

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 [6]: 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

```
df=pd.read_csv("Shark Tank India Dataset.csv")
In [8]:
        df.head(3)
            episode_number pitch_number brand_name
                                                                 idea deal pitcher_ask_ar
Out[8]:
                                                  BluePine
                                                               Frozen
         0
                                          1
                                                                          1
                                                 Industries
                                                               Momos
                                                            Renting e-
                                                              bike for
                                                     Booz
         1
                           1
                                          2
                                                            mobility in
                                                                          1
                                                  scooters
                                                               private
                                                               spaces
                                              Heart up my Detachable
                                          3
         2
                           1
                                                                          1
                                                  Sleeves
                                                              Sleeves
        # No. of succesfull deals & unsuccefull
In [7]:
         # Most Dealinh Empsidoes
        # Most Expensive dealing epsiode
In [8]:
         (75/16)*100
Out[8]: 468.75
In [9]:
        df.shape
```

Out[9]: (117, 28)

In [10]: df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 117 entries, 0 to 116
Data columns (total 28 columns):

Data Cotumns (total 28 Cotumns):	
	type
	nt64
· –	nt64
	bject
	bject
	nt64
• = =	loat64
_ ' '	loat64
7 ask_valuation 117 non-null f	loat64
8 deal_amount 117 non-null f	loat64
9 deal_equity 117 non-null f	loat64
10 deal_valuation 117 non-null f	loat64
11 ashneer_present 117 non-null i	nt64
12 anupam_present 117 non-null i	nt64
13 aman_present 117 non-null i	nt64
14 namita_present 117 non-null i	nt64
15 vineeta_present 117 non-null i	nt64
16 peyush_present 117 non-null i	nt64
17 ghazal_present 117 non-null i	nt64
18 ashneer_deal 117 non-null i	nt64
19 anupam_deal 117 non-null i	nt64
20 aman_deal 117 non-null i	nt64
21 namita_deal 117 non-null i	nt64
22 vineeta_deal 117 non-null i	nt64
23 peyush_deal 117 non-null in	nt64
24 ghazal_deal 117 non-null i	nt64
25 total_sharks_invested 117 non-null in	nt64
26 amount_per_shark 117 non-null f	loat64
27 equity_per_shark 117 non-null f	loat64
dtypes: float64(8), int64(18), object(2)	
memory usage: 25.7+ KB	

In [11]: df.isnull().sum()

Out[11]:	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 [12]: df.shape

Out[12]: (117, 28)

In [13]: df.describe()

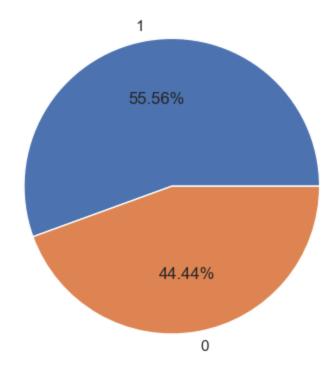
Out[13]: episode_number pitch_number deal pitcher_ask_amount ask_equ

	•	_	•	_		•		- •
count		117.000000		117.000000	117.000000		117.000000	117.000
mean		18.735043		59.000000	0.55556		319.854709	5.1880
std		10.070778		33.919021	0.499041		2767.842777	3.892
min		1.000000		1.000000	0.000000		0.001010	0.250
25%		10.000000		30.000000	0.000000		45.000000	2.500
50 %		19.000000		59.000000	1.000000		50.000000	5.000
75 %		27.000000		88.000000	1.000000		80.000000	7.500
max		35.000000		117.000000	1.000000		30000.000000	25.000

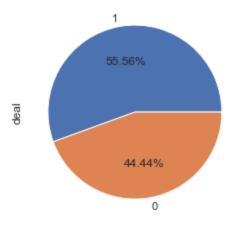
Exploratory Data Analysis (EDA)

How many deals done in the whole season

```
In [16]: 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
         deal=df['deal'].value counts().values[0]
In [17]:
         no_deal=df['deal'].value_counts().values[1]
In [12]: df['deal'].value_counts().index
Out[12]: Index([1, 0], dtype='int64', name='deal')
In [ ]:
In [10]: df['deal'].value_counts(normalize=True)
Out[10]: deal
              0.555556
         1
              0.444444
         Name: proportion, dtype: float64
In [14]:
         v=df['deal'].value counts().values
         i=df['deal'].value counts().index
In [19]:
         plt.pie(v,labels=i,autopct='%.2f%%');
```



```
In [ ]: print('hello')
In [16]: df['deal'].value counts().values[0]
Out[16]: 65
In [17]: df['deal'].value counts(normalize=True)*100
Out[17]: 1
              55.55556
              44.44444
         Name: deal, dtype: float64
In [22]: 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 [15]: df['deal'].value_counts().plot(autopct='%.2f%',kind='pie')
Out[15]: <AxesSubplot:ylabel='deal'>
```



Deals percentages

Most Dealing Episode

```
In [21]: best_episodes=df.groupby(['episode_number'])['deal'].sum().sort_values(ascendi
best_episodes
```

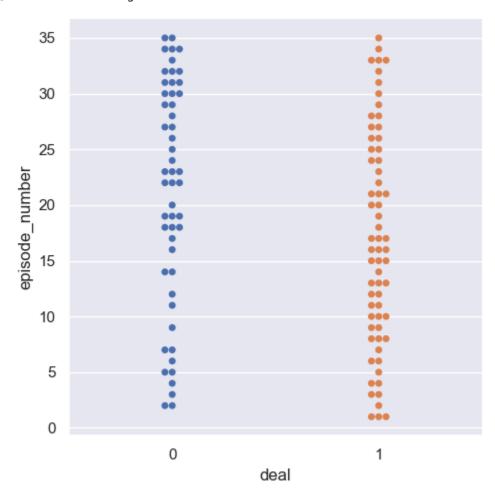
Out[21]:	episode_number	deal
0	1	3
1	. 15	3
2	21	3
3	33	3
4	8	3
5	10	3
6	17	3
7	16	3
8	13	3
9	25	2
10	24	2
11	. 28	2
12	20	2
13	26	2
14	27	2
15	12	2
16	11	2
17	9	2
18	6	2
19	4	2
20	3	2
21	. 31	1
22	30	1
23	29	1
24	34	1
25	32	1
26	18	1
27	23	1

episode_number deal

31	14	1
32	7	1
33	5	1
34	35	1

```
In [15]: sns.set(style='darkgrid')
In [11]: df['episode_number'].value_counts()
Out[11]: 18
                4
                4
          30
          17
                4
          16
                4
          22
                4
          23
                4
          27
                4
          31
                4
          32
                4
          33
                4
          34
                4
          19
                4
                3
          29
          28
                3
          20
                3
                3
          26
                3
          25
          24
                3
          21
                3
          1
                3
                3
          2
                3
          15
                3
          14
          13
                3
          12
                3
          11
                3
          10
                3
                3
          9
                3
          8
                3
          7
          6
                3
                3
          5
                3
          4
          3
                3
          Name: episode_number, dtype: int64
In [16]: sns.catplot(x = 'deal', y = 'episode_number', kind='swarm', hue='deal', data = d
```

