## **Shark Tank India Investments Analysis**

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. The first season of Shark Tank India premiered on 20 December 2021 and concluded on 4 February 2022

## Libraries required for the Analysis

```
In [2]: 1 import pandas as pd
2 import matplotlib.pyplot as plt
3 import seaborn as sns
4 import numpy as np
5 import plotly.offline as pyo
6 import plotly.graph_objs as go
7 import plotly.express as px
In [3]: 1 df = pd.read_csv("Shark Tank India.csv")
2 df.head()
```

#### Out[3]:

	Season Number	Episode Number	Episode Title	Pitch Number	Startup Name	Industry	Business Description	Company Website	Number of Presenters	Male Presenters		Aman Investment Amount	Aman Investment Equity	Aman Debt Amount	Peyush Investment Amount	Peyush Investment Equity	Peyush Debt Amount	Gha Investm Amo
0	1	1	Badlegi Business Ki Tasveer	1	BluePine Foods	Food	Frozen Momos	https://bluepinefoods.com/	3	2.0		25.0	5.33	NaN	NaN	NaN	NaN	N
1	1	1	Badlegi Business Ki Tasveer	2	Booz Scooters	Electrical Vehicles	Renting e- bike for mobility in private spaces	https://www.boozup.net/	1	1.0		0.0	0.00	NaN	NaN	NaN	NaN	N
2	1	1	Badlegi Business Ki Tasveer	3	Heart up my Sleeves	Beauty/Fashion	Detachable Sleeves	https://heartupmysleeves.com/	1	NaN		0.0	0.00	NaN	NaN	NaN	NaN	N
3	1	2	Insaan, Ideas Aur Sapne	4	Tagz Foods	Food	Healthy Potato Chips Snacks	https://tagzfoods.com/	2	2.0		0.0	0.00	NaN	NaN	NaN	NaN	N
4	1	2	Insaan, Ideas Aur Sapne	5	Head and Heart	Education	Brain Development Course	https://thehnh.in/	4	1.0		NaN	NaN	NaN	NaN	NaN	NaN	N
5 rows × 50 columns																		

## **Data Types of the Columns**

```
In [5]: 1 df.dtypes
            Namita Investment Equity
                                                         float64
            Namita Debt Amount
Anupam Investment Amount
Anupam Investment Equity
                                                         float64
                                                         float64
                                                         float64
            Anupam Debt Amount
                                                         float64
            Vineeta Investment Amount
Vineeta Investment Equity
Vineeta Debt Amount
                                                        float64
float64
float64
            Aman Investment Amount
                                                         float64
            Aman Investment Equity
Aman Debt Amount
                                                         float64
float64
            Peyush Investment Amount
                                                         float64
            Peyush Investment Equity
Peyush Debt Amount
Ghazal Investment Amount
                                                         float64
                                                         float64
float64
            Ghazal Investment Equity
                                                         float64
            Ghazal Debt Amount
                                                         float64
            Number of sharks in deal dtype: object
```

```
In [16]: 1 # No of Episodes unique gives the List of items where as nuniquew gives the num of unique number
2  print(df["Episode Number"].unique())
3  print(df["Episode Number"].nunique())
```

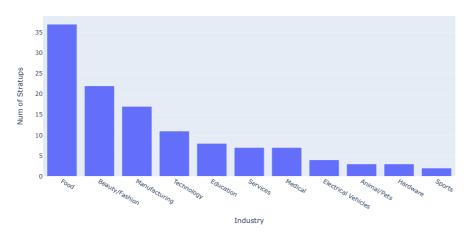
```
[ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36]
```

## Number of Stratups from different Industry

In [8]: 1 print("Number of Stratups from Different Industries", '\n','-'\*45, '\n', df['Industry'].value\_counts())

```
In [9]: 1 fig = go.Figure()
2 fig.add_trace(go.Bar(x=x.index, y =x.values))
3 fig.update_layout(title='Number of Stratups per Industry', xaxis_title = "Industry", yaxis_title= "Num of Stratups")
```

