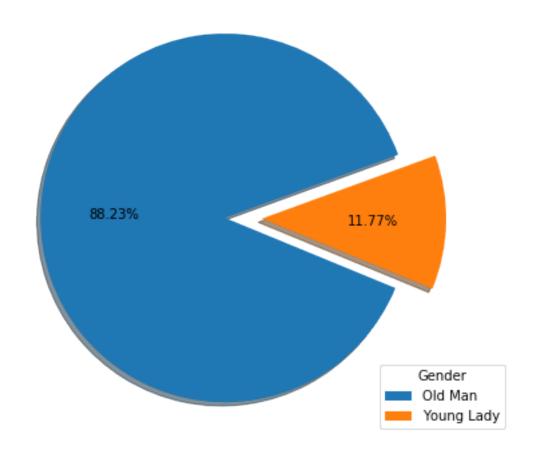
hamfest2018

October 1, 2018

```
In [1]: # Written by Chetan Mandloi (VU3ULH)
        # Importing the required libraries
        import pandas as pd
                                                    # For dataframes, reading html
        import matplotlib.pyplot as plt
                                                    # For Plotting
In [2]: #Get current Delegate list from hamfest website
        #Please use higher end number in the url in registered candidates go over 1500
        hams = pd.read_html('http://www.hamfestindia2018.com/Delegates/List?start=0&end=1500')
In [3]: #hams
In [4]: #Just formatting the dataframe properly
        hams = hams.rename(columns=hams.iloc[0])
        hams = hams.drop([0])
        #hams
In [5]: #hams['Gender']
In [6]: # Pie Chart Showing gender breakdown
        gend = hams['Gender'].value_counts()
        fig1,ax1 = plt.subplots()
        ax1.pie(gend, explode = (0,0.2), autopct='%1.2f\%',
               shadow = True, startangle = 20)
        ax1.legend(('Old Man', 'Young Lady'), title = 'Gender', loc = 'lower right', bbox_to_ancho:
        ax1.axis('equal')
        fig1.set_figheight(6)
        fig1.set_figwidth(6)
        plt.title("Hamfest 2018 Gender Breakdown", fontdict= {'fontsize': 16,
                                              'fontweight' : 5,
                                              'verticalalignment': 'baseline', 'horizontalalignme
        plt.show()
```

Hamfest 2018 Gender Breakdown



```
In [7]: # Correcting all the various conflicting state names,

# You might think why I didn't just convert everything to same case but just case corr

# would not have fixed other errors like spelling mistakes, and improper state names l

# people who made typos like tamilandu, TN, Gujrat etc

#

# NOTE SOME ENTRIES IN THE BEGINING ARE NAN. THESE ARE BEING IGNORED

# refined_hams = hams['State'].replace(["Dharwad", "Tamilnadu", "KARNATAKA", "karnataka", "ANDHRAPRADESH", "TELANGANA", "KERALA STATE", "Tamil "kerala", "tamil nadu", "KARANATAKA", "Andhraprades:

"TN", "Tamilnadu , Trichy 620004.", "ODISHA", 'MAHARA'

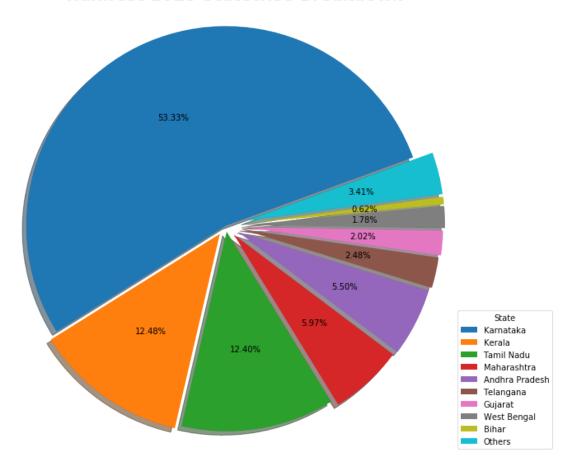
"MANGALAPURAM ROAD", "Near Kerala Govt. NGO Quarte:
"Near Grindwell Norton", "telangana", 'BIHAR', "Mahara'
"Near Grindwell Norton", "telangana", 'BIHAR', "Mahara'
"Karnataka", "Tamil Nadu", "Karnataka", "Karnataka", "Kerala", "And
```