Out[16]: <seaborn.axisgrid.FacetGrid at 0x285b665f280>



Most Expensive dealing Episodes

```
In [17]: A=df.groupby(df['episode_number'])['deal_amount'].sum().sort_values(ascending=
A
```

Out[17]:		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

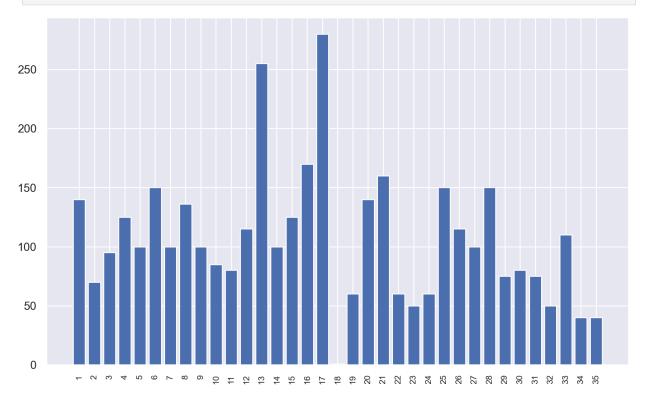
60.00000

50.00000

episode_number deal_amount

31	32	50.00000
32	34	40.00000
33	35	40.00000
34	18	1.00000

```
In [20]: 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 [26]: df[df['total_sharks_invested']==5]
```

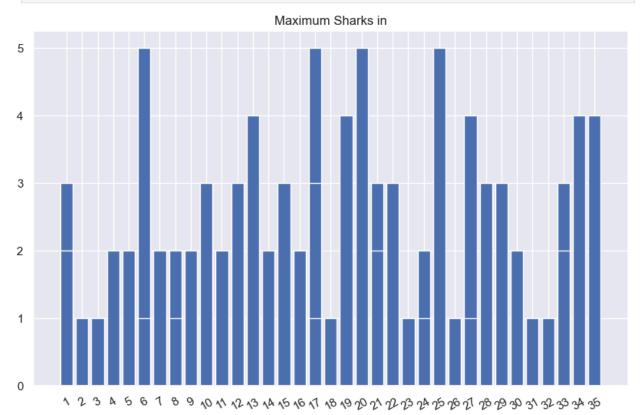
Out[26]:		episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_am
	15	6	16	Skippi Pops	Ice-Pops	1	
	49	17	50	Find Your Kicks India	Sneaker Resale	1	
	63	20	64	IN A CAN	Can Cocktails	1	
	79	25	80	Sunfox Technologies	Portable ECG Device	1	

```
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 [29]: 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);
```

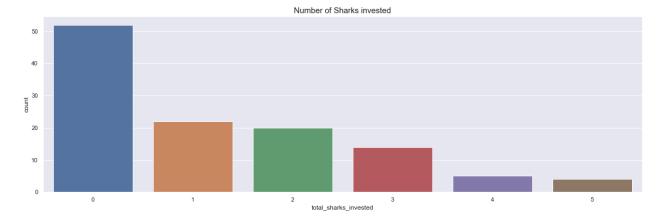


```
df[df['total sharks invested']==5]
In [19]:
              episode number pitch number
                                                brand name
                                                                   idea
                                                                         deal pitcher_ask_am
Out[19]:
          15
                              6
                                             16
                                                   Skippi Pops
                                                                Ice-Pops
                                                                            1
                                                     Find Your
                                                                Sneaker
          49
                                                                            1
                             17
                                             50
                                                    Kicks India
                                                                 Resale
                                                                    Can
          63
                             20
                                             64
                                                     IN A CAN
                                                                            1
                                                               Cocktails
                                                                Portable
                                                       Sunfox
          79
                             25
                                            80
                                                                   ECG
                                                                            1
                                                  Technologies
                                                                 Device
In [ ]:
          df.columns
```

No Bargain Deal

No of Sharks invested with respect to Business

```
df['total_sharks_invested'].value_counts()
Out[32]: 0
               52
         1
               22
         2
               20
         3
               14
         4
                5
         5
         Name: total sharks invested, dtype: int64
         plt.figure(figsize =(20, 6))
In [21]:
         sns.countplot(x=df['total_sharks_invested'])
         plt.title('Number of Sharks invested', fontsize = 15)
         plt.show()
```



Created a function that show the Equity and Amount per shark

```
In [6]:
    def sharks(data):
        list= ['anupam_deal', 'aman_deal', 'namita_deal', 'vineeta_deal', 'peyush_deal
        for i in list:
            deal = data[['amount_per_shark', 'equity_per_shark']][data[i]==1]
            print("{} deals with {}".format(len(deal),i[:-5]))
            print('\n',len(deal), 'deals with',i[:-5])
            print(deal)

In [27]: a=df[(df['ashneer_deal']==1) & (df['anupam_deal']==1)]
            len(a[['amount_per_shark','equity_per_shark']])

Out[27]: 8

In [29]: a[['amount_per_shark','equity_per_shark']]
```

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 [32]:		df['ashneer_deal']=	_

In [23]: ash_grover[['amount_per_shark','equity_per_shark']][ash_grover['anupam_deal']=

Out[23]:	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 [16]: ash_grover[['amount_per_shark','equity_per_shark']][ash_grover['anupam_deal']=

Out[16]:		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 []: ash_grover

Ashneer Deals

```
In [13]: ash_grover = df[df['ashneer_deal']==1]
    ash_grover
```

