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]:

```
df = pd.read_csv("Shark Tank India Dataset (1).csv")
df
```

Out[4]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
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	
...	...	...	...	...	...	...	
112	34	113	Green Protein	Plant-Based Protein	0	60.0	
113	34	114	On2Cook	Fastest Cooking Device	0	100.0	
114	35	115	Jain Shikanji	Lemonade	1	40.0	
115	35	116	Woloo	Washroom Finder	0	50.0	
116	35	117	Elcare India	Carenting for Elders	0	100.0	

117 rows × 28 columns

In [6]:

```
df.shape
```

Out[6]:

```
(117, 28)
```

In [7]:

```
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 [8]:

```
df.isnull().sum()
```

Out[8]:

```
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 [9]:

```
df.describe()
```

Out[9]:

	episode_number	pitch_number	deal	pitcher_ask_amount	ask_equity	ask_val
count	117.000000	117.000000	117.000000	117.000000	117.000000	117.0
mean	18.735043	59.000000	0.555556	319.854709	5.188034	3852.4
std	10.070778	33.919021	0.499041	2767.842777	3.892121	11931.6
min	1.000000	1.000000	0.000000	0.001010	0.250000	0.0
25%	10.000000	30.000000	0.000000	45.000000	2.500000	666.6
50%	19.000000	59.000000	1.000000	50.000000	5.000000	1250.0
75%	27.000000	88.000000	1.000000	80.000000	7.500000	2857.1
max	35.000000	117.000000	1.000000	30000.000000	25.000000	120000.0

Exploratory Data Analysis (EDA)

How many deals done in the whole season

In [10]:

```
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 [11]:

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

Out[11]:

```
1    65
0    52
Name: deal, dtype: int64
```

In [12]:

```
deal=df['deal'].value_counts().values[0]
no_deal=df['deal'].value_counts().values[1]
print(deal)
print(no_deal)
```

```
65
52
```

In [13]:

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

Out[13]:

```
1    55.555556
0    44.444444
Name: deal, dtype: float64
```

In [14]:

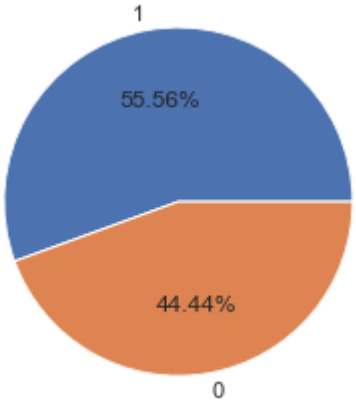
```
v=df['deal'].value_counts().values
i=df['deal'].value_counts().index
v
i
```

Out[14]:

```
Int64Index([1, 0], dtype='int64')
```

In [15]:

```
plt.pie(v,labels=i,autopct='%.2f%%');          #2 deciaml places
```



Deals percentages

Most Dealing Episode

In [16]:

```
best_episodes=df.groupby(['episode_number'])['deal'].sum().sort_values(ascending=False).
best_episodes
# kis episode me sbse zyada deals hui
# max 3 ideas share hote the per episode and 3no ideas me invest krne k liye ready hogye
```

Out[16]:

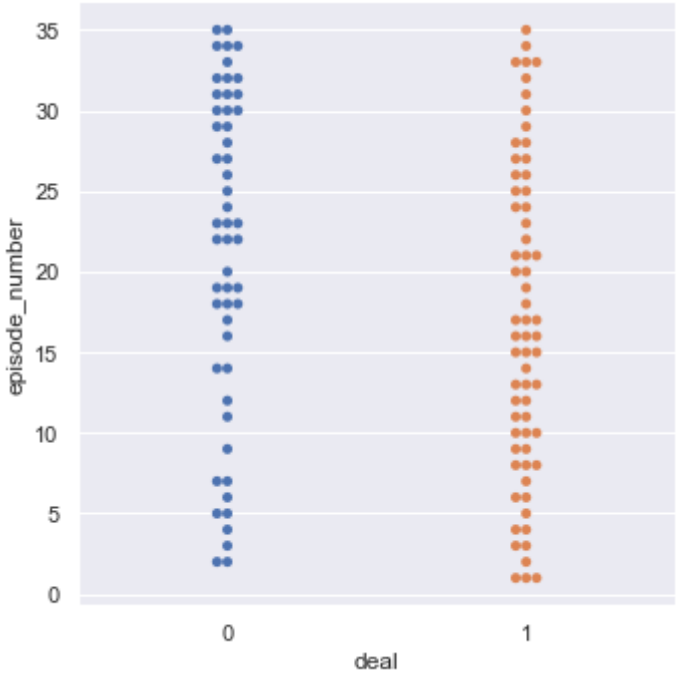
	episode_number	deal
0	1	3
1	15	3
2	21	3
3	33	3
4	8	3
5	10	3
6	17	3
7	16	3
8	13	3
9	25	2
10	24	2
11	28	2
12	20	2
13	26	2
14	27	2
15	12	2
16	11	2
17	9	2
18	6	2
19	4	2
20	3	2
21	31	1
22	30	1
23	29	1
24	34	1
25	32	1
26	18	1
27	23	1
28	22	1
29	19	1
30	2	1
31	14	1
32	7	1
33	5	1
34	35	1

In [17]:

```
sns.catplot(x = 'deal', y = 'episode_number',kind='swarm', data = df)
```

Out[17]:

```
<seaborn.axisgrid.FacetGrid at 0x19f989a7430>
```



Most Expensive dealing Episodes

In [18]:

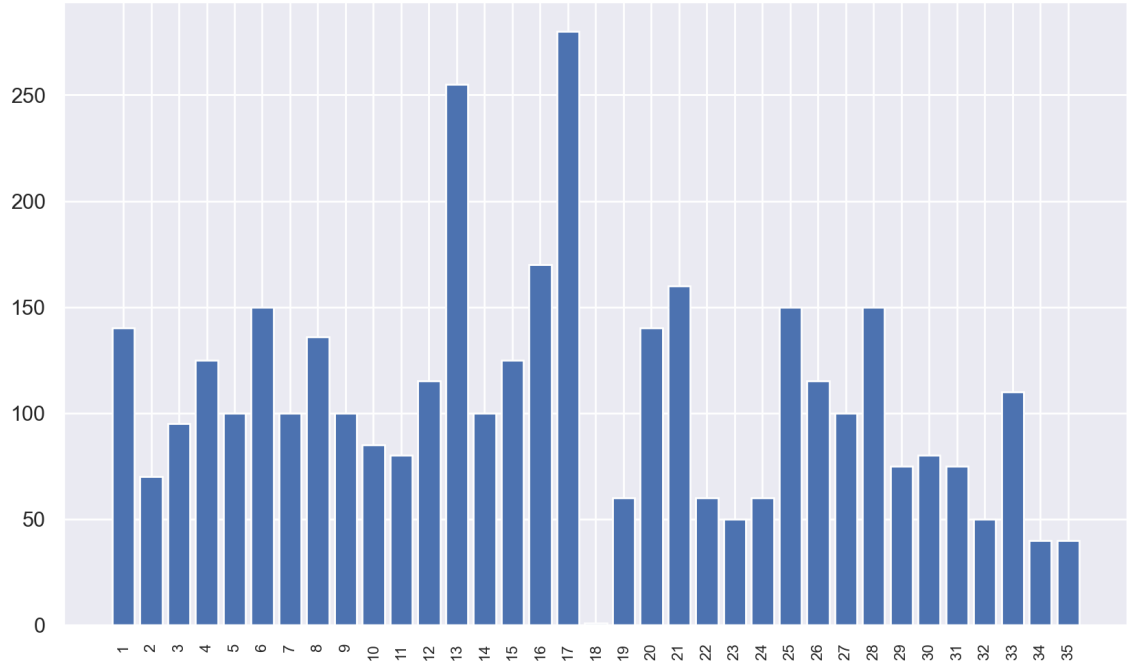
```
A=df.groupby(df['episode_number'])['deal_amount'].sum().sort_values(ascending=False).res
A
```

Out[18]:

	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 [19]:

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



Observation:-

Episode no. 17 was the episode with the most expensive business dealings.

All Sharks invested

In [20]:

```
df[df['total_sharks_invested']==5]
# konse episode me sare sharks ne invest kiya
# ye per day ke hisab se nhi hai whole data pr based hai
```

Out[20]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_ec
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 [21]:

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

Out[21]:

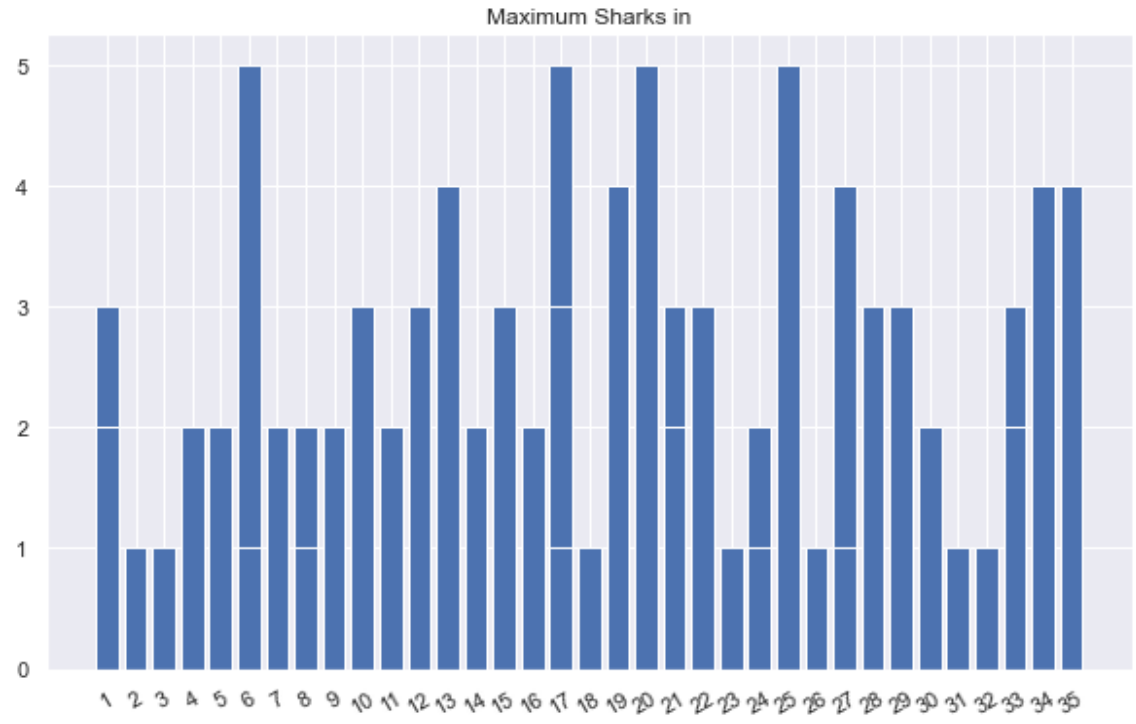
```
0    52
1    22
2    20
3    14
4     5
5     4
Name: total_sharks_invested, dtype: int64
```

Insights

1. There are 4 episodes where all the 5 sharks invested.
2. There are 5 episodes where 4 sharks invested.
3. There are 14 episodes where 3 sharks invested.
4. There are 20 episodes where 2 sharks invested.
5. There are 22 episodes where 1 shark invested.
6. There are 52 episodes where 0 sharks invested.

In [22]:

```
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 [23]:

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

Out[23]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_ec
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	

No Bargain Deal

In [24]:

```
df[df['ask_valuation']==df['deal_valuation']]
```

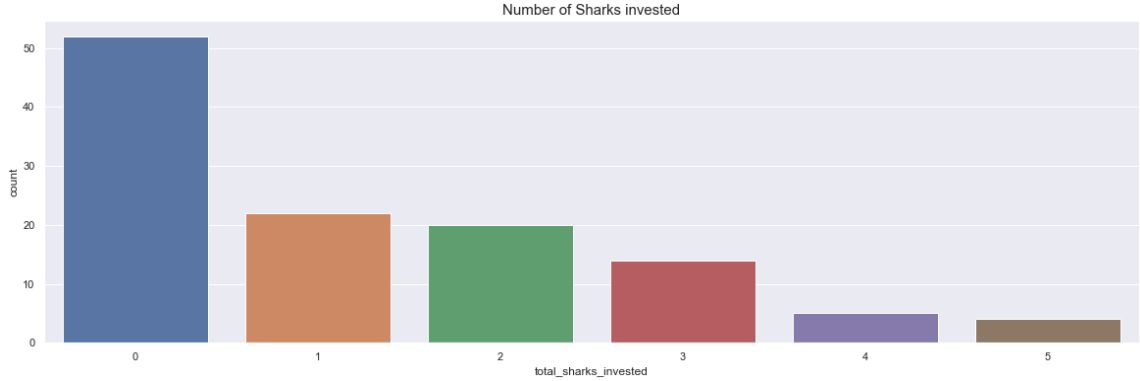
Out[24]:

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

No of Sharks invested with respect to Business

In [25]:

```
plt.figure(figsize =(20, 6))
sns.countplot(x=df['total_sharks_invested'])
plt.title('Number of Sharks invested', fontsize = 15)
plt.show()
```



In [26]:

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

Out[26]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_equit
0	1	1	BluePine Industries	Frozen Momos	1	50.0	5

Created a function that show the Equity and Amount per shark

In [27]:

```
def sharks(data):
    list= ['anupam_deal','aman_deal','namita_deal','vineeta_deal','peyush_deal','ghazal_
    for i in list:
        deal = data[['amount_per_shark','equity_per_shark']][data[i]==1]
        print("\n{} deals with {}".format(len(deal),i[:-5]))
        print(deal)
```

Ashneer Deals

In [92]:

```
ash_grover = df[df['ashneer_deal']==1]
ash_grover
(df['ashneer_deal']==1).value_counts()
```