"Tamil Nadu", "Telangana", "Gujarat", "Gujarat", "Maharastra", "West "Andhra Pradesh", "Telangana", "Kerala", "Tamil Nadu", "Maharastra",

```
"Tamil Nadu", "Tamil Nadu", "Odisha", "Maharastra", "Andhra Pradesh
                                "Kerala", "Kerala", 'Uttar Pradesh', "Delhi", "Gujarat",
                                "Karnataka", "Telangana", 'Bihar', "Maharastra", "Delhi", "Maharasht
                               ])
        #refined_hams
In [8]: states = refined_hams.value_counts()
        states
Out[8]: Karnataka
                           688
        Kerala
                           161
        Tamil Nadu
                           160
        Maharashtra
                            77
        Andhra Pradesh
                            71
        Telangana
                            32
                            26
        Gujarat
        West Bengal
                            23
        Bihar
                             8
        USA
                             7
        Uttar Pradesh
                             6
        Rajasthan
                             5
        Puducherry
                             3
        Delhi
                             3
                             3
        Jharkhand
                             3
        Assam
                             2
        Goa
        Odisha
                             2
        ONTARIO
                             2
                             1
        Haryana
        Manipur
                             1
        Chicago
                             1
        Doha
        Tripura
                             1
        Madhya Pradesh
                             1
        Chhattisgarh
                             1
        India
                             1
        Name: State, dtype: int64
In [9]: major_states = states[:9]
        major_states["Others"] = states[9:].sum()
        #major_states.index
In [10]: # Pie Chart Showing statewide distribution
         fig1,ax1 = plt.subplots()
         ax1.pie(major_states, explode = (0,0.05,0.03,0.06,0.07,0.08,0.09,0.1,0.1,0.1), autopo
                shadow = True, startangle = 20)
         ax1.legend(major_states.index,title ='State', loc = 'lower right',bbox_to_anchor = (1
         ax1.axis('equal')
```

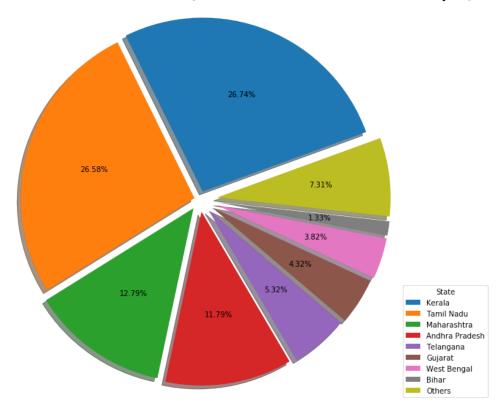
"Kerala", "Tamil Nadu", "Karnataka", "Andhra Pradesh", "Tamil Nadu

Hamfest 2018 Statewise Breakdown



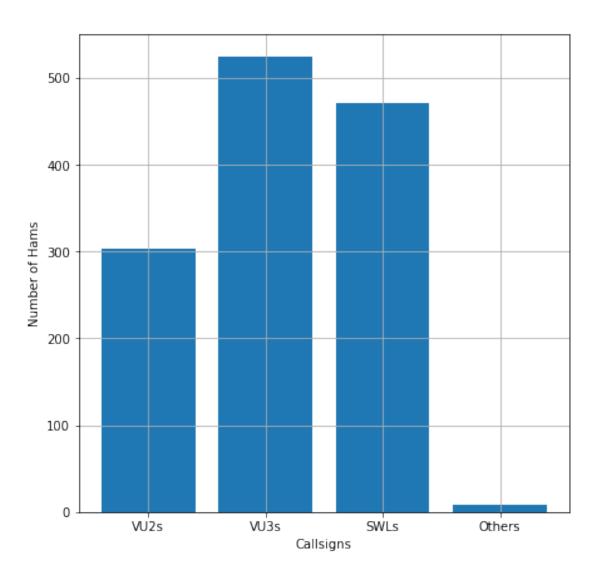
plt.show()

Hamfest 2018 Outside Visitors(Karnataka removed from the pie)



if "VU2" in i:

```
vu2 = vu2 + 1
             elif "VU3" in i:
                 vu3 = vu3 + 1
             elif "SWL" in i or "SLW" in i or "SWK" in i or "SW" == i:
                 SWL = SWL + 1
         print("Hams with VU2 Callsigns: ", vu2,"\nHams with VU3 Callsigns: ",vu3,"\nShort
               SWL, "\nHams with Other Callsigns: ",len(calls)-vu2-vu3-SWL)
Hams with VU2 Callsigns:
                            304
Hams with VU3 Callsigns:
                            524
Shortwave listners(SWLs):
                            471
Hams with Other Callsigns: 9
In [16]: fig1,ax1 = plt.subplots()
         ax1.bar(["VU2s","VU3s","SWLs","Others"],[vu2,vu3,SWL,len(calls)-vu2-vu3-SWL])
        plt.xlabel("Callsigns")
        plt.ylabel("Number of Hams")
        fig1.set_figheight(7)
         fig1.set_figwidth(7)
        plt.grid(True)
        plt.show()
```



 Sengaluru
 399

 Chennai
 42

 Mumbai
 32

 Hyderabad
 27

 Thiruvananthapuram
 24

 Kolkata
 17

 Pune
 14

Coimbatore	13
VIJAYAWADA	13
NELLORE	10
WEST GODAVARI	9
VELLORE	8
KOLLAM	8
SALEM	7
TUMKUR	7
Kalpetta	7
MADURAI	7
USA	7
Cochin	6
Patna	6
Name: City, dtype:	int64