Out[13]:		episode_number	pitch_number	brand_name	idea	deal	pitcher_as
_	0	1	1	BluePine Industries	Frozen Momos	1	
	1	1	2	Booz scooters	Renting e- bike for mobility in private spaces	1	
	3	2	4	Tagz Foods	Healthy Potato Chips	1	
	15	6	16	Skippi Pops	Ice-Pops	1	
	18	7	19	Raising Superstars	Child Development App	0	
	21	8	22	Beyond Snack	Kerala Banana Chips	1	
	23	8	24	Motion Breeze	Smart Electric Motorcycle	1	
	29	10	30	EventBeep	Student Community App	1	
	38	13	39	The Yarn Bazaar	Yarn-Trading App	1	
	45	16	46	Bamboo India	Bamboo Products	1	
	49	17	50	Find Your Kicks India	Sneaker Resale	1	
	50	17	51	Aas Vidyalaya	EdTech App	1	
	55	18	56	Otua	Electric Auto Vehicle	1	
	58	19	59	WeSTOCK	Livestock health monitoring Al	1	
	63	20	64	IN A CAN	Can Cocktails	1	
	64	21	65	Get a Whey	Sugar-Free Icecream	1	
	67	22	68	Hair Originals	Natural Hair Extensions	1	

	episode_number	pitch_number	brand_name	idea	deal	pitcher_as
108	33	109	Tweek Labs	Sportswear	1	
109	33	110	Proxgy	VR	1	
110	34	111	Nomad Food Project	Bacon Jams	1	
114	35	115	Jain Shikanji	Lemonade	1	

In [37]: sharks(ash_grover)

```
8 deals with anupam
                        equity_per_shark
     amount 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
                                 7.500000
             10.000000
6 deals with namita
     amount per shark
                        equity_per_shark
15
                  20.0
                                       3.0
49
                  10.0
                                       5.0
50
                                       5.0
                  50.0
58
                                       2.5
                  15.0
63
                  20.0
                                       2.0
110
                  10.0
                                       5.0
 6 deals with vineeta
     amount_per shark
                         equity_per_shark
             25.000000
0
                                 5.333333
1
             20.000000
                                25.000000
15
             20.000000
                                 3,000000
64
             33.33333
                                 5.000000
110
                                 5.000000
             10.000000
114
             10.000000
                                 7.500000
 9 deals with peyush
     amount_per_shark
                        equity per shark
29
                  10.0
                                 1.000000
                  25.0
38
                                 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
                   5.0
109
                                 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
             10.000000
29
                                 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
             33.33333
                                 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 [38]: df

Out[38]:		episode_number	pitch_number	brand_name	idea	deal	pitcher_as
	0	1	1	BluePine Industries	Frozen Momos	1	
	1	1	2	Booz scooters	Renting e- bike for mobility in private spaces	1	
	2	1	3	Heart up my Sleeves	Detachable Sleeves	1	
	3	2	4	Tagz Foods	Healthy Potato Chips	1	
	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	
	114	35	115	Jain Shikanji	Lemonade	1	
	115	35	116	Woloo	Washroom Finder	0	
	116	35	117	Elcare India	Carenting for Elders	0	

117 rows \times 28 columns

```
In [21]: 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 [15]: 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]: ash_grover[ash_grover['equity_per_shark']==ash_grover['equity_per_shark'].max(
```

```
episode number pitch number brand name
Out[34]:
                                                             idea deal pitcher ask amou
                                                           Renting
                                                            e-bike
                                                               for
                                                     Booz
                                          2
         1
                           1
                                                           mobility
                                                                      1
                                                                                         4
                                                  scooters
                                                                in
                                                            private
                                                            spaces
In [ ]:
In [ ]:
In [40]:
         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 [34]: ash grover['amount per shark'].sum()
Out[34]: 494.33333333
In [78]: ash grover['amount per shark'].max()
Out[78]: 70.0
In [16]:
         # ash grover[ash grover['amount per shark']==70.0]
            episode number pitch number brand name
                                                             idea
                                                                   deal pitcher ask amou
Out[16]:
                                                           Healthy
         3
                           2
                                                                                         7(
                                          4
                                                Tagz Foods
                                                            Potato
                                                                      1
                                                             Chips
         1 \text{ rows} \times 28 \text{ columns}
         ash_grover.sort_values(by='amount_per_shark',ascending=False).head(1)
In [24]:
            episode_number pitch_number brand_name
                                                             idea deal pitcher_ask_amou
Out[24]:
                                                           Healthy
         3
                           2
                                          4
                                                Tagz Foods
                                                            Potato
                                                                      1
                                                                                         7(
                                                             Chips
         ash grover['amount per shark'].max()
Out[25]: 70.0
```

In [46]:	ash_grover[ash_grov	er['amount_per	_shark']==ash_	grover['	amount	_per_shark'].max(
Out[46]:	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amou
	3 2	4	Tagz Foods	Healthy Potato Chips	1	7(
In [43]:	ash_grover[ash_grov	er['equity_per_	_shark']==ash_	grover['	equity	_per_shark'].max(
Out[43]:	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amoı
	1 1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	4

Anupam Deals

```
In [38]: anupam = df[df['anupam_deal']==1]
anupam
```

Out[38]:		episode_number	pitch_number	brand_name	idea	deal	pitcher_ask
	2	1	3	Heart up my Sleeves	Detachable Sleeves	1	
	9	4	10	Cosiq	Intelligent Skincare	1	
	12	5	13	Revamp Moto	E-Bike	1	1
	15	6	16	Skippi Pops	Ice-Pops	1	
	22	8	23	Vivalyf Innovations- Easy Life	Prickless Diabetes Testing Machine	1	
	28	10	29	Meatyour	Eggs	1	
	31	11	32	ARRCOAT Surface Textures	Wall Building	1	
	35	12	36	LOKA	Metaverse App	1	
	36	13	37	Annie	Braille Literary Device	1	
	37	13	38	Caragreen	Eco- Friendly boxes	1	
	38	13	39	The Yarn Bazaar	Yarn- Trading App	1	
	44	15	45	Cocofit	Coconut based beverage franchise	1	
	45	16	46	Bamboo India	Bamboo Products	1	
	48	16	49	Let's Try	Healthy Snacks	1	
	49	17	50	Find Your Kicks India	Sneaker Resale	1	
	63	20	64	IN A CAN	Can Cocktails	1	
	66	21	67	The Quirky Nari	Customised Apparels	1	
	67	22	68	Hair Originals	Natural Hair Extensions	1	

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask
75	24	76	The Sass Bar	Gifts	1	
78	25	79	PawsIndia	Dog Products	1	
79	25	80	Sunfox Technologies	Portable ECG Device	1	1
85	27	86	Watt Technovations	Ventilated PPE Kits	1	
108	33	109	Tweek Labs	Sportswear	1	
114	35	115	Jain Shikanji	Lemonade	1	

In [11]: sharks(anupam)

