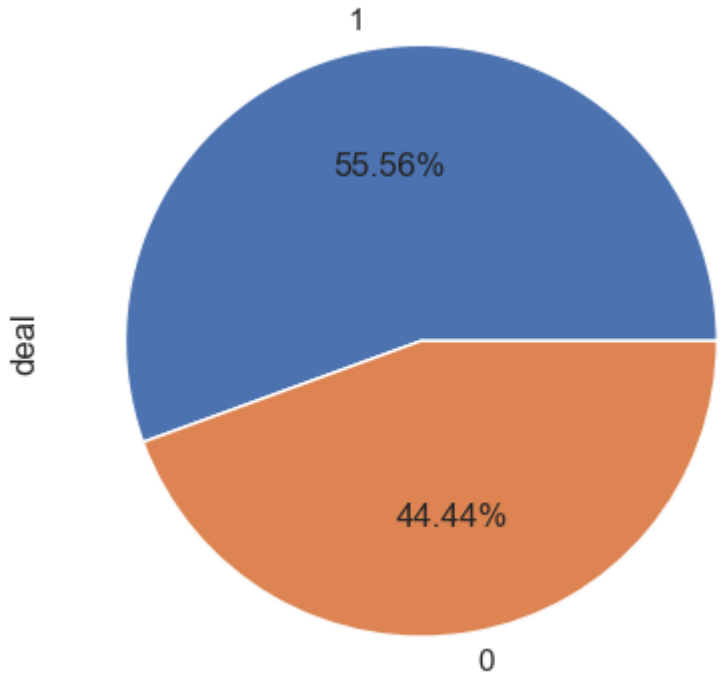
Out[19]:
```
1    55.555556
0    44.444444
Name: deal, dtype: float64
```

In [20]:
```
d=df['deal'].value_counts().values[0]
nd=df['deal'].value_counts().values[1]
print('Succesfull deals....',d)
print('UnSuccesfull deals....',nd)
```

```
Succesfull deals.... 65
UnSuccesfull deals.... 52
```

In [21]:
```
df['deal'].value_counts().plot(autopct='%.2f%%',kind='pie')
```

Out[21]: <Axes: ylabel='deal'>



Deals percentages

Most Dealing Episode

In [22]:

```
1 best_episodes=df.groupby(['episode_number'])['deal'].sum().sort_val
2 best_episodes
```

Out[22]:

	episode_number	deal
0	1	3
1	15	3
2	21	3
3	33	3
4	8	3
5	10	3
6	17	3
7	16	3
8	13	3
9	25	2
10	24	2
11	28	2
12	20	2
13	26	2
14	27	2
15	12	2
16	11	2
17	9	2
18	6	2
19	4	2
20	3	2
21	31	1
22	30	1
23	29	1
24	34	1
25	32	1
26	18	1
27	23	1
28	22	1
29	19	1
30	2	1
31	14	1
32	7	1
33	5	1
34	35	1

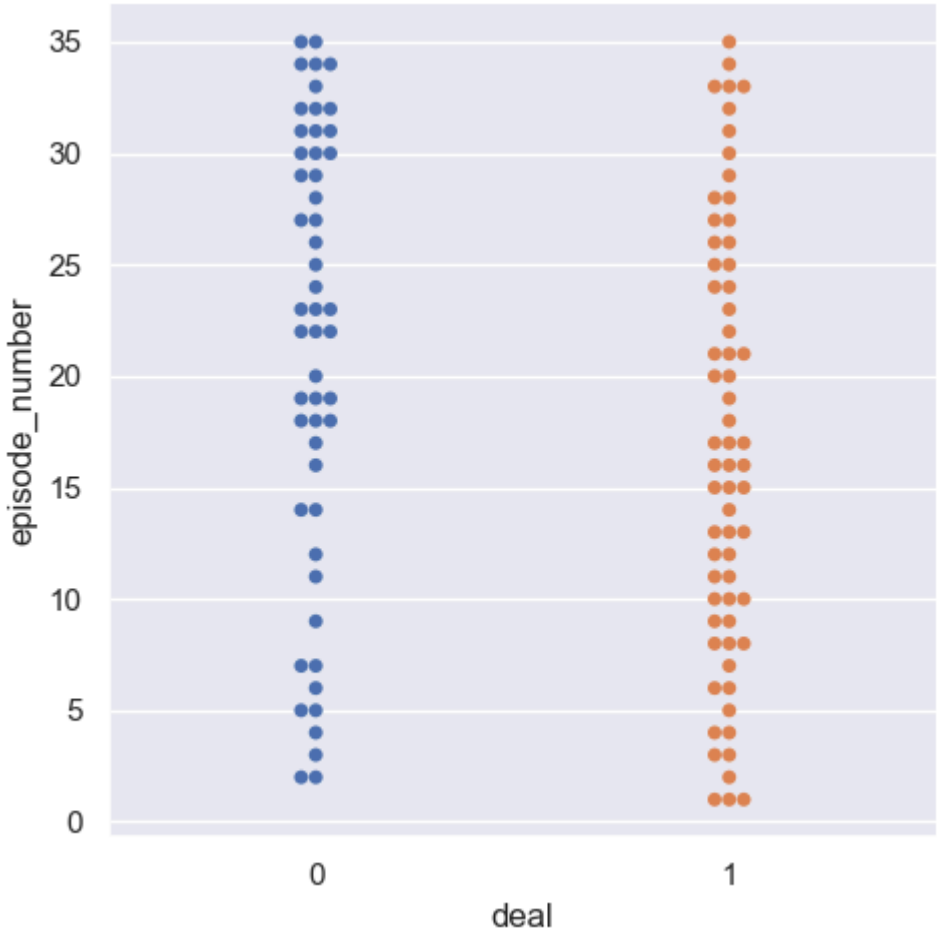
In [23]:
```
1 sns.set(style='darkgrid')
```

In [24]:
```
1 df['episode_number'].value_counts()
```

Out[24]:
```
18    4
30    4
17    4
16    4
22    4
23    4
27    4
31    4
32    4
33    4
34    4
19    4
29    3
28    3
20    3
26    3
25    3
24    3
21    3
1     3
2     3
15    3
14    3
13    3
12    3
11    3
10    3
9     3
8     3
7     3
6     3
5     3
4     3
3     3
35    3
Name: episode_number, dtype: int64
```

In [25]:
```
1 sns.catplot(x = 'deal', y = 'episode_number',kind='swarm',hue='deal
```

Out[25]: <seaborn.axisgrid.FacetGrid at 0x1ad0d6b8c70>



Most Expensive dealing Episodes

In [26]:

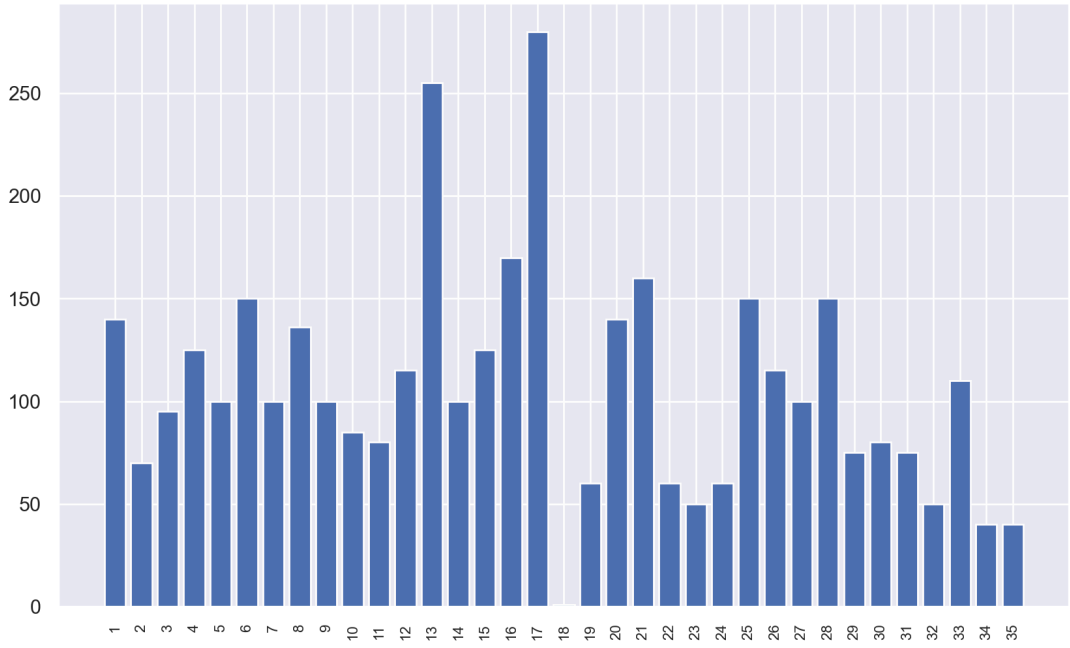
```
1 A=df.groupby(df['episode_number'])['deal_amount'].sum().sort_values
2 A
```

Out[26]:

	episode_number	deal_amount
0	17	280.00000
1	13	255.00000
2	16	170.00000
3	21	160.00000
4	28	150.00000
5	25	150.00000
6	6	150.00000
7	20	140.00000
8	1	140.00000
9	8	136.00000
10	15	125.00005
11	4	125.00000
12	12	115.00000
13	26	115.00000
14	33	110.00000
15	27	100.00101
16	9	100.00000
17	14	100.00000
18	7	100.00000
19	5	100.00000
20	3	95.00000
21	10	85.00000
22	11	80.00000
23	30	80.00000
24	29	75.00000
25	31	75.00000
26	2	70.00000
27	24	60.00000
28	19	60.00000
29	22	60.00000
30	23	50.00000
31	32	50.00000
32	34	40.00000
33	35	40.00000
34	18	1.00000

In [27]:

```
plt.figure(figsize=(10,6),dpi=200)
plt.bar(A['episode_number'],A['deal_amount'])
plt.xticks(A['episode_number'],rotation=90,fontsize=8)
plt.show()
```



