import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings('ignore')

In [2]:

data = pd.read\_csv("Shark\_Tank\_India\_Season\_1.csv")

In [3]:

data

## Out[3]:

	episode_number	startup_number	brand_name	description	deal_offered	startup_ask_amo
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	
116	35	117	Elcare India	Carenting for Elders	0	
117	36	118	Sneakare	Shoe care and storage solutions	1	
118	36	119	French Crown	Clothing Industry	0	
119	36	120	Store My Goods	Storage solutions	1	
120	36	121	Devnagri	Translation platform	0	
121 rows × 32 columns						

In [4]:

data.head()

## Out[4]:

	episode_number	startup_number	brand_name	description	deal_offered	startup_ask_amour
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 rows × 32 columns						

In [5]:

data.tail()

Out[5]:

	episode_number	startup_number	brand_name	description	deal_offered	startup_ask_amou
116	35	117	Elcare India	Carenting for Elders	0	
117	36	118	Sneakare	Shoe care and storage solutions	1	
118	36	119	French Crown	Clothing Industry	0	
119	36	120	Store My Goods	Storage solutions	1	
120	36	121	Devnagri	Translation platform	0	
5 rows × 32 columns						
4						<b>&gt;</b>

d',

dtype='object')

'anupam\_present', 'anupam\_invested', 'ashneer\_present',
'ashneer\_invested', 'ghazal\_present', 'ghazal\_invested',

'namita\_present', 'namita\_invested', 'peyush\_present',
'peyush\_invested', 'vineeta\_present', 'vineeta\_invested',
'sharks\_offering', 'amount\_per\_shark', 'equity\_per\_shark'],

In [8]: ▶

```
data.info()
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 121 entries, 0 to 120
Data columns (total 32 columns):

#	Column	Non-Null Count	Dtype 		
0	episode_number	121 non-null	int64		
1	startup_number	121 non-null	int64		
2	brand_name	121 non-null	object		
3	description	121 non-null	object		
4	deal_offered	121 non-null	int64		
5	startup_ask_amount_lakhs	121 non-null	float64		
6	startup_ask_percentage	121 non-null	float64		
7	startup_ask_valuation	121 non-null	float64		
8	deal_amount_lakhs	121 non-null	float64		
9	deal_equity	121 non-null	float64		
10	deal_valuation	121 non-null	float64		
11	loan_element_present	121 non-null	int64		
12	loan_amount	121 non-null	int64		
13	rannvijay_present	121 non-null	int64		
14	abish_present	121 non-null	int64		
15	aman_present	121 non-null	int64		
16	aman_invested	121 non-null	int64		
17	anupam_present	121 non-null	int64		
18	anupam_invested	121 non-null	int64		
19	ashneer_present	121 non-null	int64		
20	ashneer_invested	121 non-null	int64		
21	ghazal_present	121 non-null	int64		
22	ghazal_invested	121 non-null	int64		
23	namita_present	121 non-null	int64		
24	namita_invested	121 non-null	int64		
25	peyush_present	121 non-null	int64		
26	peyush_invested	121 non-null	int64		
27	vineeta_present	121 non-null	int64		
28	<pre>vineeta_invested</pre>	121 non-null	int64		
29	sharks_offering	121 non-null	int64		
30	amount_per_shark	121 non-null	float64		
31	equity_per_shark	121 non-null	float64		
dtype	es: float64(8), int64(22),	object(2)			

dtypes: float64(8), int64(22), object(2)

memory usage: 30.4+ KB

In [9]: ▶

data.describe()

# Out[9]:

	episode_number	startup_number	deal_offered	startup_ask_amount_lakhs	startup_ask_pe	
count	121.000000	121.000000	121.000000	121.000000	12	
mean	19.305785	61.000000	0.561983	312.338851		
std	10.375326	35.073732	0.498206	2721.640471		
min	1.000000	1.000000	0.000000	0.001010		
25%	11.000000	31.000000	0.000000	45.000000		
50%	19.000000	61.000000	1.000000	50.000000		
75%	28.000000	91.000000	1.000000	80.000000		
max	36.000000	121.000000	1.000000	30000.000000	2	
8 rows × 30 columns						

In [10]: ▶