```
24 deals with anupam
     amount per shark
                         equity per shark
2
             12.500000
                                15.000000
             25.000000
9
                                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
                                              3.0
                          20.0
        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
                          25.0
        38
                                        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 [37]: 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 [39]: anupam['amount per shark'].sum()
Out[39]: 533.83360253
         anupam['equity per shark'].sum()
In [40]:
Out[40]: 166.35
```

In [25]:	anupam	<pre>anupam[anupam['amount_per_shark']==anupam['amount_per_shark'].max()]</pre>								
Out[25]:	ep	oisode_number	pitch_number	brand_name	idea	deal	pitcher_ask_am			
	12	5	13	Revamp Moto	E-Bike	1	1			
	31	11	32	ARRCOAT Surface Textures	Wall Building	1				
	78	25	79	PawsIndia	Dog Products	1				
In [88]:	anupam	[anupam['equity	/_per_shark']==	anupam['equit	y_per_sha	ark'].	max()]			
Out[88]:	ep	oisode_number	pitch_number	brand_name	idea de	al pit	tcher_ask_amoun			
	75	24	76	The Sass Bar	Gifts	1	40.			

Aman Deals

```
In [41]: aman = df[df['aman_deal']==1]
aman
```

Out[41]:		episode_number	pitch_number	brand_name	idea	deal	pitcher_as
	0	1	1	BluePine Industries	Frozen Momos	1	
	7	3	8	Peeschute	Disposable Urine Bag	1	
	11	4	12	Bummer	Underwear	1	
	12	5	13	Revamp Moto	E-Bike	1	
	15	6	16	Skippi Pops	Ice-Pops	1	
	18	7	19	Raising Superstars	Child Development App	0	
	21	8	22	Beyond Snack	Kerala Banana Chips	1	
	24	9	25	Altor	Smart Helmets	1	
	25	9	26	Ariro	Wooden Toys	1	
	27	10	28	Nuutjob	Male Intimate Hygiene	1	
	28	10	29	Meatyour	Eggs	1	
	29	10	30	EventBeep	Student Community App	1	
	32	11	33	Farda	Customised Streetwear	1	
	35	12	36	LOKA	Metaverse App	1	
	38	13	39	The Yarn Bazaar	Yarn-Trading App	1	
	39	14	40	The Renal Project	Home Dialysis Treatment	1	
	42	15	43	Hammer Lifestyle	Smart Audio Products	1	
	44	15	45	Cocofit	Coconut based beverage franchise	1	
	47	16	48	Beyond Water	Liquid Water Enhancer	1	

48

16

49

Let's Try

Healthy

	episode_number	pitch_number	brand_name	idea	deal	pitcher_as
				Snacks		
49	17	50	Find Your Kicks India	Sneaker Resale	1	
58	19	59	WeSTOCK	Livestock health monitoring Al	1	
63	20	64	IN A CAN	Can Cocktails	1	
64	21	65	Get a Whey	Sugar-Free Icecream	1	
71	23	72	Namhya Foods	Ayurvedic Enriched Food	1	
100	31	101	AyuRythm	Ayurvedic Wellness App	1	
104	32	105	GrowFitter	Rewards App	1	
114	35	115	Jain Shikanji	Lemonade	1	

In []:

In [49]: sharks(aman)

```
10 deals with anupam
     amount per shark
                         equity_per_shark
12
             50.000000
                                  0.750000
15
                                  3.000000
             20.000000
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
27 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
21
             25.000000
                                  1.250000
             25.000000
24
                                  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
                                  1.666667
              0.000017
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
                                       6.66667
        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: []
        10 deals with ashneer
             amount_per_shark
                               equity per shark
        0
                    25.000000
                                        5.333333
        15
                    20.000000
                                        3.000000
        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
                                        7.500000
                    10.000000
In [92]: 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 160.2633333334 %
       Total amount invested on shark tank by Aman 887.5000166929999 lakhs
In [42]:
         aman['amount per shark'].sum()
Out[42]: 887.500016693
In [43]:
         aman['equity per shark'].sum()
```

```
Out[43]: 160.263333334
In [93]: aman[aman['amount_per_shark']==aman['amount_per_shark'].max()]
             episode_number pitch_number brand_name
Out[93]:
                                                             idea deal pitcher_ask_am-
                                                            Smart
                                                 Hammer
         42
                           15
                                         43
                                                             Audio
                                                                      1
                                                 Lifestyle
                                                          Products
In [94]:
         aman[aman['deal_equity']==aman['deal_equity'].max()]
Out[94]:
             episode_number pitch_number brand_name
                                                             idea
                                                                   deal pitcher_ask_am
                                                            Smart
                                                 Hammer
         42
                           15
                                         43
                                                             Audio
                                                                      1
                                                 Lifestyle
                                                          Products
```

Namita Deals

```
In [50]: namita = df[df['namita_deal']==1]
    namita
```

Out[50]:		episode_number	pitch_number	brand_name	idea	deal	pitcher_ask
-	11	4	12	Bummer	Underwear	1	
	15	6	16	Skippi Pops	Ice-Pops	1	
	16	6	17	Menstrupedia	Menstrual Awareness Comic	1	
	24	9	25	Altor	Smart Helmets	1	
	27	10	28	Nuutjob	Male Intimate Hygiene	1	
	32	11	33	Farda	Customised Streetwear	1	
	33	12	34	Auli Lifestyle	Ayurvedic Products	1	
	36	13	37	Annie	Braille Literary Device	1	
	39	14	40	The Renal Project	Home Dialysis Treatment	1	1
	44	15	45	Cocofit	Coconut based beverage franchise	1	
	47	16	48	Beyond Water	Liquid Water Enhancer	1	
	49	17	50	Find Your Kicks India	Sneaker Resale	1	
	50	17	51	Aas Vidyalaya	EdTech App	1	1
	58	19	59	WeSTOCK	Livestock health monitoring Al	1	
	63	20	64	IN A CAN	Can Cocktails	1	
	79	25	80	Sunfox Technologies	Portable ECG Device	1	1
	83	26	84	Rare Planet	Handicrafts	1	
	85	27	86	Watt Technovations	Ventilated PPE Kits	1	
	91	29	92	Wakao Foods	Jackfruit	1	

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask
				Products		
95	30	96	Kabaddi Adda	All-Kabaddi App	1	
106	33	107	Colour Me Mad	Insoles	1	
110	34	111	Nomad Food Project	Bacon Jams	1	

In [51]: 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
                                5.000000
            10.000000
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
            37.500000
11
                                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
                         equity_per_shark
     amount 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
                                       6.66667
        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
                                             7.0
        91
                    25.000000
        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
                         15.0
        58
                                             2.5
        63
                         20.0
                                             2.0
        110
                         10.0
                                             5.0
In [98]: 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 134.78333333400002 %
        Total amount invested on shark tank by namita 648.333602533 lakhs
In [99]:
         namita[namita['amount per shark']==namita['amount per shark'].max()]
              episode_number pitch_number brand_name
                                                                idea deal pitcher_ask_an
Out[99]:
                                                            Ayurvedic
         33
                            12
                                           34
                                               Auli Lifestyle
                                                                         1
                                                             Products
         namita[namita['equity per shark']==namita['equity per shark'].max()]
In [28]:
               episode_number pitch_number brand_name
                                                               idea deal pitcher_ask_amo
Out[28]:
                                                   Colour Me
          106
                                           107
                                                             Insoles
                             33
                                                                        1
                                                        Mad
```