All Sharks in

In [28]:

```
df[df['total_sharks_invested']==5]
```

Out[28]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
15	6	16	Skippi Pops	Ice-Pops	1	45.0	
49	17	50	Find Your Kicks India	Sneaker Resale	1	50.0	
63	20	64	IN A CAN	Can Cocktails	1	50.0	
79	25	80	Sunfox Technologies	Portable ECG Device	1	100.0	

In [29]:

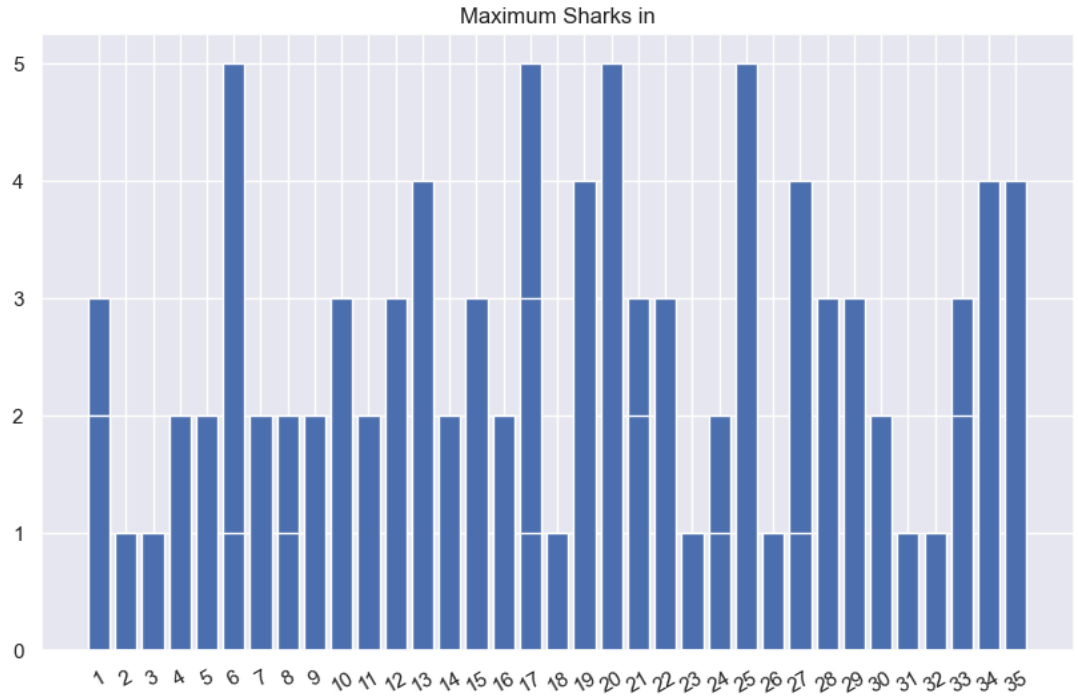
```
df['total_sharks_invested'].value_counts()
```

Out[29]:

```
0    52
1    22
2    20
3    14
4     5
5     4
Name: total_sharks_invested, dtype: int64
```

In [30]:

```
plt.figure(figsize=(10,6))
plt.title('Maximum Sharks in')
plt.bar(df['episode_number'],df['total_sharks_invested'])
plt.xticks(df['episode_number'].unique(),rotation=30);
```



In [31]:

```
df[df['total_sharks_invested']==5]
```

Out[31]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
15	6	16	Skippi Pops	Ice-Pops	1	45.0	
49	17	50	Find Your Kicks India	Sneaker Resale	1	50.0	
63	20	64	IN A CAN	Can Cocktails	1	50.0	
79	25	80	Sunfox Technologies	Portable ECG Device	1	100.0	

In [32]:

```
df.columns
```

Out[32]:

```
Index(['episode_number', 'pitch_number', 'brand_name', 'idea', 'deal',
       'pitcher_ask_amount', 'ask_equity', 'ask_valuation', 'deal_amou
nt',
       'deal_equity', 'deal_valuation', 'ashneer_present', 'anupam_pre
sent',
       'aman_present', 'namita_present', 'vineeta_present', 'peyush_pr
esent',
       'ghazal_present', 'ashneer_deal', 'anupam_deal', 'aman_deal',
       'namita_deal', 'vineeta_deal', 'peyush_deal', 'ghazal_deal',
       'total_sharks_invested', 'amount_per_shark', 'equity_per_shar
k'],
      dtype='object')
```

No Bargain Deal

In [33]:
```
1 df[(df['pitcher_ask_amount']==df['deal_amount']) & (df['ask_equity'
```

Out[33]:

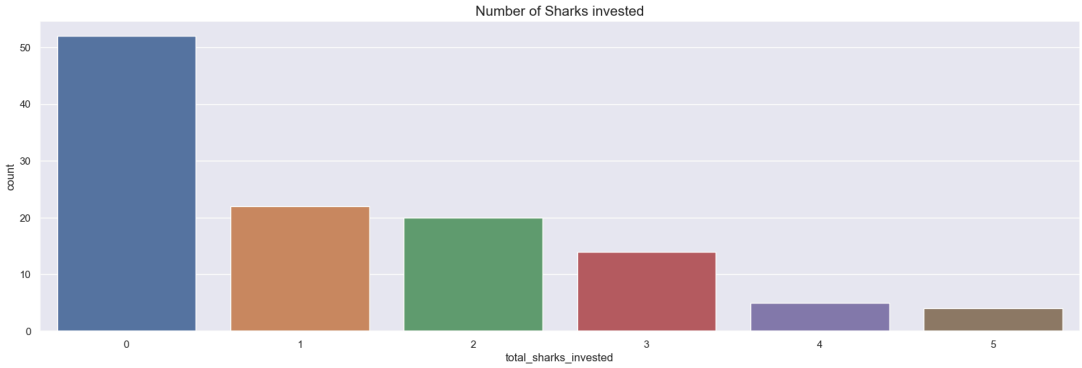
	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask
21	8	22	Beyond Snack	Kerala Banana Chips	1	50.0	

No of Sharks invested with respect to Business

In [34]:
```
1 df['total_sharks_invested'].value_counts()
```

Out[34]:
```
0    52
1    22
2    20
3    14
4     5
5     4
Name: total_sharks_invested, dtype: int64
```

In [35]:
```
1 plt.figure(figsize =(20, 6))
2 sns.countplot(x=df['total_sharks_invested'])
3 plt.title('Number of Sharks invested', fontsize = 15)
4 plt.show()
```



In [36]:
```
1 df.head(1)
```

Out[36]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_
0	1	1	BluePine Industries	Frozen Momos	1	50.0	

Created a function that show the Equity and Amount per shark

In [37]:
```
def sharks(data):
    list= ['anupam_deal','aman_deal','namita_deal','vineeta_deal','
    for i in list:
        deal = data[['amount_per_shark','equity_per_shark']][data[i
#         print("{} deals with {}".format(len(deal),i[:-5]))
        print('\n',len(deal),'deals with',i[:-5])
        print(deal)

```

In [38]:
```
# len(df[(df['ashneer_deal']==1) & (df['anupam_deal']==1)][['amount_
# len(df[(df['ashneer_deal']==1) & (df['aman_deal']==1)][['amount_p
```

Ashneer Deals

In [39]:

```
ash_grover = df[df['ashneer_deal']==1]
ash_grover
```

Out[39]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amour
0	1	1	BluePine Industries	Frozen Momos	1	50.
1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	40.
3	2	4	Tagz Foods	Healthy Potato Chips	1	70.
15	6	16	Skippi Pops	Ice-Pops	1	45.
18	7	19	Raising Superstars	Child Development App	0	100.
21	8	22	Beyond Snack	Kerala Banana Chips	1	50.
23	8	24	Motion Breeze	Smart Electric Motorcycle	1	30.
29	10	30	EventBeep	Student Community App	1	30.
38	13	39	The Yarn Bazaar	Yarn-Trading App	1	50.
45	16	46	Bamboo India	Bamboo Products	1	80.
49	17	50	Find Your Kicks India	Sneaker Resale	1	50.
50	17	51	Aas Vidyalaya	EdTech App	1	150.
55	18	56	Otua	Electric Auto Vehicle	1	100.
58	19	59	WeSTOCK	Livestock health monitoring AI	1	50.
63	20	64	IN A CAN	Can Cocktails	1	50.
64	21	65	Get a Whey	Sugar-Free Icecream	1	100.
67	22	68	Hair Originals	Natural Hair Extensions	1	60.
108	33	109	Tweek Labs	Sportswear	1	40.
109	33	110	Proxgy	VR	1	35.
110	34	111	Nomad Food Project	Bacon Jams	1	40.
114	35	115	Jain Shikanji	Lemonade	1	40.

In [40]:
```
1 sharks(ash_grover)
```

```
3          70.000000          2.750000
15         20.000000          3.000000
18         50.000000          2.000000
21         25.000000          1.250000
23         30.000000          6.000000
29         10.000000          1.000000
38         25.000000          2.500000
45         25.000000          1.750000
49         10.000000          5.000000
50         50.000000          5.000000
55          1.000000          1.000000
58         15.000000          2.500000
63         20.000000          2.000000
64         33.333333          5.000000
67         20.000000          1.333333
108        20.000000          3.333333
109         5.000000          5.000000
110        10.000000          5.000000
114        10.000000          7.500000
```

In [41]:
```
1 df
```

Out[41]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amoun
0	1	1	BluePine Industries	Frozen Momos	1	50.
1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	40.
2	1	3	Heart up my Sleeves	Detachable Sleeves	1	25.
3	2	4	Tagz Foods	Healthy Potato Chips	1	70.
4	2	5	Head and Heart	Brain Development Course	0	50.
...	...	...	...	...	...	.
112	34	113	Green Protein	Plant-Based Protein	0	60.
113	34	114	On2Cook	Fastest Cooking Device	0	100.
114	35	115	Jain Shikanji	Lemonade	1	40.
115	35	116	Woloo	Washroom Finder	0	50.
116	35	117	Elcare India	Carenting for Elders	0	100.