```
data.isnull().sum()
```

## Out[10]:

episode\_number 0 startup\_number 0 brand\_name 0 description 0 deal offered 0 startup\_ask\_amount\_lakhs 0 startup\_ask\_percentage 0 startup\_ask\_valuation 0 deal\_amount\_lakhs 0 0 deal\_equity deal valuation 0 loan\_element\_present 0 loan\_amount 0 rannvijay\_present 0 0 abish\_present 0 aman\_present 0 aman\_invested anupam\_present 0 anupam\_invested 0 ashneer\_present 0 0 ashneer\_invested ghazal\_present 0 ghazal\_invested 0 namita\_present 0 0 namita\_invested peyush\_present 0 peyush\_invested 0 0 vineeta\_present vineeta invested 0 sharks\_offering 0 amount\_per\_shark 0 0 equity\_per\_shark dtype: int64

In [11]: ▶

```
data['deal_offered'].value_counts()
```

### Out[11]:

68
 53

Name: deal\_offered, dtype: int64

```
H
In [15]:
data['aman_present'].value_counts()
Out[15]:
1
     102
      19
Name: aman_present, dtype: int64
In [16]:
                                                                                         H
data['anupam_present'].value_counts()
Out[16]:
     121
Name: anupam_present, dtype: int64
                                                                                         H
In [17]:
data['ashneer_present'].value_counts()
Out[17]:
     98
     23
Name: ashneer_present, dtype: int64
In [20]:
                                                                                         H
data['ghazal_present'].value_counts()
Out[20]:
     95
     26
Name: ghazal_present, dtype: int64
In [21]:
data['peyush_present'].value_counts()
Out[21]:
     92
     29
Name: peyush_present, dtype: int64
```

```
In [22]: ▶
```

```
data['namita_present'].value_counts()
```

#### Out[22]:

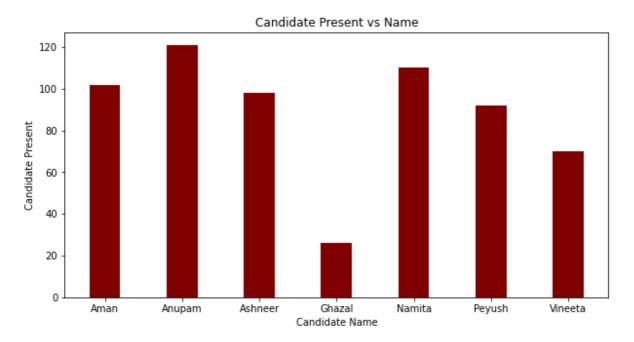
1 110 0 11

Name: namita\_present, dtype: int64

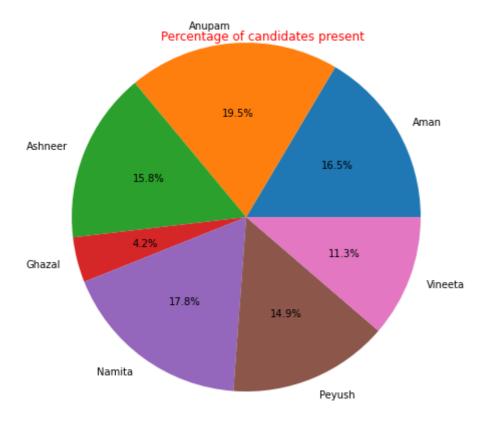
```
In [23]: ▶
```

```
aman_present = len(data[data.aman_present == 1])
anupam_present = len(data[data.anupam_present == 1])
ashneer_present = len(data[data.ashneer_present == 1])
ghazal_present = len(data[data.ghazal_present == 1])
namita_present = len(data[data.namita_present == 1])
peyush_present = len(data[data.peyush_present == 1])
vineeta_present = len(data[data.vineeta_present == 1])
```

```
In [28]:
```



In [32]: ▶



```
data['aman_invested'].value_counts()