## Number of Stratups per Industry





## Which State has highest number stratups in Shark Tank

```
In [10]: 1 df['Received Offer'].replace(1, "Offer Recieved", inplace=True)
2 df['Received Offer'].replace(0, "Offer Not Recieved", inplace=True)
3 df['Accepted Offer'].replace(0, "Offer Declined", inplace=True)
4 df['Accepted Offer'].replace(1, "Offer Accepted", inplace=True)
5 p = df['Received Offer'].value_counts()
6 u = df['Accepted Offer'].value_counts()
7 print("Number of Stratups Recieved Offer: ", p[0])
8 print("Number of Stratups Not Recieved Offer: ", p[1])
9 print("Number of Stratups Accepted Offer: ", u[0])
10 print("Number of Stratups Not Accepted Offer: ", u[1])
11
                          plt.figure(figsize=(15,8))
                          p.plot(kind='bar', color = ['green', 'red'])
plt.xticks(rotation = 0)
                    13
14
15
16
                    17
                    ax2 = plt.subplot(222)
p.plot(kind='pie', autopct ='%.2f', explode = (0,0.05), colors=(['green', 'red']))
                    20
                    ax3 = plt.subplot(223)
u.plot(kind='bar', color = ['green', 'red'])
23 plt.xticks(rotation = 0)
                    24
                   ax4 = plt.subplot(224)
26 u.plot(kind='pie', autopct ='%.2f', explode = (0,0.05), colors=(['green', 'red']))
                  Number of Stratups Recieved Offer: 88
Number of Stratups Not Recieved Offer: 33
Number of Stratups Accepted Offer: 67
                  Number of Stratups Accepted Offer: 67
Number of Stratups Not Accepted Offer: 21
 Out[10]: <AxesSubplot:ylabel='Accepted Offer'>
                     60
                     20
                                                                                  Offer Not Recieved
                                       Offer Recieved
                     70
                     60
                     50
                     40
                     30
                     20
                     10
                                       Offer Accepted
In [140]: 1
                   Number of Stratups Recieved Offer: 88
                  Number of Stratups Not Recieved Offer: 33
Number of Stratups Accepted Offer: 67
Number of Stratups Not Accepted Offer: 21
                    plt.figure(figsize=(15,8))
2 ax1 = plt.subplot(221)
3 p.plot(kind='bar', color = ['green', 'red'])
4 plt.xticks(rotation = 0)
In [149]:
                          ax2 = plt.subplot(222)
                          p.plot(kind='pie', autopct ='%.2f', explode = (0,0.05), colors=(['green', 'red']))
                    10 ax3 = plt.subplot(223)
                   11 u.plot(kind='bar', color = ['green', 'red'])
12 plt.xticks(rotation = 0)
                    14 ax4 = plt.subplot(224)
                    15 u.plot(kind='pie', autopct ='%.2f', explode = (0,0.05), colors=(['green', 'red']))
Out[149]: <AxesSubplot:ylabel='Accepted Offer'>
                     80
                     60
                     20
                      0
                     60
                     50
                     40
                     30
                     20
                     10
In [154]: 1 df['Valuation Offered']
Out[154]: 56977.0
```

In [ ]: 1

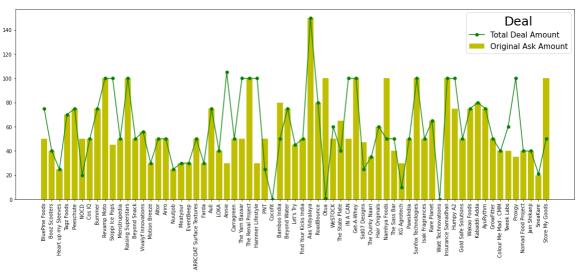
## Was their a bargin on deal amount?

C:\Users\Premk\AppData\Local\Temp/ipykernel\_10588/3309688150.py:5: SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row\_indexer,col\_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html#returning-a-view-versus-a-copy (https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html#returning-a-view-versus-a-copy)

Out[16]: <matplotlib.legend.Legend at 0x1797981ca90>



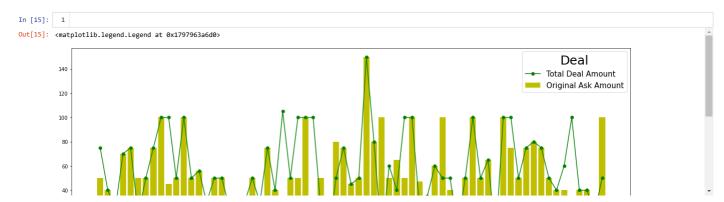
# Stratup

```
In [14]: 1 v["Valuation Offered"]=v["Valuation Offered"].astype(np.int64)
```

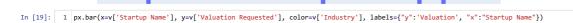
C:\Users\Premk\AppData\Local\Temp/ipykernel\_10588/1212485624.py:1: SettingWithCopyWarning:

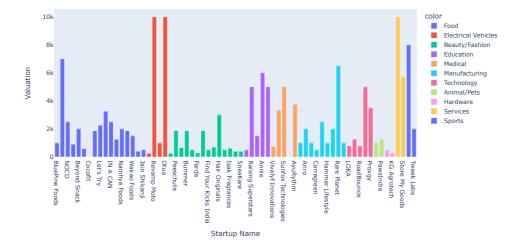
A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row\_indexer,col\_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html#returning-a-view-versus-a-copy (https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html#returning-a-view-versus-a-copy)



Valuation requested vs Valuation Offered





Let's Try -Your Kicks India -Aas Vidyalaya -

Carragreen
The Yarn Bazaar
The Renal Project
Hammer Lifestyle
PMT
Coofit
Bamboo India
Beyond Water

Farda Auli LOKA Annie RoadBounce
Cuta
WeSTOCK
The State Plate
IN A CAN
Get-A-Whey
Sid07 Designs
The Quirk Persions
Hair Originals
Hair Originals
The State
KG Agrobech