117 rows × 28 columns

In [42]:
```
amt=ash_grover['amount_per_shark'].sum()
print("Total amount invested on shark tank by Ashneer",amt,"lakhs")
```

```
Total amount invested on shark tank by Ashneer 494.33333333 lakhs
```

In [43]:
```
eqt=ash_grover['equity_per_shark'].sum()
print("Total equity buy on shark tank by Ashneer",eqt,'%')
```

```
Total equity buy on shark tank by Ashneer 93.249999999 %
```

In [44]:
```

eqt = df.groupby('ashneer_deal')['equity_per_shark'].sum()[1]
amt = df.groupby('ashneer_deal')['amount_per_shark'].sum()[1]
print("Total equity buy on shark tank by Ashneer",eqt,'%')
print("Total amount invested on shark tank by Ashneer",amt,"lakhs")
```

```
Total equity buy on shark tank by Ashneer 93.249999999 %
Total amount invested on shark tank by Ashneer 494.33333333 lakhs
```

In [45]:
```
ash_grover['amount_per_shark'].sum()
```

Out[45]:
```
494.33333333
```

In [46]:
```
ash_grover['amount_per_shark'].max()
```

Out[46]:
```
70.0
```

In [47]:
```
ash_grover[['amount_per_shark','equity_per_shark']][ash_grover['anu
```

Out[47]:

	amount_per_shark	equity_per_shark
15	20.0	3.000000
38	25.0	2.500000
45	25.0	1.750000
49	10.0	5.000000
63	20.0	2.000000
67	20.0	1.333333
108	20.0	3.333333
114	10.0	7.500000

In [48]:
```
# print(ash_grover[['amount_per_shark','equity_per_shark']][ash_gro
```

In [49]:
```
# ash_grover[ash_grover['amount_per_shark']==70.0]
```

In [50]:
```
1 ash_grover.sort_values(by='amount_per_shark',ascending=False).head(
```

Out[50]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_
3	2	4	Tagz Foods	Healthy Potato Chips	1	70.0	

In [51]:
```
1 ash_grover['amount_per_shark'].max()
```

Out[51]: 70.0

In [52]:
```
1 ash_grover[ash_grover['amount_per_shark']==ash_grover['amount_per_s
```

Out[52]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_
3	2	4	Tagz Foods	Healthy Potato Chips	1	70.0	

In [53]:
```
1 ash_grover[ash_grover['equity_per_shark']==ash_grover['equity_per_s
```

Out[53]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_
1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	40.0	

Anupam Deals

In [54]:

```
anupam = df[df['anupam_deal']==1]
anupam
```

Out[54]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amoun
2	1	3	Heart up my Sleeves	Detachable Sleeves	1	25.0000(
9	4	10	Cosiq	Intelligent Skincare	1	50.0000(
12	5	13	Revamp Moto	E-Bike	1	100.0000(
15	6	16	Skippi Pops	Ice-Pops	1	45.0000(
22	8	23	Vivalyf Innovations-Easy Life	Prickless Diabetes Testing Machine	1	56.0000(
28	10	29	Meatyour	Eggs	1	30.0000(
31	11	32	ARRCOAT Surface Textures	Wall Building	1	50.0000(
35	12	36	LOKA	Metaverse App	1	40.0000(
36	13	37	Annie	Braille Literary Device	1	30.0000(
37	13	38	Caragreen	Eco-Friendly boxes	1	50.0000(
38	13	39	The Yarn Bazaar	Yarn-Trading App	1	50.0000(
44	15	45	Cocofit	Coconut based beverage franchise	1	5.0000(
45	16	46	Bamboo India	Bamboo Products	1	80.0000(
48	16	49	Let's Try	Healthy Snacks	1	45.0000(
49	17	50	Find Your Kicks India	Sneaker Resale	1	50.0000(
63	20	64	IN A CAN	Can Cocktails	1	50.0000(
66	21	67	The Quirky Nari	Customised Apparels	1	35.0000(
67	22	68	Hair Originals	Natural Hair Extensions	1	60.0000(
75	24	76	The Sass Bar	Gifts	1	40.0000(
78	25	79	PawsIndia	Dog Products	1	50.0000(
79	25	80	Sunfox Technologies	Portable ECG Device	1	100.0000(
85	27	86	Watt Technovations	Ventilated PPE Kits	1	0.0010
108	33	109	Tweek Labs	Sportswear	1	40.0000(

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amoun
114	35	115	Jain Shikanji	Lemonade	1	40.0000(

In [55]:

```
1 sharks(anupam)
```

24 deals with anupam

	amount_per_shark	equity_per_shark
2	12.500000	15.000000
9	25.000000	12.500000
12	50.000000	0.750000
15	20.000000	3.000000
22	28.000000	16.650000
28	10.000000	6.666667
31	50.000000	15.000000
35	13.333333	8.000000
36	35.000000	1.000000
37	25.000000	10.000000
38	25.000000	2.500000
44	0.000017	1.666667
45	25.000000	1.750000
48	22.500000	6.000000
49	10.000000	5.000000
63	20.000000	2.000000
66	17.500000	12.000000
67	20.000000	1.333333
75	25.000000	17.500000
78	50.000000	15.000000
79	20.000000	1.200000
85	0.000253	1.000000
108	20.000000	3.333333
114	10.000000	7.500000

10 deals with aman

	amount_per_shark	equity_per_shark
12	50.000000	0.750000
15	20.000000	3.000000
28	10.000000	6.666667
35	13.333333	8.000000
38	25.000000	2.500000
44	0.000017	1.666667
48	22.500000	6.000000
49	10.000000	5.000000
63	20.000000	2.000000
114	10.000000	7.500000

7 deals with namita

	amount_per_shark	equity_per_shark
15	20.000000	3.000000
36	35.000000	1.000000
44	0.000017	1.666667
49	10.000000	5.000000
63	20.000000	2.000000
79	20.000000	1.200000
85	0.000253	1.000000

6 deals with vineeta

	amount_per_shark	equity_per_shark
2	12.5	15.0
9	25.0	12.5
15	20.0	3.0
66	17.5	12.0
79	20.0	1.2
114	10.0	7.5

12 deals with peyush

```
     amount_per_shark  equity_per_shark
22          28.000000         16.650000
28          10.000000          6.666667
35          13.333333          8.000000
36          35.000000          1.000000
37          25.000000         10.000000
38          25.000000          2.500000
49          10.000000          5.000000
63          20.000000          2.000000
67          20.000000          1.333333
79          20.000000          1.200000
85           0.000253          1.000000
108         20.000000          3.333333

 3 deals with ghazal
    amount_per_shark  equity_per_shark
75         25.000000              17.5
79         20.000000               1.2
85          0.000253               1.0

 8 deals with ashneer
     amount_per_shark  equity_per_shark
15               20.0          3.000000
38               25.0          2.500000
45               25.0          1.750000
49               10.0          5.000000
63               20.0          2.000000
67               20.0          1.333333
108              20.0          3.333333
114              10.0          7.500000
```

In [56]:

```
eqt = df.groupby('anupam_deal')['equity_per_shark'].sum()[1]
amt = df.groupby('anupam_deal')['amount_per_shark'].sum()[1]
print("Total equity buy on shark tank by Anupam",eqt,'%')
print("Total amount invested on shark tank by Anupam",amt,"lakhs")
```

```
Total equity buy on shark tank by Anupam 166.35 %
Total amount invested on shark tank by Anupam 533.83360253 lakhs
```

In [57]:

```
anupam['amount_per_shark'].sum()
```

Out[57]:

```
533.83360253
```

In [58]:

```
anupam['equity_per_shark'].sum()
```

Out[58]:

```
166.35
```

In [59]:
```
1 anupam[anupam['amount_per_shark']==anupam['amount_per_shark'].max()
```

Out[59]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
12	5	13	Revamp Moto	E-Bike	1	100.0	
31	11	32	ARRCOAT Surface Textures	Wall Building	1	50.0	
78	25	79	PawsIndia	Dog Products	1	50.0	

In [60]:
```
1 anupam[anupam['equity_per_shark']==anupam['equity_per_shark'].max()
```

Out[60]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_e
75	24	76	The Sass Bar	Gifts	1	40.0	

Aman Deals

In [61]:

```
aman = df[df['aman_deal']==1]
aman
```

Out[61]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amoun
0	1	1	BluePine Industries	Frozen Momos	1	50.
7	3	8	Peeschute	Disposable Urine Bag	1	75.
11	4	12	Bummer	Underwear	1	75.
12	5	13	Revamp Moto	E-Bike	1	100.
15	6	16	Skippi Pops	Ice-Pops	1	45.
18	7	19	Raising Superstars	Child Development App	0	100.
21	8	22	Beyond Snack	Kerala Banana Chips	1	50.
24	9	25	Altor	Smart Helmets	1	50.
25	9	26	Ariro	Wooden Toys	1	50.
27	10	28	Nuutjob	Male Intimate Hygiene	1	25.
28	10	29	Meatyour	Eggs	1	30.
29	10	30	EventBeep	Student Community App	1	30.
32	11	33	Farda	Customised Streetwear	1	30.
35	12	36	LOKA	Metaverse App	1	40.
38	13	39	The Yarn Bazaar	Yarn-Trading App	1	50.
39	14	40	The Renal Project	Home Dialysis Treatment	1	100.
42	15	43	Hammer Lifestyle	Smart Audio Products	1	30.
44	15	45	Cocofit	Coconut based beverage franchise	1	5.
47	16	48	Beyond Water	Liquid Water Enhancer	1	75.
48	16	49	Let's Try	Healthy Snacks	1	45.
49	17	50	Find Your Kicks India	Sneaker Resale	1	50.
58	19	59	WeSTOCK	Livestock health monitoring AI	1	50.
63	20	64	IN A CAN	Can Cocktails	1	50.