Vineeta Deals

In [52]: vineeta = df[df['vineeta_deal']==1]
 vineeta

Out[52]:		episode_number	pitch_number	brand_name	idea	deal	pitcher_ask
	0	1	1	BluePine Industries	Frozen Momos	1	
	1	1	2	Booz scooters	Renting e- bike for mobility in private spaces	1	
	2	1	3	Heart up my Sleeves	Detachable Sleeves	1	
	8	3	9	NOCD	Energy Drink	1	
	9	4	10	Cosiq	Intelligent Skincare	1	
	15	6	16	Skippi Pops	Ice-Pops	1	
	64	21	65	Get a Whey	Sugar-Free Icecream	1	
	66	21	67	The Quirky Nari	Customised Apparels	1	
	79	25	80	Sunfox Technologies	Portable ECG Device	1	
	88	28	89	Humpy A2	Organic Milk Products	1	
	90	28	91	Gold Safe Solutions Ind.	Anti- Suicidal Fan Rod	1	
	91	29	92	Wakao Foods	Jackfruit Products	1	
	95	30	96	Kabaddi Adda	All-Kabaddi App	1	
	110	34	111	Nomad Food Project	Bacon Jams	1	
	114	35	115	Jain Shikanji	Lemonade	1	

In [53]: vineeta['amount_per_shark'].sum()

Out[53]: 328.3333333300001

```
In [54]: vineeta['equity_per_shark'].sum()
Out[54]: 131.533333333
In [103... 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
                                     12.0
66
                  17.5
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
            33.33333
                                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
                                3.000000
            40.000000
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
                                     5.0
           33.333333
90
           16.666667
                                    10.0
5 deals with ghazal
     amount per shark
                       equity per shark
79
            20,000000
                                      1.2
88
                                      5.0
            33.333333
90
                                     10.0
            16.666667
                                     7.0
91
            25.000000
```

```
5.0
        110
                    10.000000
        6 deals with ashneer
             amount_per_shark equity_per_shark
        0
                    25.000000
                                        5.333333
        1
                    20.000000
                                       25.000000
        15
                                        3.000000
                    20.000000
                    33.33333
                                        5.000000
        64
        110
                    10.000000
                                        5.000000
        114
                    10.000000
                                        7.500000
In [104... | 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 328.3333333300001 lakhs
         vineeta[vineeta['amount per shark']==vineeta['amount per shark'].max()]
In [105...
Out[105...
              episode_number pitch_number brand_name
                                                               idea deal pitcher_ask_ama
                                                                All-
          95
                            30
                                          96 Kabaddi Adda Kabaddi
                                                                        1
                                                                App
In [106...
         vineeta[vineeta['deal equity']==vineeta['deal equity'].max()]
Out[106...
            episode_number pitch_number brand_name
                                                              idea deal pitcher_ask_amou
                                                           Renting
                                                             e-bike
                                                               for
                                                     Booz
          1
                                          2
                                                           mobility
                                                                       1
                                                                                         4
                                                  scooters
                                                                in
                                                            private
                                                            spaces
```

Peyush Deals

```
In [17]: peyush= df[df['peyush_deal']==1]
    peyush
```

Out[17]:		episode_number	pitch_number	brand_name	idea	deal	pitcher_ask
	22	8	23	Vivalyf Innovations- Easy Life	Prickless Diabetes Testing Machine	1	
	25	9	26	Ariro	Wooden Toys	1	
	27	10	28	Nuutjob	Male Intimate Hygiene	1	
	28	10	29	Meatyour	Eggs	1	
	29	10	30	EventBeep	Student Community App	1	
	35	12	36	LOKA	Metaverse App	1	
	36	13	37	Annie	Braille Literary Device	1	
	37	13	38	Caragreen	Eco- Friendly boxes	1	
	38	13	39	The Yarn Bazaar	Yarn- Trading App	1	
	43	15	44	PNT	Robotics and Automation Solutions	1	
	49	17	50	Find Your Kicks India	Sneaker Resale	1	
	50	17	51	Aas Vidyalaya	EdTech App	1	1
	52	17	53	RoadBounce	Pothole Detection Software and Data	1	
	58	19	59	WeSTOCK	Livestock health monitoring Al	1	
	61	20	62	The State Plate	Delicacies	1	
	63	20	64	IN A CAN	Can Cocktails	1	

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask
65	21	66	Sid07 Designs	Inventions	1	
67	22	68	Hair Originals	Natural Hair Extensions	1	
76	24	77	KG Agrotech	Agricultural Innovations	1	
79	25	80	Sunfox Technologies	Portable ECG Device	1	1
81	26	82	lsak Fragrances	Perfumes	1	
85	27	86	Watt Technovations	Ventilated PPE Kits	1	
87	27	88	Insurance Samadhan	Insurance Solutions	1	1
88	28	89	Humpy A2	Organic Milk Products	1	
90	28	91	Gold Safe Solutions Ind.	Anti- Suicidal Fan Rod	1	
108	33	109	Tweek Labs	Sportswear	1	
109	33	110	Proxgy	VR	1	

In [56]: peyush['amount_per_shark'].sum()

Out[56]: 719.6669191630001

In [57]: peyush['equity_per_shark'].sum()