#### Number of investments by Sharks

Bummer Revamp Moto Skippi Ice Pops Menstrupedia Raising Superstars Beyond Snack -

ion Breeze -Altor -Ariro -Nuutjob -Meatyour -

BluePine Foods Booz Scooters tup my Sleeves Bagz Foods Peeschute NOCD Cos IQ

```
Ashneer_amount=df.loc[(df["Ashneer Investment Amount"].isnull()==False)&(df["Ashneer Investment Amount"]!=0)]

Anupam_amount=df.loc[(df["Anupam Investment Amount"].isnull()==False)&(df["Anupam Investment Amount"]!=0)]

Anupam_amount=df.loc[(df["Anupam Investment Amount"].isnull()==False)&(df["Anupam Investment Amount"]!=0)]

Vineeta_amount=df.loc[(df["Vineeta Investment Amount"].isnull()==False)&(df["Vineeta Investment Amount"]!=0)]

Aman_amount=df.loc[(df["Anupam Investment Amount"].isnull()==False)&(df["Peyush Investment Amount"]!=0)]

Peyush_amount=df.loc[(df["Reyush Investment Amount"].isnull()==False)&(df["Peyush Investment Amount"]!=0)]

print("."*60,"\n","Ashneer invested in",len(Ashneer_amount),"number of business in the season.")

print("Namita invested in",len(Namita amount),"number of business in the season.")

print("Vineeta invested in",len(Anupam amount),"number of business in the season.")

print("Manupam invested in",len(Aman_amount),"number of business in the season.")

print("Manupam invested in",len(Aman_amount),"number of business in the season.")

print("Peyush invested in",len(Aman_amount),"number of business in the season.")

print("Peyush invested in",len(Aman_amount),"number of business in the season.")

print("Peyush invested in",len(Aman_amount),"number of business in the season.")

print("Reyush invested in",len(Aman_amount),"number of business in the season.")

print("Ghazal invested in",len(Ghazal_amount),"number of business in the season.")

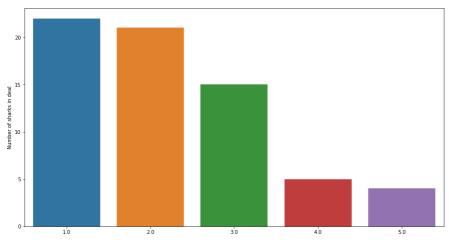
print("Ghazal invested in",len(Ghazal_amount),"number of business in the season.")
```

Ashneer invested in 21 number of business in the season. Namita invested in 24 number of business in the season. Anupam invested in 24 number of business in the season. Vineeta invested in 16 number of business in the season. Aman invested in 29 number of business in the season. Peyush invested in 28 number of business in the season. Ghazal invested in 7 number of business in the season.

### Number of Sharks in a deal

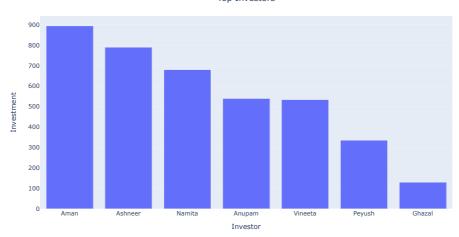
```
In [37]: 1 d4=df["Number of sharks in deal"].value_counts()
2 plt.figure(figsize=(15,8))
3 sns.barplot(x=d4.index, y=d4)
```

Out[37]: <AxesSubplot:ylabel='Number of sharks in deal'>



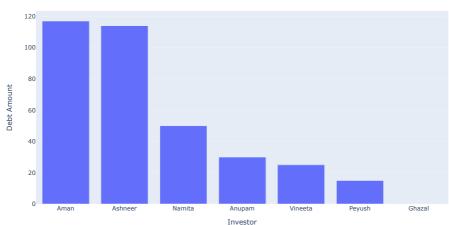
**Total Equity Investments by Sharks** 

#### Top Investors



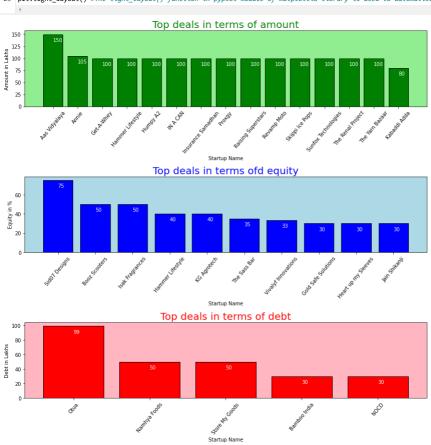
#### **Total Debt Investment by Sharks**

## Top Investors



## How many stratups accepted Debt

```
In [4]: 1 print(' Deal in which debt accepted:', '\n', '-'*80, '\n', df[['Startup Name', "Total Deal Amount", "Total Deal Equity", "Total Deal Debt"]].loc[df["Total Deal Debt"]]
        Deal in which debt accepted:
                8
43
                                          50.0
1.0
40.0
                                                                             30.0
99.0
25.0
        45
55
61
                                                              3.5
               Bamboo India
            Otua
The State Plate
                                                             3.0
75.0
        65
              Sid07 Designs
                                          25.0
                                                                              22.0
       71
76
119
            Namhya Foods
KG Agrotech
Store My Goods
                                          50.0
                                                              4.0
                                                                              50.0
```



Overview of Sharks Investment in terms of Amount, Equity and Debt