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amoun
64	21	65	Get a Whey	Sugar-Free Icecream	1	100.
71	23	72	Namhya Foods	Ayurvedic Enriched Food	1	100.
100	31	101	AyuRythm	Ayurvedic Wellness App	1	75.
104	32	105	GrowFitter	Rewards App	1	50.
114	35	115	Jain Shikanji	Lemonade	1	40.

In [62]:

```
1 sharks(aman)
```

10 deals with anupam

	amount_per_shark	equity_per_shark
12	50.000000	0.750000
15	20.000000	3.000000
28	10.000000	6.666667
35	13.333333	8.000000
38	25.000000	2.500000
44	0.000017	1.666667
48	22.500000	6.000000
49	10.000000	5.000000
63	20.000000	2.000000
114	10.000000	7.500000

28 deals with aman

	amount_per_shark	equity_per_shark
0	25.000000	5.333333
7	75.000000	6.000000
11	37.500000	3.750000
12	50.000000	0.750000
15	20.000000	3.000000
18	50.000000	2.000000
21	25.000000	1.250000
24	25.000000	3.500000
25	25.000000	5.000000
27	8.333333	6.666667
28	10.000000	6.666667
29	10.000000	1.000000
32	15.000000	10.000000
35	13.333333	8.000000
38	25.000000	2.500000
39	50.000000	3.000000
42	100.000000	40.000000
44	0.000017	1.666667
47	37.500000	7.500000
48	22.500000	6.000000
49	10.000000	5.000000
58	15.000000	2.500000
63	20.000000	2.000000
64	33.333333	5.000000
71	50.000000	10.000000
100	75.000000	2.680000
104	50.000000	2.000000
114	10.000000	7.500000

11 deals with namita

	amount_per_shark	equity_per_shark
11	37.500000	3.750000
15	20.000000	3.000000
24	25.000000	3.500000
27	8.333333	6.666667
32	15.000000	10.000000
39	50.000000	3.000000
44	0.000017	1.666667
47	37.500000	7.500000
49	10.000000	5.000000
58	15.000000	2.500000
63	20.000000	2.000000

4 deals with vineeta

	amount_per_shark	equity_per_shark

```
0           25.000000          5.333333
15          20.000000          3.000000
64          33.333333          5.000000
114         10.000000          7.500000

 9 deals with peyush
    amount_per_shark  equity_per_shark
25         25.000000          5.000000
27          8.333333          6.666667
28         10.000000          6.666667
29         10.000000          1.000000
35         13.333333          8.000000
38         25.000000          2.500000
49         10.000000          5.000000
58         15.000000          2.500000
63         20.000000          2.000000

 0 deals with ghazal
Empty DataFrame
Columns: [amount_per_shark, equity_per_shark]
Index: []

 11 deals with ashneer
     amount_per_shark  equity_per_shark
0           25.000000          5.333333
15          20.000000          3.000000
18          50.000000          2.000000
21          25.000000          1.250000
29          10.000000          1.000000
38          25.000000          2.500000
49          10.000000          5.000000
58          15.000000          2.500000
63          20.000000          2.000000
64          33.333333          5.000000
114         10.000000          7.500000
```

In [63]:
```
1 eqt = df.groupby('aman_deal')['equity_per_shark'].sum()[1]
2 amt = df.groupby('aman_deal')['amount_per_shark'].sum()[1]
3 print("Total equity buy on shark tank by Aman",eqt,'%')
4 print("Total amount invested on shark tank by Aman",amt,"lakhs")
```

```
Total equity buy on shark tank by Aman 160.263333334 %
Total amount invested on shark tank by Aman 887.500016693 lakhs
```

In [64]:
```
1 aman['amount_per_shark'].sum()
```

Out[64]: 887.500016693

In [65]:
```
1 aman['equity_per_shark'].sum()
```

Out[65]: 160.263333334

In [66]:
```
1 aman[aman['amount_per_shark']==aman['amount_per_shark'].max()]
```

Out[66]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
42	15	43	Hammer Lifestyle	Smart Audio Products	1	30.0	

In [67]:
```
1 aman[aman['deal_equity']==aman['deal_equity'].max()]
```

Out[67]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
42	15	43	Hammer Lifestyle	Smart Audio Products	1	30.0	

Namita Deals

In [68]:

```
1 namita = df[df['namita_deal']==1]
2 namita
```

Out[68]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amoun
11	4	12	Bummer	Underwear	1	75.0000(
15	6	16	Skippi Pops	Ice-Pops	1	45.0000(
16	6	17	Menstrupedia	Menstrual Awareness Comic	1	50.0000(
24	9	25	Altor	Smart Helmets	1	50.0000(
27	10	28	Nuutjob	Male Intimate Hygiene	1	25.0000(
32	11	33	Farda	Customised Streetwear	1	30.0000(
33	12	34	Auli Lifestyle	Ayurvedic Products	1	75.0000(
36	13	37	Annie	Braille Literary Device	1	30.0000(
39	14	40	The Renal Project	Home Dialysis Treatment	1	100.0000(
44	15	45	Cocofit	Coconut based beverage franchise	1	5.0000(
47	16	48	Beyond Water	Liquid Water Enhancer	1	75.0000(
49	17	50	Find Your Kicks India	Sneaker Resale	1	50.0000(
50	17	51	Aas Vidyalaya	EdTech App	1	150.0000(
58	19	59	WeSTOCK	Livestock health monitoring AI	1	50.0000(
63	20	64	IN A CAN	Can Cocktails	1	50.0000(
79	25	80	Sunfox Technologies	Portable ECG Device	1	100.0000(
83	26	84	Rare Planet	Handicrafts	1	65.0000(
85	27	86	Watt Technovations	Ventilated PPE Kits	1	0.0010
91	29	92	Wakao Foods	Jackfruit Products	1	75.0000(
95	30	96	Kabaddi Adda	All-Kabaddi App	1	80.0000(
106	33	107	Colour Me Mad	Insoles	1	40.0000(
110	34	111	Nomad Food Project	Bacon Jams	1	40.0000(

In [69]:

```
1 sharks(namita)
```

```
 7 deals with anupam
    amount_per_shark  equity_per_shark
15         20.000000          3.000000
36         35.000000          1.000000
44          0.000017          1.666667
49         10.000000          5.000000
63         20.000000          2.000000
79         20.000000          1.200000
85          0.000253          1.000000

 11 deals with aman
    amount_per_shark  equity_per_shark
11         37.500000          3.750000
15         20.000000          3.000000
24         25.000000          3.500000
27          8.333333          6.666667
32         15.000000         10.000000
39         50.000000          3.000000
44          0.000017          1.666667
47         37.500000          7.500000
49         10.000000          5.000000
58         15.000000          2.500000
63         20.000000          2.000000

 22 deals with namita
     amount_per_shark  equity_per_shark
11          37.500000          3.750000
15          20.000000          3.000000
16          50.000000         20.000000
24          25.000000          3.500000
27           8.333333          6.666667
32          15.000000         10.000000
33          75.000000         15.000000
36          35.000000          1.000000
39          50.000000          3.000000
44           0.000017          1.666667
47          37.500000          7.500000
49          10.000000          5.000000
50          50.000000          5.000000
58          15.000000          2.500000
63          20.000000          2.000000
79          20.000000          1.200000
83          65.000000          3.000000
85           0.000253          1.000000
91          25.000000          7.000000
95          40.000000          3.000000
106         40.000000         25.000000
110         10.000000          5.000000

 5 deals with vineeta
     amount_per_shark  equity_per_shark
15               20.0               3.0
79               20.0               1.2
91               25.0               7.0
95               40.0               3.0
110              10.0               5.0

 8 deals with peyush
    amount_per_shark  equity_per_shark
27          8.333333          6.666667
```

```
36          35.000000           1.000000
49          10.000000           5.000000
50          50.000000           5.000000
58          15.000000           2.500000
63          20.000000           2.000000
79          20.000000           1.200000
85           0.000253           1.000000

 4 deals with ghazal
     amount_per_shark  equity_per_shark
79          20.000000               1.2
85           0.000253               1.0
91          25.000000               7.0
110         10.000000               5.0

 6 deals with ashneer
     amount_per_shark  equity_per_shark
15               20.0               3.0
49               10.0               5.0
50               50.0               5.0
58               15.0               2.5
63               20.0               2.0
110              10.0               5.0
```

In [70]:

```
eqt = df.groupby('namita_deal')['equity_per_shark'].sum()[1]
amt = df.groupby('namita_deal')['amount_per_shark'].sum()[1]
print("Total equity buy on shark tank by namita",eqt,'%')
print("Total amount invested on shark tank by namita",amt,"lakhs")
```

```
Total equity buy on shark tank by namita 134.783333334 %
Total amount invested on shark tank by namita 648.333602533 lakhs
```

In [71]:

```
namita[namita['amount_per_shark']==namita['amount_per_shark'].max()
```

Out[71]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	a
33	12	34	Auli Lifestyle	Ayurvedic Products	1	75.0	

In [72]:

```
namita[namita['equity_per_shark']==namita['equity_per_shark'].max()
```

Out[72]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
106	33	107	Colour Me Mad	Insoles	1	40.0	

Vineeta Deals

In [73]:
```
vineeta = df[df['vineeta_deal']==1]
vineeta
```

Out[73]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount
0	1	1	BluePine Industries	Frozen Momos	1	50.0
1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	40.0
2	1	3	Heart up my Sleeves	Detachable Sleeves	1	25.0
8	3	9	NOCD	Energy Drink	1	50.0
9	4	10	Cosiq	Intelligent Skincare	1	50.0
15	6	16	Skippi Pops	Ice-Pops	1	45.0
64	21	65	Get a Whey	Sugar-Free Icecream	1	100.0
66	21	67	The Quirky Nari	Customised Apparels	1	35.0
79	25	80	Sunfox Technologies	Portable ECG Device	1	100.0
88	28	89	Humpy A2	Organic Milk Products	1	75.0
90	28	91	Gold Safe Solutions Ind.	Anti-Suicidal Fan Rod	1	50.0
91	29	92	Wakao Foods	Jackfruit Products	1	75.0
95	30	96	Kabaddi Adda	All-Kabaddi App	1	80.0
110	34	111	Nomad Food Project	Bacon Jams	1	40.0
114	35	115	Jain Shikanji	Lemonade	1	40.0