Out[57]: 315.8499999999997

In [109... sharks(peyush)

```
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
                                     12.0
66
                  17.5
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
            33.33333
                                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
                                3.000000
            40.000000
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
                                     5.0
           33.333333
90
           16.666667
                                    10.0
5 deals with ghazal
     amount per shark
                       equity per shark
79
            20,000000
                                      1.2
88
                                      5.0
            33.333333
90
                                     10.0
            16.666667
                                     7.0
91
            25.000000
```

```
110
                    10.000000
                                             5.0
        6 deals with ashneer
             amount per shark equity per shark
        0
                    25.000000
                                       5.333333
                    20.000000
                                      25.000000
        1
        15
                    20.000000
                                       3.000000
        64
                    33.33333
                                       5.000000
                    10.000000
                                       5.000000
        110
        114
                    10.000000
                                       7.500000
In [110... | eqt = df.groupby('peyush deal')['equity per shark'].sum()[1]
         amt = df.groupby('peyush deal')['amount per shark'].sum()[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 315.8499999999999 %
        Total amount invested on shark tank by peyush 719.666919163 lakhs
         peyush[peyush['amount per shark']==peyush['amount per shark'].max()]
In [49]:
Out[49]:
              episode_number pitch_number brand_name
                                                               idea deal pitcher_ask_an
                                                 Insurance Insurance
         87
                           27
                                          88
                                                                        1
                                                Samadhan
                                                           Solutions
In [48]:
         peyush[peyush['deal_equity']==peyush['deal_equity'].max()]
Out[48]:
              episode_number pitch_number brand_name
                                                                idea deal pitcher_ask_aı
                                                     Sid07
          65
                                                                         1
                           21
                                          66
                                                           Inventions
                                                   Designs
         peyush.sort values(by='equity per shark',ascending=False)
```

t[20]:

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

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask
			Plate			
38	13	39	The Yarn Bazaar	Yarn- Trading App	1	
58	19	59	WeSTOCK	Livestock health monitoring Al	1	
63	20	64	IN A CAN	Can Cocktails	1	
67	22	68	Hair Originals	Natural Hair Extensions	1	
79	25	80	Sunfox Technologies	Portable ECG Device	1	1
85	27	86	Watt Technovations	Ventilated PPE Kits	1	
36	13	37	Annie	Braille Literary Device	1	
29	10	30	EventBeep	Student Community App	1	

Ghazal Deals

```
In [58]: ghazal=df[df['ghazal_deal']==1]
ghazal
```

Out[58]:	episode_	number p	itch_number	brand_name	idea	deal	pitcher_ask_a
	75	24	76	The Sass Bar	Gifts	1	4
	79	25	80	Sunfox Technologies	Portable ECG Device	1	10
	85	27	86	Watt Technovations	Ventilated PPE Kits	1	
	88	28	89	Humpy A2	Organic Milk Products	1	7
	90	28	91	Gold Safe Solutions Ind.	Anti- Suicidal Fan Rod	1	5
	91	29	92	Wakao Foods	Jackfruit Products	1	7
	110	34	111	Nomad Food Project	Bacon Jams	1	4
In [59]:	ghazal['amoun	t_per_shark	<'].sum()				
Out[59]:	130.0002525						
In [60]:	<pre>ghazal['equity_per_shark'].sum()</pre>						
Out[60]:	46.7						
In [115	sharks(ghazal)					

```
3 deals with anupam
           amount per shark equity per shark
       75
                  25.000000
                                        17.5
                                          1.2
       79
                  20.000000
       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
                   25.000000
                                           7.0
       91
       110
                   10.000000
                                           5.0
       5 deals with vineeta
            amount per shark equity per shark
       79
                   20.000000
                                           1.2
                                           5.0
       88
                   33.333333
       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
       85
                   0.000253
                                          1.0
       88
                                          5.0
                  33.333333
       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 [38]: eqt = df.groupby('ghazal_deal')['equity_per_shark'].sum()[1]
         amt = df.groupby('ghazal deal')['amount per shark'].sum()[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 130.0002525 lakhs

```
ghazal[ghazal['amount per shark']==ghazal['amount per shark'].max()]
              episode_number pitch_number brand_name
                                                                 idea deal pitcher ask am
Out[117...
                                                               Organic
          88
                            28
                                            89
                                                   Humpy A2
                                                                  Milk
                                                                          1
                                                              Products
          ghazal[ghazal['deal_equity']==ghazal['deal_equity'].max()]
In [118...
              episode_number pitch_number brand_name idea deal pitcher_ask_amoun
Out[118...
          75
                            24
                                            76
                                                The Sass Bar Gifts
                                                                       1
                                                                                          40.
In [128...
          df.head(5)
Out[128...
             episode_number pitch_number brand_name
                                                                    idea deal pitcher ask
                                                   BluePine
                                                                   Frozen
          0
                                                                             1
                            1
                                            1
                                                  Industries
                                                                  Momos
                                                                Renting e-
                                                                  bike for
                                                       Booz
          1
                            1
                                                               mobility in
                                            2
                                                                             1
                                                   scooters
                                                                  private
                                                                  spaces
                                                              Detachable
                                                Heart up my
          2
                                            3
                            1
                                                                             1
                                                    Sleeves
                                                                  Sleeves
                                                                  Healthy
          3
                                                                             1
                            2
                                            4
                                                 Tagz Foods
                                                             Potato Chips
                                                                    Brain
                                                  Head and
                            2
                                            5
          4
                                                                             0
                                                             Development
                                                      Heart
                                                                  Course
```

Number of Sharks Teamedup

```
# 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 [55]: # 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()
                5.0
                4.5
                4.0
                3.5
                3.0
                2.5
                2.0
                                                                                                                                           Proxgy
Nomad Food Project
Jain Shikanji
                                           Revamp Moto
Skippi Pops
                                                                                                     Aas Vidyalaya
WeSTOCK
IN A CAN
                                                              Nuutjob
Meatyour
EventBeep
Farda
LOKA
Annie
                                                                               Caragreen
The Yarn Bazaar
The Renal Project
                                                                                       Cocofit
                                                                                                                  Hair Originals
The Sass Bar
                                                      Vivalyf Innovations- Easy Life
Altor
                                Booz scooters
Heart up my Sleeves
                                      Cosid
                                        Bummer
                                                Raising Superstars
                             BluePine Industries
                                                   Beyond Snack
                                                                                          Bamboo India
                                                                                            Beyond Water
                                                                                               Let's Try
                                                                                                  Find Your Kicks India
                                                                                                             Get a Whey
                                                                                                                The Quirky Nari
                                                                                                                        Sunfox Technologies
                                                                                                                           Watt Technovations
                                                                                                                              Humpy A2
                                                                                                                                Gold Safe Solutions Ind
                                                                                                                                   Wakao Foods
                                                                                                                                      Kabaddi Adda
                                                                                                                                         Tweek Labs
In [162...
                 df.groupby(['ashneer_deal'])['amount_per_shark'].sum()
Out[162... ashneer deal
                          1627.166936
                           494.333333
                 Name: amount per shark, dtype: float64
```

```
In [17]: o=[1,2,3,45]
         C=0
         for i in o:
             c+=i
         print(c)
        51
In [19]: df.episode number
Out[19]: 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