Out[33]:
0    92
1    29
Name: aman_invested, dtype: int64

In [34]:

data['anupam_invested'].value_counts()
```

### Out[34]:

In [33]:

97124

Name: anupam\_invested, dtype: int64

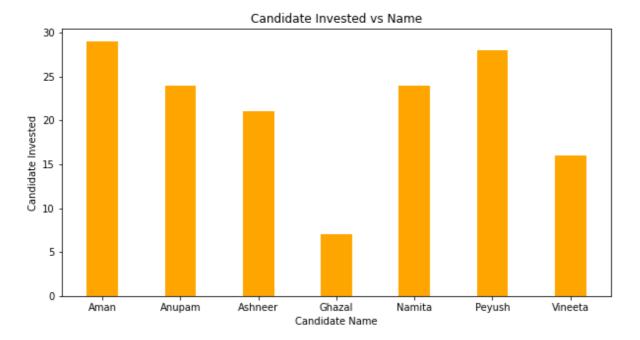
M

```
H
In [35]:
data['ashneer_invested'].value_counts()
Out[35]:
     100
      21
Name: ashneer_invested, dtype: int64
In [36]:
                                                                                         H
data['ghazal_invested'].value_counts()
Out[36]:
0
     114
Name: ghazal_invested, dtype: int64
In [37]:
                                                                                         H
data['namita_invested'].value_counts()
Out[37]:
     97
     24
Name: namita_invested, dtype: int64
In [38]:
                                                                                         H
data['peyush_invested'].value_counts()
Out[38]:
     93
     28
Name: peyush_invested, dtype: int64
In [39]:
data['vineeta_invested'].value_counts()
Out[39]:
     105
      16
Name: vineeta_invested, dtype: int64
```

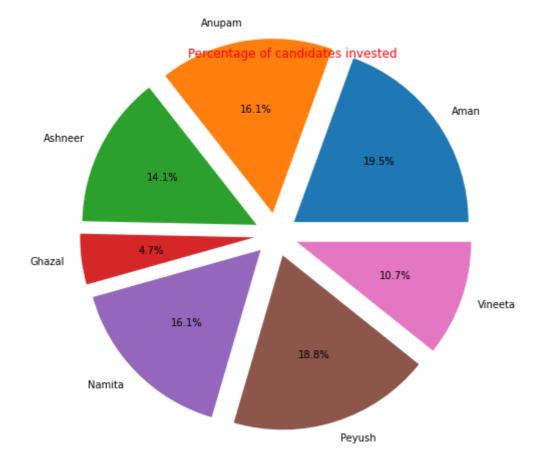
In [41]:

```
aman_invested = len(data[data.aman_invested == 1])
anupam_invested = len(data[data.anupam_invested == 1])
ashneer_invested = len(data[data.ashneer_invested == 1])
ghazal_invested = len(data[data.ghazal_invested == 1])
namita_invested = len(data[data.namita_invested == 1])
peyush_invested = len(data[data.peyush_invested == 1])
vineeta_invested = len(data[data.vineeta_invested == 1])
```

```
In [42]:
```



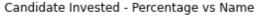
In [44]: ▶

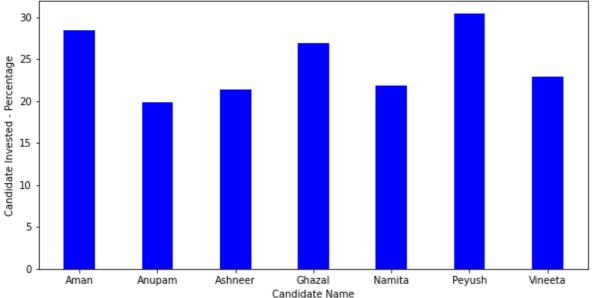


In [45]:

```
#Percent of investments
aman_percent = (aman_invested/aman_present)*100
anupam_percent = (anupam_invested/anupam_present)*100
ashneer_percent = (ashneer_invested/ashneer_present)*100
ghazal_percent = (ghazal_invested/ghazal_present)*100
namita_percent = (namita_invested/namita_present)*100
peyush_percent = (peyush_invested/peyush_present)*100
vineeta_percent = (vineeta_invested/vineeta_present)*100
```

```
In [47]:
```





In [48]: ▶