In [74]:
```
vineeta['amount_per_shark'].sum()
```

Out[74]: 328.3333333300001

In [75]:
```
vineeta['equity_per_shark'].sum()
```

Out[75]: 131.533333333

In [76]:

```
1 sharks(vineeta)
```

```
 6 deals with anupam
     amount_per_shark  equity_per_shark
2                12.5              15.0
9                25.0              12.5
15               20.0               3.0
66               17.5              12.0
79               20.0               1.2
114              10.0               7.5

 4 deals with aman
     amount_per_shark  equity_per_shark
0           25.000000          5.333333
15          20.000000          3.000000
64          33.333333          5.000000
114         10.000000          7.500000

 5 deals with namita
     amount_per_shark  equity_per_shark
15               20.0               3.0
79               20.0               1.2
91               25.0               7.0
95               40.0               3.0
110              10.0               5.0

 15 deals with vineeta
     amount_per_shark  equity_per_shark
0           25.000000          5.333333
1           20.000000         25.000000
2           12.500000         15.000000
8           20.000000         15.000000
9           25.000000         12.500000
15          20.000000          3.000000
64          33.333333          5.000000
66          17.500000         12.000000
79          20.000000          1.200000
88          33.333333          5.000000
90          16.666667         10.000000
91          25.000000          7.000000
95          40.000000          3.000000
110         10.000000          5.000000
114         10.000000          7.500000

 3 deals with peyush
    amount_per_shark  equity_per_shark
79         20.000000               1.2
88         33.333333               5.0
90         16.666667              10.0

 5 deals with ghazal
     amount_per_shark  equity_per_shark
79          20.000000               1.2
88          33.333333               5.0
90          16.666667              10.0
91          25.000000               7.0
110         10.000000               5.0

 6 deals with ashneer
     amount_per_shark  equity_per_shark
0           25.000000          5.333333
1           20.000000         25.000000
```

```
15          20.000000          3.000000
64          33.333333          5.000000
110         10.000000          5.000000
114         10.000000          7.500000
```

In [77]:
```
eqt = df.groupby('vineeta_deal')['equity_per_shark'].sum()[1]
amt = df.groupby('vineeta_deal')['amount_per_shark'].sum()[1]
print("Total equity buy on shark tank by vineeta",eqt,'%')
print("Total amount invested on shark tank by vineeta",amt,"lakhs")
```

```
Total equity buy on shark tank by vineeta 131.533333333 %
Total amount invested on shark tank by vineeta 328.33333333 lakhs
```

In [78]:
```
vineeta[vineeta['amount_per_shark']==vineeta['amount_per_shark'].ma
```

Out[78]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	asl
95	30	96	Kabaddi Adda	All-Kabaddi App	1	80.0	

In [79]:
```
vineeta[vineeta['deal_equity']==vineeta['deal_equity'].max()]
```

Out[79]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_
1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	40.0	

Peyush Deals

In [80]:

```
1 peyush= df[df['peyush_deal']==1]
2 peyush
```

Out[80]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount
22	8	23	Vivalyf Innovations-Easy Life	Prickless Diabetes Testing Machine	1	56.00000
25	9	26	Ariro	Wooden Toys	1	50.00000
27	10	28	Nuutjob	Male Intimate Hygiene	1	25.00000
28	10	29	Meatyour	Eggs	1	30.00000
29	10	30	EventBeep	Student Community App	1	30.00000
35	12	36	LOKA	Metaverse App	1	40.00000
36	13	37	Annie	Braille Literary Device	1	30.00000
37	13	38	Caragreen	Eco-Friendly boxes	1	50.00000
38	13	39	The Yarn Bazaar	Yarn-Trading App	1	50.00000
43	15	44	PNT	Robotics and Automation Solutions	1	50.00000
49	17	50	Find Your Kicks India	Sneaker Resale	1	50.00000
50	17	51	Aas Vidyalaya	EdTech App	1	150.00000
52	17	53	RoadBounce	Pothole Detection Software and Data	1	80.00000
58	19	59	WeSTOCK	Livestock health monitoring AI	1	50.00000
61	20	62	The State Plate	Delicacies	1	65.00000
63	20	64	IN A CAN	Can Cocktails	1	50.00000
65	21	66	Sid07 Designs	Inventions	1	47.00000
67	22	68	Hair Originals	Natural Hair Extensions	1	60.00000
76	24	77	KG Agrotech	Agricultural Innovations	1	30.00000
79	25	80	Sunfox Technologies	Portable ECG Device	1	100.00000

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount
81	26	82	Isak Fragrances	Perfumes	1	50.00000
85	27	86	Watt Technovations	Ventilated PPE Kits	1	0.00101
87	27	88	Insurance Samadhan	Insurance Solutions	1	100.00000
88	28	89	Humpy A2	Organic Milk Products	1	75.00000
90	28	91	Gold Safe Solutions Ind.	Anti-Suicidal Fan Rod	1	50.00000
108	33	109	Tweek Labs	Sportswear	1	40.00000
109	33	110	Proxgy	VR	1	35.00000

In [81]:
```
1 peyush['amount_per_shark'].sum()
```

Out[81]: 719.6669191630001

In [82]:
```
1 peyush['equity_per_shark'].sum()
```

Out[82]: 315.84999999999997

In [83]:
```
1 sharks(peyush)
```

```
 12 deals with anupam
     amount_per_shark  equity_per_shark
22          28.000000         16.650000
28          10.000000          6.666667
35          13.333333          8.000000
36          35.000000          1.000000
37          25.000000         10.000000
38          25.000000          2.500000
49          10.000000          5.000000
63          20.000000          2.000000
67          20.000000          1.333333
79          20.000000          1.200000
85           0.000253          1.000000
108         20.000000          3.333333

 9 deals with aman
    amount_per_shark  equity_per_shark
25         25.000000          5.000000
```

In [84]:
```
1 eqt = df.groupby('peyush_deal')['equity_per_shark'].sum()[1]
2 amt = df.groupby('peyush_deal')['amount_per_shark'].sum()[1]
3 print("Total equity buy on shark tank by peyush",eqt,'%')
4 print("Total amount invested on shark tank by peyush",amt,"lakhs")
```

```
Total equity buy on shark tank by peyush 315.85 %
Total amount invested on shark tank by peyush 719.666919163 lakhs
```

In [85]:
```
1 peyush[peyush['amount_per_shark']==peyush['amount_per_shark'].max()
```

Out[85]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	a
87	27	88	Insurance Samadhan	Insurance Solutions	1	100.0	

In [86]:
```
1 peyush[peyush['deal_equity']==peyush['deal_equity'].max()]
```

Out[86]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	a
65	21	66	Sid07 Designs	Inventions	1	47.0	

In [87]:

```
1 peyush.sort_values(by='equity_per_shark',ascending=False)
```

Out[87]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount
65	21	66	Sid07 Designs	Inventions	1	47.00000
81	26	82	Isak Fragrances	Perfumes	1	50.00000
76	24	77	KG Agrotech	Agricultural Innovations	1	30.00000
43	15	44	PNT	Robotics and Automation Solutions	1	50.00000
52	17	53	RoadBounce	Pothole Detection Software and Data	1	80.00000
22	8	23	Vivalyf Innovations-Easy Life	Prickless Diabetes Testing Machine	1	56.00000
90	28	91	Gold Safe Solutions Ind.	Anti-Suicidal Fan Rod	1	50.00000
37	13	38	Caragreen	Eco-Friendly boxes	1	50.00000
35	12	36	LOKA	Metaverse App	1	40.00000
27	10	28	Nuutjob	Male Intimate Hygiene	1	25.00000
28	10	29	Meatyour	Eggs	1	30.00000
25	9	26	Ariro	Wooden Toys	1	50.00000
88	28	89	Humpy A2	Organic Milk Products	1	75.00000
109	33	110	Proxgy	VR	1	35.00000
50	17	51	Aas Vidyalaya	EdTech App	1	150.00000
49	17	50	Find Your Kicks India	Sneaker Resale	1	50.00000
87	27	88	Insurance Samadhan	Insurance Solutions	1	100.00000
108	33	109	Tweek Labs	Sportswear	1	40.00000
61	20	62	The State Plate	Delicacies	1	65.00000
38	13	39	The Yarn Bazaar	Yarn-Trading App	1	50.00000
58	19	59	WeSTOCK	Livestock health monitoring AI	1	50.00000

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount
63	20	64	IN A CAN	Can Cocktails	1	50.00000
67	22	68	Hair Originals	Natural Hair Extensions	1	60.00000
79	25	80	Sunfox Technologies	Portable ECG Device	1	100.00000
85	27	86	Watt Technovations	Ventilated PPE Kits	1	0.00101
36	13	37	Annie	Braille Literary Device	1	30.00000
29	10	30	EventBeep	Student Community App	1	30.00000

Ghazal Deals

In [88]:
```
1 ghazal=df[df['ghazal_deal']==1]
2 ghazal
```

Out[88]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount
75	24	76	The Sass Bar	Gifts	1	40.00000
79	25	80	Sunfox Technologies	Portable ECG Device	1	100.00000
85	27	86	Watt Technovations	Ventilated PPE Kits	1	0.00101
88	28	89	Humpy A2	Organic Milk Products	1	75.00000
90	28	91	Gold Safe Solutions Ind.	Anti-Suicidal Fan Rod	1	50.00000
91	29	92	Wakao Foods	Jackfruit Products	1	75.00000
110	34	111	Nomad Food Project	Bacon Jams	1	40.00000