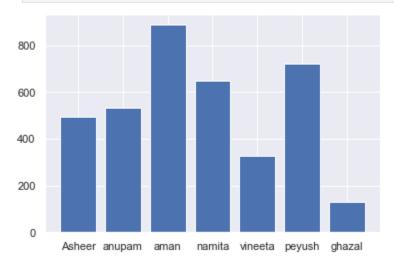
```
In [23]: amt
        NameError
                                                   Traceback (most recent call last)
        Cell In[23], line 1
        ----> 1 amt
        NameError: name 'amt' is not defined
In [22]: L=[494,887,223]
         t=ash_grover['amount_per_shark'].sum()
         t2=aman['amount_per_shark'].sum()
         print(t)
         print(t2)
        494.33333333
        887.500016693
 In [ ]: e=[1,2,3,4,]
In [17]: a=df[df['ashneer_deal']==1]
         aa=list(a['amount_per_shark'])
         t=0
         for i in aa:
```

```
t+=i
         b=df[df['anupam deal']==1]
         ba=list(b.amount_per_shark)
         u=0
         for i in ba:
             u+=i
         c=df[df['aman deal']==1]
         ca=list(c.amount_per_shark)
         v=0
         for i in ca:
             v+=i
         d=df[df['namita deal']==1]
         da=list(d.amount_per_shark)
         w=0
         for i in da:
             w += i
         e=df[df['vineeta deal']==1]
         ea=list(e.amount_per_shark)
         x=0
         for i in ea:
             x+=i
         f=df[df['peyush deal']==1]
         fa=list(f.amount per shark)
         y=0
         for i in fa:
             y+=i
         g=df[df['ghazal deal']==1]
         ga=list(g.amount_per_shark)
         z=0
         for i in ga:
             z+=i
In [18]:
         t=ash_grover['amount_per_shark'].sum()
         anump['']
In [21]:
Out[21]: 533.83360253
In [68]:
         peyush
```

Out[68]:	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask
22	8	23	Vivalyf Innovations- Easy Life	Prickless Diabetes Testing Machine	1	
25	9	26	Ariro	Wooden Toys	1	
27	10	28	Nuutjob	Male Intimate Hygiene	1	
28	10	29	Meatyour	Eggs	1	
29	10	30	EventBeep	Student Community App	1	
35	12	36	LOKA	Metaverse App	1	
36	13	37	Annie	Braille Literary Device	1	
37	13	38	Caragreen	Eco- Friendly boxes	1	
38	13	39	The Yarn Bazaar	Yarn- Trading App	1	
43	15	44	PNT	Robotics and Automation Solutions	1	
49	17	50	Find Your Kicks India	Sneaker Resale	1	
50	17	51	Aas Vidyalaya	EdTech App	1	1
52	17	53	RoadBounce	Pothole Detection Software and Data	1	
58	19	59	WeSTOCK	Livestock health monitoring Al	1	
61	20	62	The State Plate	Delicacies	1	
63	20	64	IN A CAN	Can Cocktails	1	

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask
65	21	66	Sid07 Designs	Inventions	1	
67	22	68	Hair Originals	Natural Hair Extensions	1	
76	24	77	KG Agrotech	Agricultural Innovations	1	
79	25	80	Sunfox Technologies	Portable ECG Device	1	1
81	26	82	lsak Fragrances	Perfumes	1	
85	27	86	Watt Technovations	Ventilated PPE Kits	1	
87	27	88	Insurance Samadhan	Insurance Solutions	1	1
88	28	89	Humpy A2	Organic Milk Products	1	
90	28	91	Gold Safe Solutions Ind.	Anti- Suicidal Fan Rod	1	
108	33	109	Tweek Labs	Sportswear	1	
109	33	110	Proxgy	VR	1	

In [124... l1=['Asheer', 'anupam', 'aman', 'namita', 'vineeta', 'peyush', 'ghazal']
l2=[t,u,v,w,x,y,z]
plt.bar(l1,l2);



In [125... sns.barplot(l1,l2);

```
800
400
200
Asheer anupam aman namita vineeta peyush ghazal
```

Total equity owned by sharks in diffrent Companies

```
In [36]: h=df[df['ashneer_deal']==1]
he=list(h.equity_per_shark)
a=0
for i in he:
    a+=i

i=df[df['anupam_deal']==1]
ie=list(i.equity_per_shark)
b=0
```

```
for y in ie:
             b+=y
         j=df[df['aman deal']==1]
         je=list(j.equity_per_shark)
         c=0
         for i in je:
             c+=i
         k=df[df['namita deal']==1]
         ke=list(k.equity_per_shark)
         d=0
         for i in ke:
             d+=i
         l=df[df['vineeta deal']==1]
         le=list(l.equity_per_shark)
         e=0
         for i in le:
             e+=i
         m=df[df['peyush deal']==1]
         me=list(m.equity_per_shark)
         f=0
         for i in me:
             f+=i
         n=df[df['ghazal deal']==1]
         ne=list(n.equity_per_shark)
         g=0
         for i in ne:
             g+=i
In [22]: o=df[df['peyush deal']==1]
         o['equity per shark'].sum()
Out[22]: 315.8499999999997
In [ ]: o=df[df['peyush deal']==1]
         o['equity_per_shark'].sum()
In [19]: df.head(10)
```

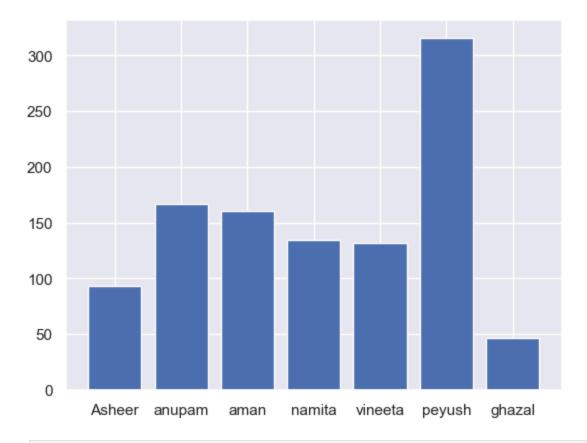
Out[19]:		episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_
	0	1	1	BluePine Industries	Frozen Momos	1	
	1	1	2	Booz scooters	Renting e- bike for mobility in private spaces	1	
	2	1	3	Heart up my Sleeves	Detachable Sleeves	1	
	3	2	4	Tagz Foods	Healthy Potato Chips	1	
	4	2	5	Head and Heart	Brain Development Course	0	
	5	2	6	Agro tourism	Tourism	0	
	6	3	7	Qzense Labs	Food Freshness Detector	0	
	7	3	8	Peeschute	Disposable Urine Bag	1	
	8	3	9	NOCD	Energy Drink	1	
	9	4	10	Cosiq	Intelligent Skincare	1	

In [66]: peyush.sort_values(by='equity_per_shark',ascending=False)