Out[92]:

```
False    96
True     21
Name: ashneer_deal, dtype: int64
```

In [29]:

```
ash_grover[['amount_per_shark','equity_per_shark']][ash_grover['anupam_deal']==1]
```

Out[29]:

	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 [30]:

```
ash_grover
```

Out[30]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
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	
3	2	4	Tagz Foods	Healthy Potato Chips	1	70.0	
15	6	16	Skippi Pops	Ice-Pops	1	45.0	
18	7	19	Raising Superstars	Child Development App	0	100.0	
21	8	22	Beyond Snack	Kerala Banana Chips	1	50.0	
23	8	24	Motion Breeze	Smart Electric Motorcycle	1	30.0	
29	10	30	EventBeep	Student Community App	1	30.0	
38	13	39	The Yarn Bazaar	Yarn-Trading App	1	50.0	
45	16	46	Bamboo India	Bamboo Products	1	80.0	
49	17	50	Find Your Kicks India	Sneaker Resale	1	50.0	
50	17	51	Aas Vidyalaya	EdTech App	1	150.0	
55	18	56	Otua	Electric Auto Vehicle	1	100.0	
58	19	59	WeSTOCK	Livestock health monitoring AI	1	50.0	
63	20	64	IN A CAN	Can Cocktails	1	50.0	
64	21	65	Get a Whey	Sugar-Free Icecream	1	100.0	
67	22	68	Hair Originals	Natural Hair Extensions	1	60.0	
108	33	109	Tweek Labs	Sportswear	1	40.0	
109	33	110	Proxgy	VR	1	35.0	
110	34	111	Nomad Food Project	Bacon Jams	1	40.0	
114	35	115	Jain Shikanji	Lemonade	1	40.0	

In [31]:

```
sharks(ash_grover)
```

```
8 deals with anupam
     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

11 deals with aman
     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

6 deals with namita
     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

6 deals with vineeta
     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

9 deals with peyush
     amount_per_shark  equity_per_shark
29               10.0          1.000000
38               25.0          2.500000
49               10.0          5.000000
50               50.0          5.000000
58               15.0          2.500000
63               20.0          2.000000
67               20.0          1.333333
108              20.0          3.333333
109               5.0          5.000000

1 deals with ghazal
     amount_per_shark  equity_per_shark
110              10.0               5.0

21 deals with ashneer
```

	amount_per_shark	equity_per_shark
0	25.000000	5.333333
1	20.000000	25.000000
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 [32]:

```
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 [33]:

```
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 [34]:

```
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 [35]:

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

Out[35]:

```
494.33333333
```

In [36]:

```
ash_grover['amount_per_shark'].max()
```

Out[36]:

```
70.0
```

In [37]:

```
# ash_grover[ash_grover['amount_per_shark']==70.0]
```

In [38]:

```
ash_grover.sort_values(by='amount_per_shark',ascending=False).head(1)
```

Out[38]:

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

In [39]:

```
ash_grover['amount_per_shark'].max()
```

Out[39]:

```
70.0
```

In [40]:

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

Out[40]:

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

In [41]:

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

Out[41]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_equi
1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	40.0	15

Anupam Deals

In [42]:

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

Out[42]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
2	1	3	Heart up my Sleeves	Detachable Sleeves	1	25.00000	
9	4	10	Cosiq	Intelligent Skincare	1	50.00000	
12	5	13	Revamp Moto	E-Bike	1	100.00000	
15	6	16	Skippi Pops	Ice-Pops	1	45.00000	
22	8	23	Vivalyf Innovations-Easy Life	Prickless Diabetes Testing Machine	1	56.00000	
28	10	29	Meatyour	Eggs	1	30.00000	
31	11	32	ARRCOAT Surface Textures	Wall Building	1	50.00000	
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	
44	15	45	Cocofit	Coconut based beverage franchise	1	5.00000	
45	16	46	Bamboo India	Bamboo Products	1	80.00000	
48	16	49	Let's Try	Healthy Snacks	1	45.00000	
49	17	50	Find Your Kicks India	Sneaker Resale	1	50.00000	
63	20	64	IN A CAN	Can Cocktails	1	50.00000	
66	21	67	The Quirky Nari	Customised Apparels	1	35.00000	
67	22	68	Hair Originals	Natural Hair Extensions	1	60.00000	
75	24	76	The Sass Bar	Gifts	1	40.00000	
78	25	79	PawsIndia	Dog Products	1	50.00000	
79	25	80	Sunfox Technologies	Portable ECG Device	1	100.00000	
85	27	86	Watt Technovations	Ventilated PPE Kits	1	0.00101	

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
108	33	109	Tweek Labs	Sportswear	1	40.00000	
114	35	115	Jain Shikanji	Lemonade	1	40.00000	

In [43]:

```
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 [44]:

```
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 [45]:

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

Out[45]:

```
533.83360253
```

In [46]:

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

Out[46]:

```
166.35
```

In [47]:

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

Out[47]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_eq
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 [48]:

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

Out[48]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_equity
75	24	76	The Sass Bar	Gifts	1	40.0	8.0

Aman Deals

In [49]:

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

Out[49]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
0	1	1	BluePine Industries	Frozen Momos	1	50.0	
7	3	8	Peeschute	Disposable Urine Bag	1	75.0	
11	4	12	Bummer	Underwear	1	75.0	
12	5	13	Revamp Moto	E-Bike	1	100.0	
15	6	16	Skippi Pops	Ice-Pops	1	45.0	
18	7	19	Raising Superstars	Child Development App	0	100.0	
21	8	22	Beyond Snack	Kerala Banana Chips	1	50.0	
24	9	25	Altor	Smart Helmets	1	50.0	
25	9	26	Ariro	Wooden Toys	1	50.0	
27	10	28	Nuutjob	Male Intimate Hygiene	1	25.0	
28	10	29	Meatyour	Eggs	1	30.0	
29	10	30	EventBeep	Student Community App	1	30.0	
32	11	33	Farda	Customised Streetwear	1	30.0	
35	12	36	LOKA	Metaverse App	1	40.0	
38	13	39	The Yarn Bazaar	Yarn-Trading App	1	50.0	
39	14	40	The Renal Project	Home Dialysis Treatment	1	100.0	
42	15	43	Hammer Lifestyle	Smart Audio Products	1	30.0	
44	15	45	Cocofit	Coconut based beverage franchise	1	5.0	
47	16	48	Beyond Water	Liquid Water Enhancer	1	75.0	
48	16	49	Let's Try	Healthy Snacks	1	45.0	
49	17	50	Find Your Kicks India	Sneaker Resale	1	50.0	
58	19	59	WeSTOCK	Livestock health monitoring AI	1	50.0	

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
63	20	64	IN A CAN	Can Cocktails	1	50.0	
64	21	65	Get a Whey	Sugar-Free Icecream	1	100.0	
71	23	72	Namhya Foods	Ayurvedic Enriched Food	1	100.0	
100	31	101	AyuRythm	Ayurvedic Wellness App	1	75.0	
104	32	105	GrowFitter	Rewards App	1	50.0	
114	35	115	Jain Shikanji	Lemonade	1	40.0	

In [50]:

```
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 [51]:

```
eqt = df.groupby('aman_deal')['equity_per_shark'].sum()[1]
amt = df.groupby('aman_deal')['amount_per_shark'].sum()[1]
print("Total equity buy on shark tank by Aman",eqt,'%')
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 [52]:

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

Out[52]:

```
887.500016693
```

In [53]:

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

Out[53]:

```
160.263333334
```

In [54]:

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

Out[54]:

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

In [55]:

```
aman[aman['deal_equity']==aman['deal_equity'].max()]
```

Out[55]:

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

Namita Deals

In [56]:

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

Out[56]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
11	4	12	Bummer	Underwear	1	75.00000	
15	6	16	Skippi Pops	Ice-Pops	1	45.00000	
16	6	17	Menstrupedia	Menstrual Awareness Comic	1	50.00000	
24	9	25	Altor	Smart Helmets	1	50.00000	
27	10	28	Nuutjob	Male Intimate Hygiene	1	25.00000	
32	11	33	Farda	Customised Streetwear	1	30.00000	
33	12	34	Auli Lifestyle	Ayurvedic Products	1	75.00000	
36	13	37	Annie	Braille Literary Device	1	30.00000	
39	14	40	The Renal Project	Home Dialysis Treatment	1	100.00000	
44	15	45	Cocofit	Coconut based beverage franchise	1	5.00000	
47	16	48	Beyond Water	Liquid Water Enhancer	1	75.00000	
49	17	50	Find Your Kicks India	Sneaker Resale	1	50.00000	
50	17	51	Aas Vidyalaya	EdTech App	1	150.00000	
58	19	59	WeSTOCK	Livestock health monitoring AI	1	50.00000	
63	20	64	IN A CAN	Can Cocktails	1	50.00000	
79	25	80	Sunfox Technologies	Portable ECG Device	1	100.00000	
83	26	84	Rare Planet	Handicrafts	1	65.00000	
85	27	86	Watt Technovations	Ventilated PPE Kits	1	0.00101	
91	29	92	Wakao Foods	Jackfruit Products	1	75.00000	
95	30	96	Kabaddi Adda	All-Kabaddi App	1	80.00000	
106	33	107	Colour Me Mad	Insoles	1	40.00000	

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
110	34	111	Nomad Food Project	Bacon Jams	1	40.00000	

In [57]:

```
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 [58]:

```
eqt = df.groupby('namita_deal')['equity_per_shark'].sum().loc[1]
amt = df.groupby('namita_deal')['amount_per_shark'].sum().loc[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 [59]:

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

Out[59]:

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

In [60]:

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

Out[60]:

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

Vineeta Deals

In [61]:

```
vineeta = df[df['vineeta_deal']==1]
vineeta
```

Out[61]:

	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	
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 [62]:

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

Out[62]:

```
328.3333333300001
```

In [63]:

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

Out[63]:

```
131.533333333
```

In [64]:

```
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 [65]:

```
eqt = df.groupby('vineeta_deal')['equity_per_shark'].sum().loc[1]
amt = df.groupby('vineeta_deal')['amount_per_shark'].sum().loc[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 [66]:

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

Out[66]:

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

In [67]:

```
vineeta[vineeta['deal_equity']==vineeta['deal_equity'].max()]
```

Out[67]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_equi
1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	40.0	15

Peyush Deals

In [68]:

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

Out[68]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
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	

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	as
79	25	80	Sunfox Technologies	Portable ECG Device	1	100.00000	
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 [69]:

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

Out[69]:

```
719.6669191630001
```

In [70]:

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

Out[70]:

```
315.84999999999997
```

In [71]:

```
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
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

8 deals with namita
    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

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

27 deals with peyush
     amount_per_shark  equity_per_shark
22          28.000000         16.650000
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
36          35.000000          1.000000
37          25.000000         10.000000
38          25.000000          2.500000
43          25.000000         25.000000
49          10.000000          5.000000
50          50.000000          5.000000
52          80.000000         20.000000
58          15.000000          2.500000
```

```
61          40.000000          3.000000
63          20.000000          2.000000
65          25.000000         75.000000
67          20.000000          1.333333
76          10.000000         40.000000
79          20.000000          1.200000
81          50.000000         50.000000
85           0.000253          1.000000
87         100.000000          4.000000
88          33.333333          5.000000
90          16.666667         10.000000
108         20.000000          3.333333
109          5.000000          5.000000

4 deals with ghazal
    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

9 deals with ashneer
     amount_per_shark  equity_per_shark
29               10.0          1.000000
38               25.0          2.500000
49               10.0          5.000000
50               50.0          5.000000
58               15.0          2.500000
63               20.0          2.000000
67               20.0          1.333333
108              20.0          3.333333
109               5.0          5.000000
```

In [72]:

```
eqt = df.groupby('peyush_deal')['equity_per_shark'].sum().loc[1]
amt = df.groupby('peyush_deal')['amount_per_shark'].sum().loc[1]
print("Total equity buy on shark tank by peyush",eqt,'%')
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 [73]:

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

Out[73]:

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

In [74]:

```
peyush[peyush['deal_equity']==peyush['deal_equity'].max()]
```

Out[74]:

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

Ghazal Deals

In [75]:

```
ghazal=df[df['ghazal_deal']==1]
ghazal
```

Out[75]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_
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 [76]:

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

Out[76]:

```
130.0002525
```

In [77]:

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

Out[77]:

```
46.7
```

In [78]:

```
sharks(ghazal)
```

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

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

4 deals with namita
     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

5 deals with vineeta
     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

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 [79]:

```
eqt = df.groupby('ghazal_deal')['equity_per_shark'].sum().loc[1]
amt = df.groupby('ghazal_deal')['amount_per_shark'].sum().loc[1]
print("Total equity buy on shark tank by ghazal",eqt,'%')
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 [80]:

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

Out[80]:

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

In [81]:

```
ghazal[ghazal['deal_equity']==ghazal['deal_equity'].max()]
```

Out[81]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_equity
75	24	76	The Sass Bar	Gifts	1	40.0	8.0

Number of Sharks Teamedup

In [82]:

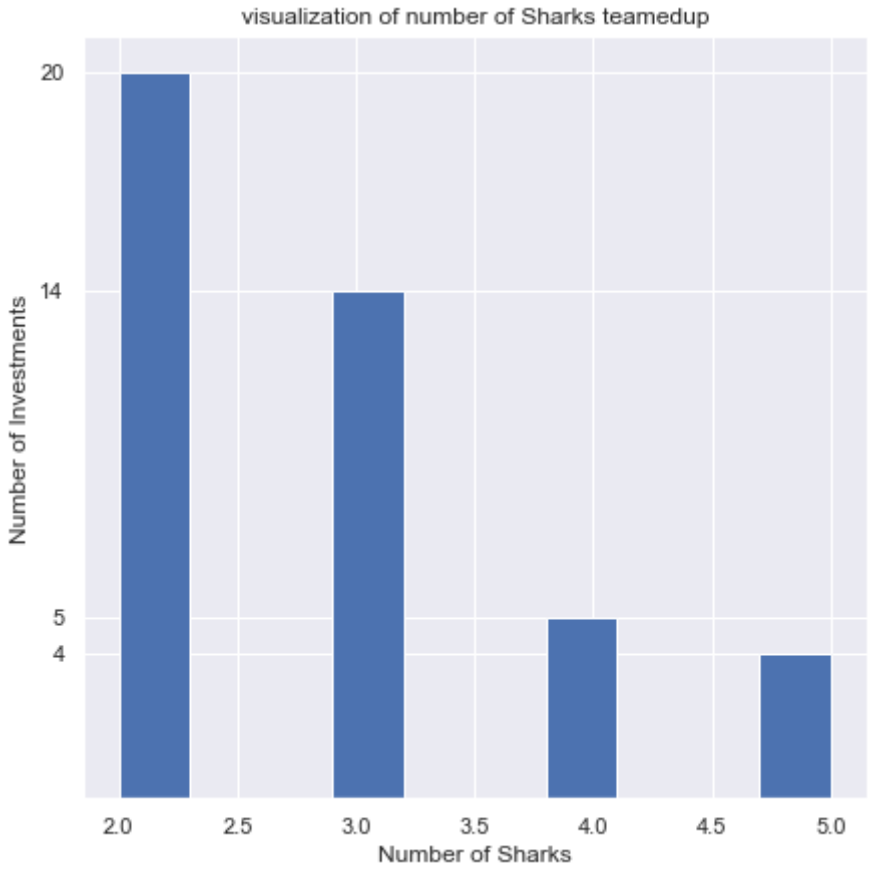
```
# Part-1 # more than 1
q=df[df['total_sharks_invested']>1]

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

Out[82]:

```
2    20
3    14
4     5
5     4
Name: total_sharks_invested, dtype: int64
```

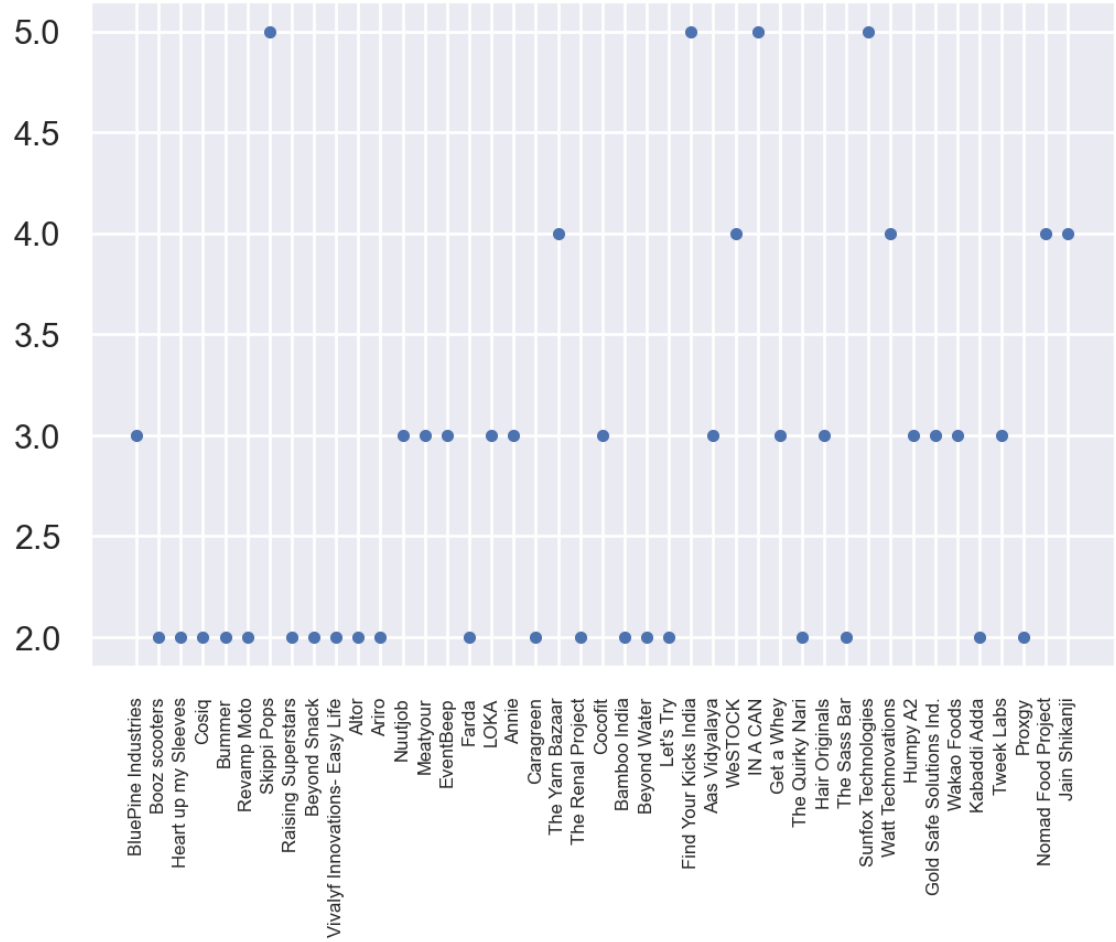
In [83]:

```
# Part-2  # showing in pairs
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 [84]:

```
# part-4
plt.figure(dpi=200)
plt.scatter(teamup['brand_name'],teamup['total_sharks_invested'],s=9);

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

plt.show()
```



In [85]:

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

Out[85]:

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

In [86]:

```
df.episode_number
```

Out[86]:

```
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
```

Which Shark invested in most companies

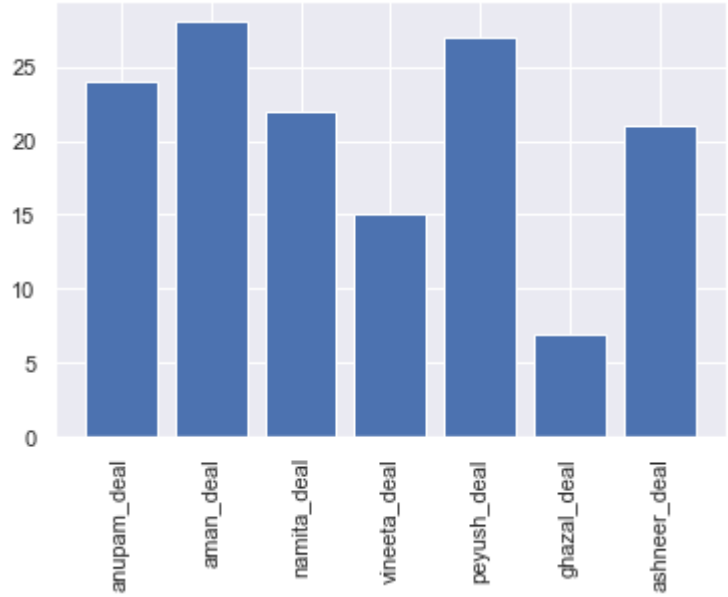
In [87]:

```
D=[]
list = ['anupam_deal','aman_deal','namita_deal','vineeta_deal','peyush_deal','ghazal_dea
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 [88]:

```
plt.bar(list,D)
plt.xticks(rotation=90);
```



Which Shark present at the time of Company

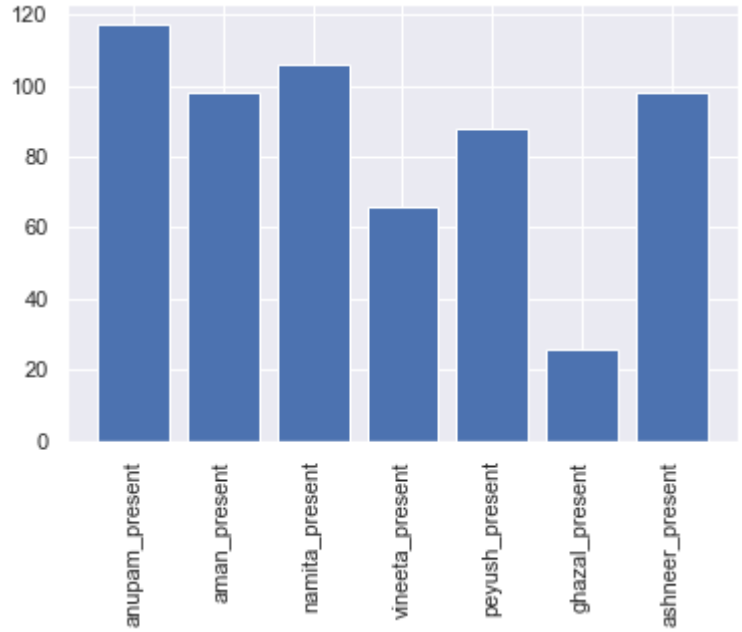
In [89]:

```
p=[]
list = ['anupam_present','aman_present','namita_present','vineeta_present','peyush_prese
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 [90]:

```
plt.bar(list,p)
plt.xticks(rotation=90);
```



Overall Insight

Peyush deals with 27 companies and where he invested 719.666lakhs and 315.85% of the equity he bought. He was the most profitable shark on the show.