In [89]:
```
1 ghazal['amount_per_shark'].sum()
```

Out[89]: 130.0002525

In [90]:
```
1 ghazal['equity_per_shark'].sum()
```

Out[90]: 46.7

In [91]:
```
1 sharks(ghazal)
```

```
4 deals with peyush
    amount_per_shark  equity_per_shark
79          20.000000               1.2
85           0.000253               1.0
88          33.333333               5.0
90          16.666667              10.0

 7 deals with ghazal
     amount_per_shark  equity_per_shark
75          25.000000              17.5
79          20.000000               1.2
85           0.000253               1.0
88          33.333333               5.0
90          16.666667              10.0
91          25.000000               7.0
110         10.000000               5.0

 1 deals with ashneer
     amount_per_shark  equity_per_shark
110             10.0               5.0
```

In [92]:
```
1 eqt = df.groupby('ghazal_deal')['equity_per_shark'].sum()[1]
2 amt = df.groupby('ghazal_deal')['amount_per_shark'].sum()[1]
3 print("Total equity buy on shark tank by ghazal",eqt,'%')
4 print("Total amount invested on shark tank by ghazal",amt,"lakhs")
```

```
Total equity buy on shark tank by ghazal 46.7 %
Total amount invested on shark tank by ghazal 130.00025250000002 lakhs
```

In [93]:
```
1 ghazal[ghazal['amount_per_shark']==ghazal['amount_per_shark'].max()
```

Out[93]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
88	28	89	Humpy A2	Organic Milk Products	1	75.0	

In [94]:
```
1 ghazal[ghazal['deal_equity']==ghazal['deal_equity'].max()]
```

Out[94]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_e
75	24	76	The Sass Bar	Gifts	1	40.0	

In [95]:
```
1 df.head(5)
```

Out[95]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount
0	1	1	BluePine Industries	Frozen Momos	1	50.0
1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	40.0
2	1	3	Heart up my Sleeves	Detachable Sleeves	1	25.0
3	2	4	Tagz Foods	Healthy Potato Chips	1	70.0
4	2	5	Head and Heart	Brain Development Course	0	50.0

Number of Sharks Teamedup

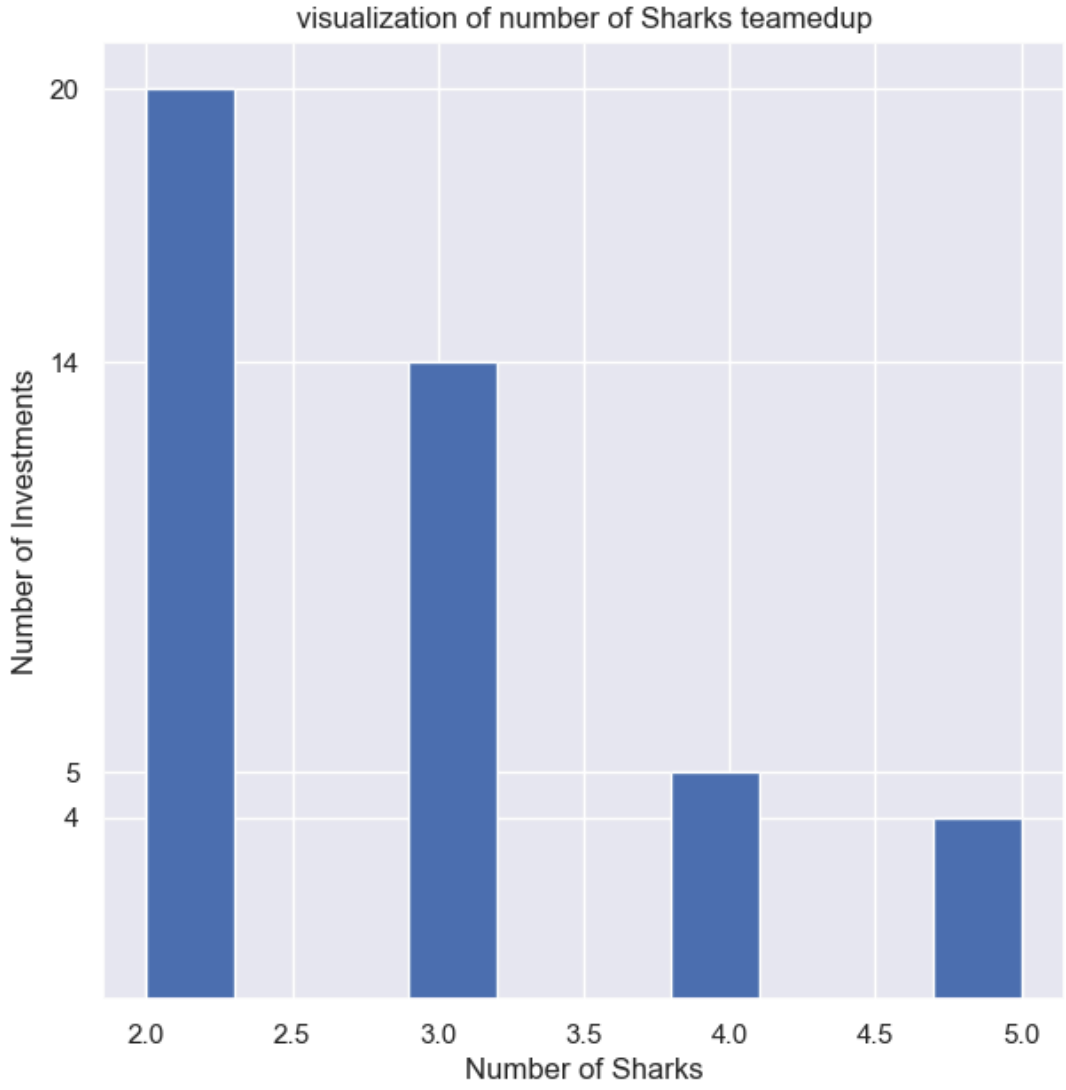
In [96]:
```
1 # Part-1
2 q=df[df['total_sharks_invested']>1]
3
4 q['total_sharks_invested'].value_counts()
```

Out[96]:
```
2    20
3    14
4     5
5     4
Name: total_sharks_invested, dtype: int64
```

In [97]:

```
# Part-2
teamup=df[df['total_sharks_invested']>1]

plt.figure(figsize=(7,7))
plt.hist(teamup.total_sharks_invested)
plt.yticks(q['total_sharks_invested'].value_counts().values)
plt.title('visualization of number of Sharks teamedup')
plt.xlabel('Number of Sharks')
plt.ylabel('Number of Investments');
```

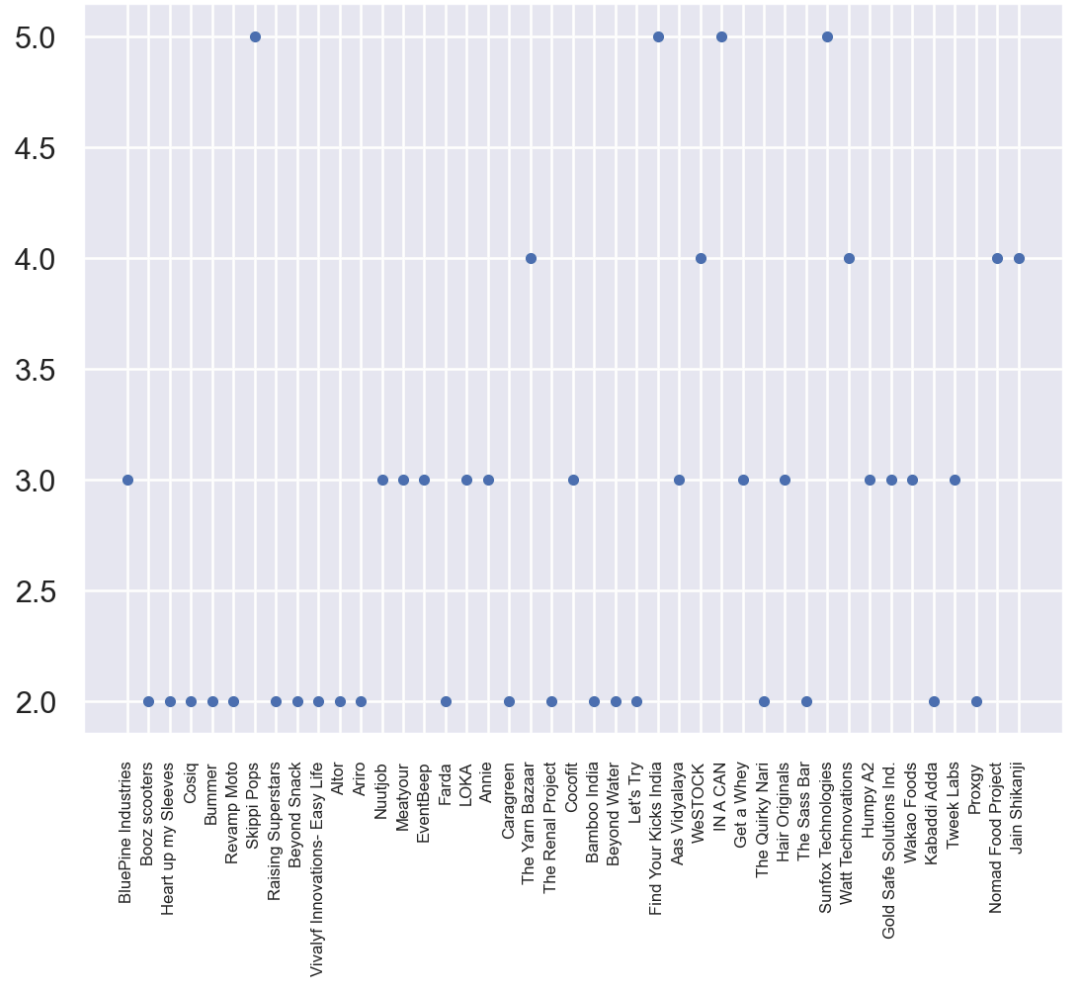


In [98]:

```
# part-4
plt.figure(dpi=200)
plt.scatter(teamup['brand_name'],teamup['total_sharks_invested'],s=

plt.xticks(rotation=90,fontsize=6)

plt.show()
```