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

Out[66]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask
			Plate			
38	13	39	The Yarn Bazaar	Yarn- Trading App	1	
58	19	59	WeSTOCK	Livestock health monitoring Al	1	
63	20	64	IN A CAN	Can Cocktails	1	
67	22	68	Hair Originals	Natural Hair Extensions	1	
79	25	80	Sunfox Technologies	Portable ECG Device	1	1
85	27	86	Watt Technovations	Ventilated PPE Kits	1	
36	13	37	Annie	Braille Literary Device	1	
29	10	30	EventBeep	Student Community App	1	
12=[' <mark>Asheer','anupam'</mark> a,b,c,d,e,f,g] bar(l1,l2);	,'aman','namita	','vineeta','μ	peyush','gha	zal']	



In [52]: xyz=df[df['ashneer_deal']==1]
 xyz['equity_per_shark'].sum()

Out[52]: 93.249999999

In [67]: df['anupam_deal'].sum()

Out[67]: **24**

In [56]: df.head(2)

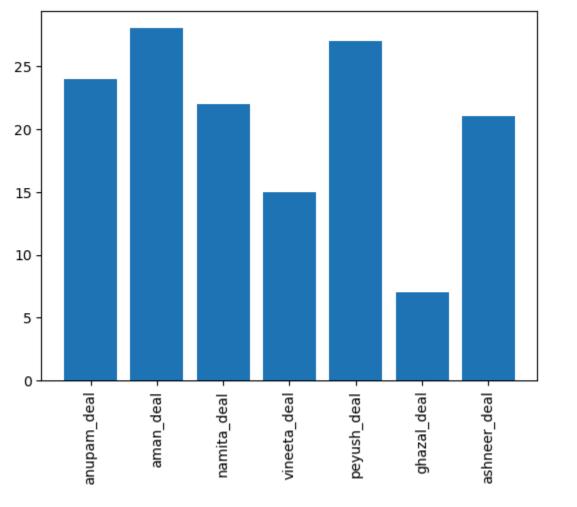
Out[56]:		episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amou
	0	1	1	BluePine Industries	Frozen Momos	1	5
	1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	4

which Shark invested in most companies

```
In [24]: D=[]
list = ['anupam_deal','aman_deal','namita_deal','vineeta_deal','peyush_deal','
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 [25]: plt.bar(list,D)
   plt.xticks(rotation=90);
```

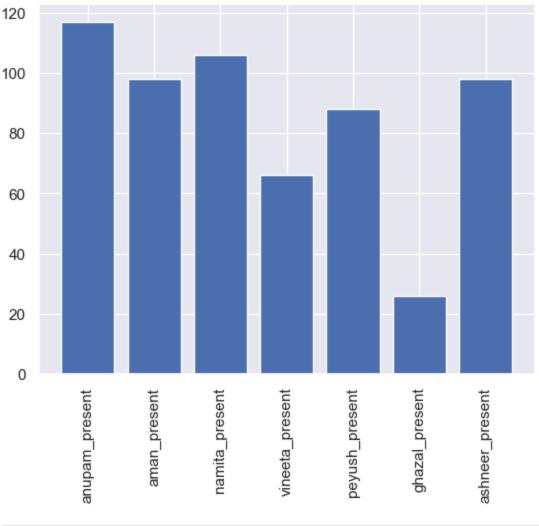


```
In []:
```

```
In [58]: # len(df[df['anupam_deal']==1])
In [54]: 24+28+22+15+27+7+21
Out[54]: 144
```

Insights 8: Which Shark present at the time of Company

```
In [57]: df.head(1)
            episode_number pitch_number brand_name
                                                            idea deal pitcher_ask_amou
Out[57]:
                                                 BluePine
                                                          Frozen
         0
                           1
                                          1
                                                                    1
                                                                                       50
                                                Industries Momos
In [41]:
         p=[]
         list = ['anupam present', 'aman present', 'namita present', 'vineeta present', 'pe
         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 [43]: plt.bar(list,p)
         plt.xticks(rotation=90);
```

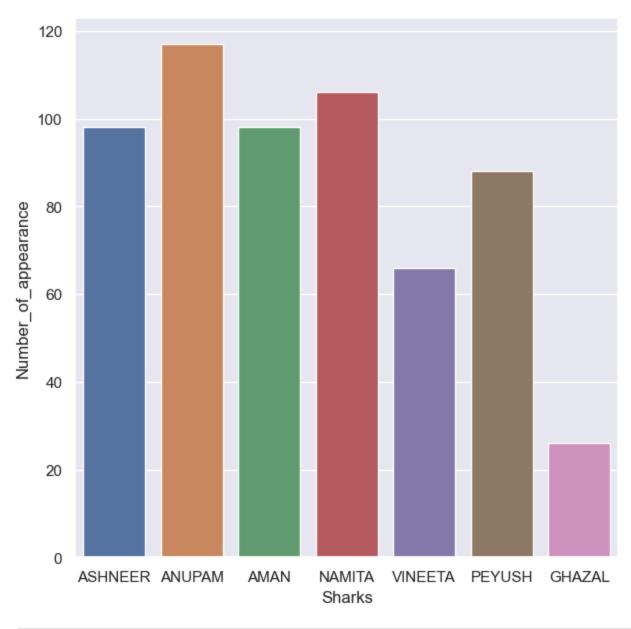


In [91]:

XX

Out[91]:		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 [63]: plt.figure(figsize=(7,7))
sns.barplot(x='Sharks',y='Number_of_appearance',data=xx);
```



In []:	
In []:	

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Amount invested by the shark According to the ask valuation

```
In [63]: fig, ax =plt.subplots(figsize =(30, 10))
sns.barplot(data = df, y='ask_valuation', x='amount_per_shark',ci=None)
plt.show()

In [39]: d={}
m=int(input('how many columns'))
for k in range(m):
    x=input('enter x ')
    j=0
    n=len(x)
    u=0
    for i in range(n):
    d[u]=[x[j]]
    u+=1
```

```
d
             a=pd.Series(d)
             z=pd.DataFrame(a)
       how many columns2
       enter x deepanshu
       enter x verma
In [40]: z
Out[40]:
         0 v
         2 v
         5 d
         6 d
         8 d
In [48]: D={}
         L=[]
         i=0
         for i in range(2):
             x=input('enter ').split(' ')
             D[i]=x
             i+=1
         pd.DataFrame(D)
       enter deepanshu
       enter abcdefghi
                    0
                              1
Out[48]:
         0 deepanshu abcdefghi
In [ ]:
 In [ ]:
 In [ ]:
```

In []:	
In []:	