In [99]:

```
df.groupby(['ashneer_deal'])['amount_per_shark'].sum()
```

Out[99]:

```
ashneer_deal
0    1627.166936
1     494.333333
Name: amount_per_shark, dtype: float64
```

In [100]:

```
o=[1,2,3,45]
c=0
for i in o:
    c+=i
print(c)
```

```
51
```

In [101]:
```
1 df.episode_number
```

Out[101]:
```
0       1
1       1
2       1
3       2
4       2
       ..
112    34
113    34
114    35
115    35
116    35
Name: episode_number, Length: 117, dtype: int64
```

Total Amount invested by Sharks in Different Companies

In [102]:
```
1 amt
```

Out[102]:
```
130.00025250000002
```

In [103]:
```
1 # df
2 L=[494,887,223]
3 t=ash_grover['amount_per_shark'].sum()
4 t2=aman['amount_per_shark'].sum()
5 print(t)
6 print(t2)
```

```
494.33333333
887.500016693
```

In [104]:

```
1 peyush
```

Out[104]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount
22	8	23	Vivalyf Innovations-Easy Life	Prickless Diabetes Testing Machine	1	56.00000
25	9	26	Ariro	Wooden Toys	1	50.00000
27	10	28	Nuutjob	Male Intimate Hygiene	1	25.00000
28	10	29	Meatyour	Eggs	1	30.00000
29	10	30	EventBeep	Student Community App	1	30.00000
35	12	36	LOKA	Metaverse App	1	40.00000
36	13	37	Annie	Braille Literary Device	1	30.00000
37	13	38	Caragreen	Eco-Friendly boxes	1	50.00000
38	13	39	The Yarn Bazaar	Yarn-Trading App	1	50.00000
43	15	44	PNT	Robotics and Automation Solutions	1	50.00000
49	17	50	Find Your Kicks India	Sneaker Resale	1	50.00000
50	17	51	Aas Vidyalaya	EdTech App	1	150.00000
52	17	53	RoadBounce	Pothole Detection Software and Data	1	80.00000
58	19	59	WeSTOCK	Livestock health monitoring AI	1	50.00000
61	20	62	The State Plate	Delicacies	1	65.00000
63	20	64	IN A CAN	Can Cocktails	1	50.00000
65	21	66	Sid07 Designs	Inventions	1	47.00000
67	22	68	Hair Originals	Natural Hair Extensions	1	60.00000
76	24	77	KG Agrotech	Agricultural Innovations	1	30.00000
79	25	80	Sunfox Technologies	Portable ECG Device	1	100.00000

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount
81	26	82	Isak Fragrances	Perfumes	1	50.00000
85	27	86	Watt Technovations	Ventilated PPE Kits	1	0.00101
87	27	88	Insurance Samadhan	Insurance Solutions	1	100.00000
88	28	89	Humpy A2	Organic Milk Products	1	75.00000
90	28	91	Gold Safe Solutions Ind.	Anti-Suicidal Fan Rod	1	50.00000
108	33	109	Tweek Labs	Sportswear	1	40.00000
109	33	110	Proxgy	VR	1	35.00000

In [105]:
```
# L=[1,2,3,4,5,67,7,8,89,9]
# fo
```

In [106]:
```
print('total amount invested by ashneer',t)
```

```
total amount invested by ashneer 494.33333333
```

Total equity owned by sharks in diffrent Companies

In [107]:
```
o=df[df['peyush_deal']==1]
o['equity_per_shark'].sum()
```

Out[107]:
```
315.84999999999997
```

In [108]:
```
o=df[df['peyush_deal']==1]
o['equity_per_shark'].sum()
```

Out[108]:
```
315.84999999999997
```

In [109]:

```
1 df.head(10)
```

Out[109]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount
0	1	1	BluePine Industries	Frozen Momos	1	50.0
1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	40.0
2	1	3	Heart up my Sleeves	Detachable Sleeves	1	25.0
3	2	4	Tagz Foods	Healthy Potato Chips	1	70.0
4	2	5	Head and Heart	Brain Development Course	0	50.0
5	2	6	Agro tourism	Tourism	0	50.0
6	3	7	Qzense Labs	Food Freshness Detector	0	100.0
7	3	8	Peeschute	Disposable Urine Bag	1	75.0
8	3	9	NOCD	Energy Drink	1	50.0
9	4	10	Cosiq	Intelligent Skincare	1	50.0

In [110]:

```
1 peyush.sort_values(by='equity_per_shark',ascending=False)
```

Out[110]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount
65	21	66	Sid07 Designs	Inventions	1	47.00000
81	26	82	Isak Fragrances	Perfumes	1	50.00000
76	24	77	KG Agrotech	Agricultural Innovations	1	30.00000
43	15	44	PNT	Robotics and Automation Solutions	1	50.00000
52	17	53	RoadBounce	Pothole Detection Software and Data	1	80.00000
22	8	23	Vivalyf Innovations-Easy Life	Prickless Diabetes Testing Machine	1	56.00000
90	28	91	Gold Safe Solutions Ind.	Anti-Suicidal Fan Rod	1	50.00000
37	13	38	Caragreen	Eco-Friendly boxes	1	50.00000
35	12	36	LOKA	Metaverse App	1	40.00000
27	10	28	Nuutjob	Male Intimate Hygiene	1	25.00000
28	10	29	Meatyour	Eggs	1	30.00000
25	9	26	Ariro	Wooden Toys	1	50.00000
88	28	89	Humpy A2	Organic Milk Products	1	75.00000
109	33	110	Proxgy	VR	1	35.00000
50	17	51	Aas Vidyalaya	EdTech App	1	150.00000
49	17	50	Find Your Kicks India	Sneaker Resale	1	50.00000
87	27	88	Insurance Samadhan	Insurance Solutions	1	100.00000
108	33	109	Tweek Labs	Sportswear	1	40.00000
61	20	62	The State Plate	Delicacies	1	65.00000
38	13	39	The Yarn Bazaar	Yarn-Trading App	1	50.00000
58	19	59	WeSTOCK	Livestock health monitoring AI	1	50.00000

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount
63	20	64	IN A CAN	Can Cocktails	1	50.00000
67	22	68	Hair Originals	Natural Hair Extensions	1	60.00000
79	25	80	Sunfox Technologies	Portable ECG Device	1	100.00000
85	27	86	Watt Technovations	Ventilated PPE Kits	1	0.00101
36	13	37	Annie	Braille Literary Device	1	30.00000
29	10	30	EventBeep	Student Community App	1	30.00000

In [111]:
```
1 xyz=df[df['ashneer_deal']==1]
2 xyz['equity_per_shark'].sum()
```

Out[111]: 93.249999999

In [112]:
```
1 df['anupam_deal'].sum()
```

Out[112]: 24

In [113]:
```
1 df.head(2)
```

Out[113]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_
0	1	1	BluePine Industries	Frozen Momos	1	50.0	
1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	40.0	

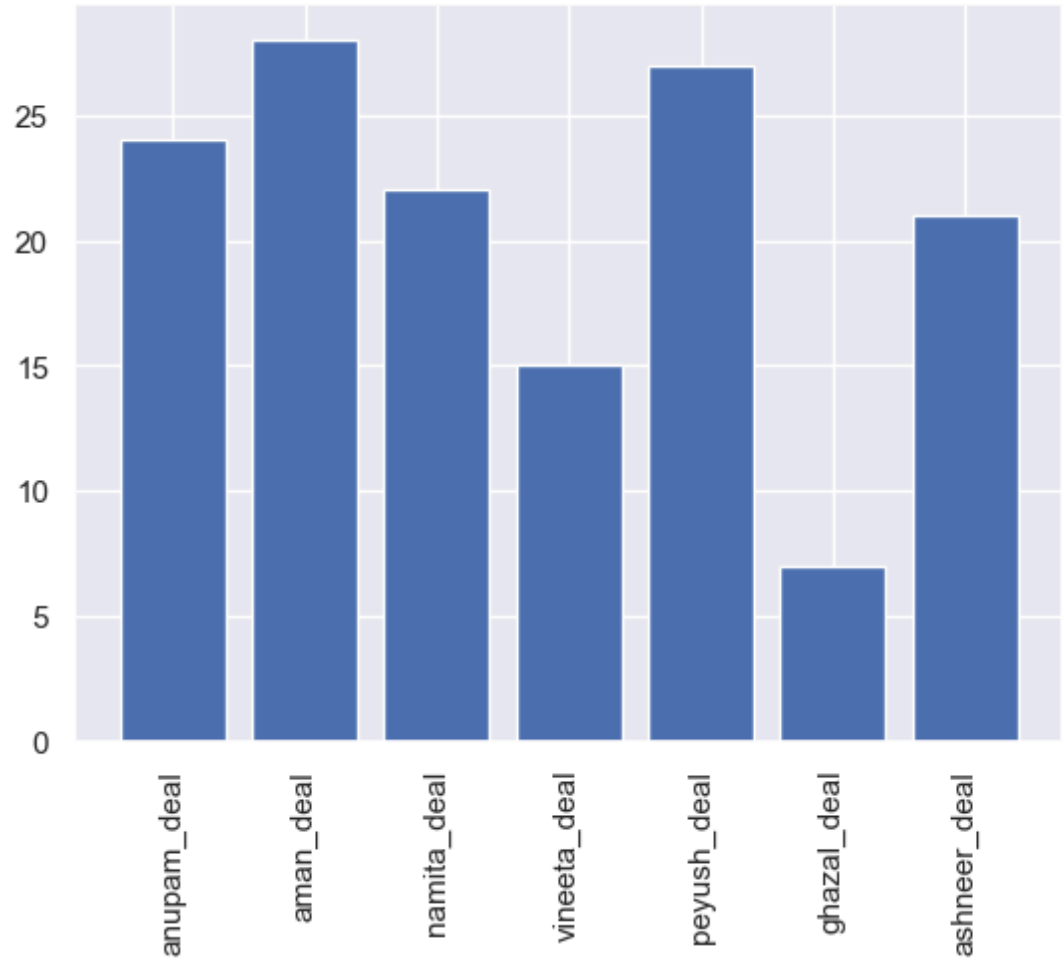
which Shark invested in most companies

In [114]:
```
D=[]
list = ['anupam_deal','aman_deal','namita_deal','vineeta_deal','pey
for i in list:
    deal = df[i].sum()
    D.append(deal)
    print(i,"deals with",deal,"companies" )

```

```
anupam_deal deals with 24 companies
aman_deal deals with 28 companies
namita_deal deals with 22 companies
vineeta_deal deals with 15 companies
peyush_deal deals with 27 companies
ghazal_deal deals with 7 companies
ashneer_deal deals with 21 companies
```

In [115]:
```
plt.bar(list,D)
plt.xticks(rotation=90);
```



In [116]:
```

# len(df[df['anupam_deal']==1])
```

Insights 8: Which Shark present at the time of

In [117]:
```
df.head(1)
```

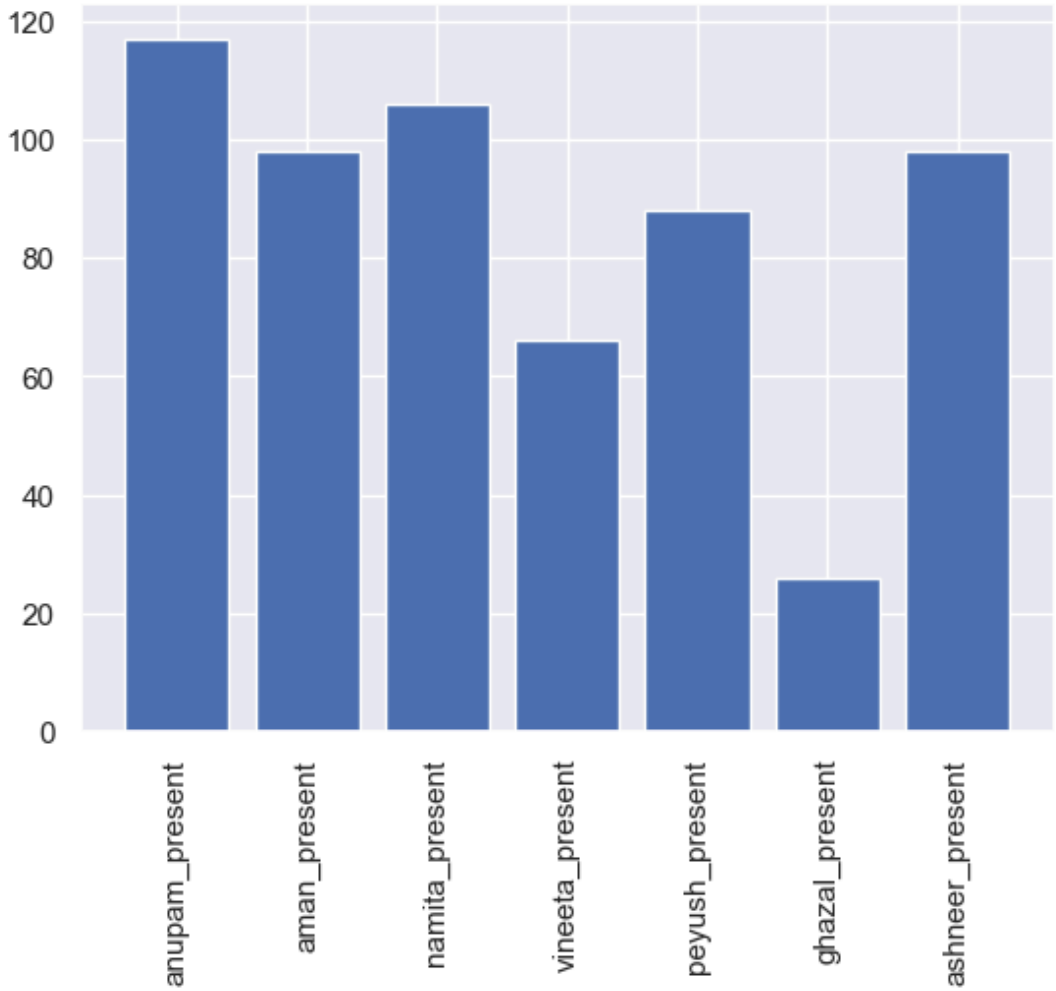
Out[117]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_
0	1	1	BluePine Industries	Frozen Momos	1	50.0	

In [118]:
```
p=[]
list = ['anupam_present','aman_present','namita_present','vineeta_p
for i in list:
    pres = df[i].sum()
    p.append(pres)
    print(i,"present in front of",pres,"companies" )
```

```
anupam_present present in front of 117 companies
aman_present present in front of 98 companies
namita_present present in front of 106 companies
vineeta_present present in front of 66 companies
peyush_present present in front of 88 companies
ghazal_present present in front of 26 companies
ashneer_present present in front of 98 companies
```

In [119]:
```
plt.bar(list,p)
plt.xticks(rotation=90);
```



In [120]:

```
ashneer=(df['ashneer_present'])
anupam=(df['anupam_present'])
aman=(df['aman_present'])
namita=(df['namita_present'])
vineeta=(df['vineeta_present'])
peyush=(df['peyush_present'])
ghazal=(df['ghazal_present'])


xx=pd.DataFrame({'Sharks':['ASHNEER','ANUPAM','AMAN','NAMITA','VINE
                 'Number_of_appearance':[sum(ashneer),sum(anupam),sum(
```

In [121]:

```
sum(ashneer)
```

Out[121]: 98

In [122]:

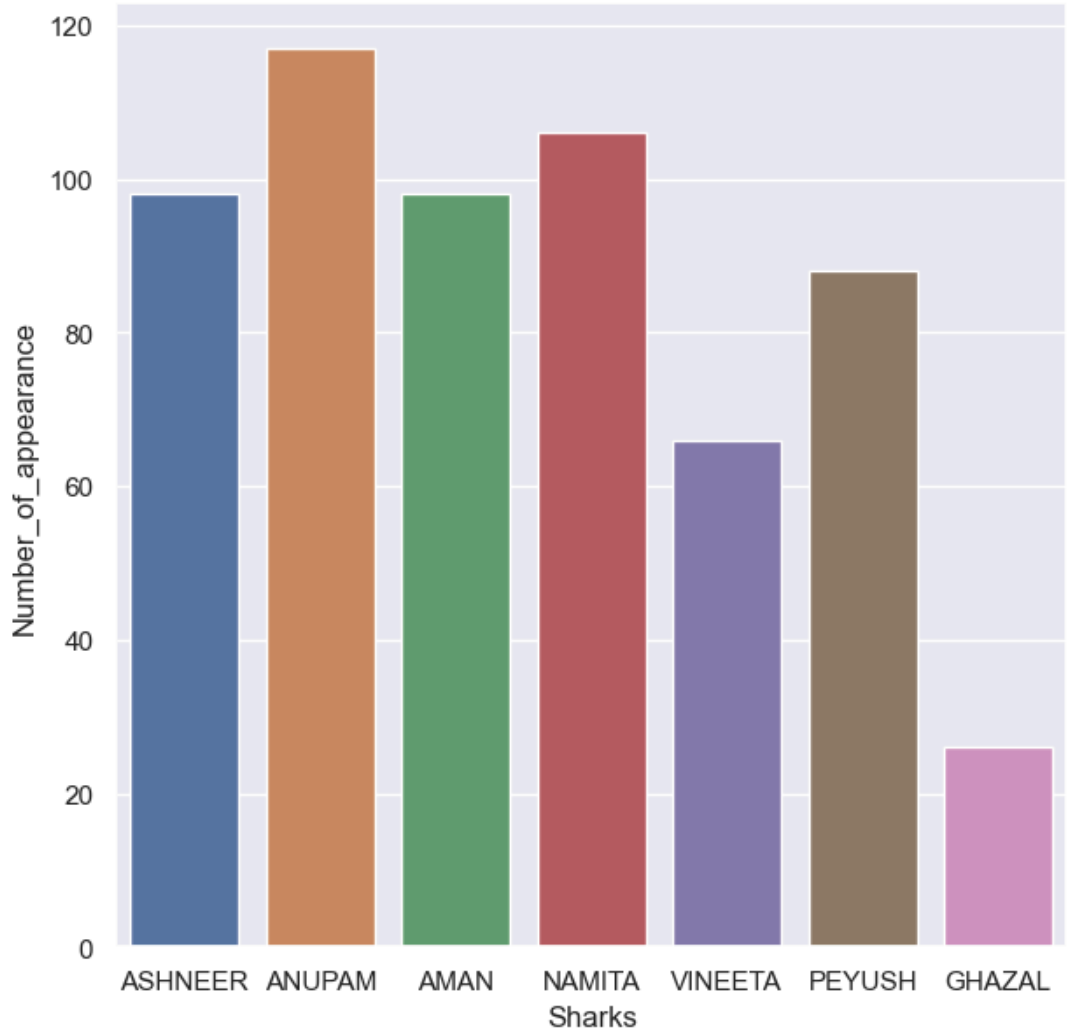
```
xx
```

Out[122]:

	Sharks	Number_of_appearance
0	ASHNEER	98
1	ANUPAM	117
2	AMAN	98
3	NAMITA	106
4	VINEETA	66
5	PEYUSH	88
6	GHAZAL	26

In [123]:

```
1 plt.figure(figsize=(7,7))
2
3 sns.barplot(x='Sharks',y='Number_of_appearance',data=xx);
```



In [124]:

```
1 fig, ax =plt.subplots(figsize =(30, 10))
2 sns.barplot(data = df, y='ask_valuation', x='amount_per_shark',ci=N
3 plt.show()
```