chola-batch-2-application-details

October 26, 2023

Senchola Batch 2 Application Details

Import Data from excel file

```
[36]: import numpy as np
      import pandas as pd
      import seaborn as sns
      import matplotlib.pyplot as plt
      from wordcloud import WordCloud
[37]: df=pd.read_excel('/content/Batch-2 Senchola application details - Data cleaned.

¬xlsx')
[38]: df.head()
[38]:
                      Timestamp Are you open to learn ? \
      0 2023-05-30 18:51:45.391
                                                     Yes
      1 2023-05-30 18:56:19.324
                                                     Yes
      2 2023-05-30 18:57:32.362
                                                     Yes
      3 2023-05-30 19:00:37.964
                                                     Yes
      4 2023-05-30 19:11:38.697
                                                     Yes
                       Why you want to join this program ? Do you have laptop
      0
                                       To upgrade my skills
                                                                             Yes
                                                                             Yes
      1
                                   Eager to learn and work.
      2 I want to need and explore the real-time exper...
                                                                           Yes
      3 I am interested in joining this program becaus...
                                                                           Yes
      4 To learn new technology and explore my knowled...
                                                                           Yes
                   Name
                                                                      Address \
             Aishwarya G
                         1/104, Reddiyar strt, alathudaiyan patty, Thuraiy...
      0
      1
                  Vidhya
                                        Mandabam street, rayagiri, thenkasi.
      2
                 Ashen A 212/2 Sinthannagar 1st Street, Krishnampalayam,...
               Azhagar M 4/498, South Street, vaippam, Ariyalur Distric...
        Keerthivaasan M 43/d Chinnaswamy naidu street kadathur, Dharmap...
          Qualification
                                                                  Degree \
      0
            Engineering B.E Electronics and communication engineering
```

```
2 Arts & Science
                                                            B.A English
      3 Arts & Science
                                                                     BCA
      4 Arts & Science
                                                   M.sc.Data Analytics
        Pass-out Year
                                                             College Name \
      0
                 2021
                       Dhanalakshmi srinivasan engineering college, pe...
                 2023
      1
                                                    The American College
      2
                 2021
                                          Nandha Arts And Science College
      3
                 2023
                      Thanthai Hans Roever college of arts and scien...
      4
                 2023
                                                   Bharathiar university.
                City
                           State What you wan to learn? Technical Feeback by \
      0
          Perambalur
                       Tamilnadu
                                     Frontend Development
                                                                        Vignesh
            Madurai
      1
                      Tamilnadu
                                             UI/UX Design
                                                                        Vignesh
      2
               Erode
                       Tamilnadu
                                      Backend Development
                                                                        Vignesh
      3
            Ariyalur
                       Tamilnadu
                                      Backend Development
                                                                        Vignesh
         Dharmapuri
                      Tamil Nadu
                                           Cybersecurity
                                                                        Vignesh
                                         Technical Comments
      0
      1
                                               Not pic call
      2
                                               Not pic call
      3 He is interested in Python Backend Developer, ...
       He is interested in Cyber security and did a c...
                                                HR Comments
      0
                               she wants to gain knowledge
      1
                                                no response
      2
                                                no response
      3
        8870956961 please add his no.
                                          on the whatsap...
         9894233004 add his no. in
                                    whatsapp group, he ...
[39]: df.info()
     <class 'pandas.core.frame.DataFrame'>
     RangeIndex: 387 entries, 0 to 386
     Data columns (total 16 columns):
                                                Non-Null Count Dtype
          Column
          _____
                                                 _____
                                                387 non-null
                                                                 datetime64[ns]
      0
          Timestamp
      1
          Are you open to learn ?
                                                387 non-null
                                                                 object
      2
          Why you want to join this program ?
                                                387 non-null
                                                                 object
      3
          Do you have laptop
                                                387 non-null
                                                                 object
      4
          Name
                                                387 non-null
                                                                 object
      5
          Address
                                                387 non-null
                                                                 object
          Qualification
                                                387 non-null
                                                                 object
```

BCA

Others

1

```
Pass-out Year
                                                387 non-null
                                                                 object
      9
          College Name
                                                387 non-null
                                                                 object
      10 City
                                                387 non-null
                                                                 object
      11 State
                                                387 non-null
                                                                object
      12 What you wan to learn?
                                                387 non-null
                                                                object
      13 Technical Feeback by
                                                322 non-null
                                                                object
      14 Technical Comments
                                                322 non-null
                                                                object
      15 HR Comments
                                                60 non-null
                                                                 object
     dtypes: datetime64[ns](1), object(15)
     memory usage: 48.5+ KB
[40]: df.isnull().sum()
[40]: Timestamp
                                                0
      Are you open to learn ?
                                                0
      Why you want to join this program ?
                                                0
      Do you have laptop
                                                0
      Name
                                                0
      Address
                                                0
                                                0
      Qualification
                                                0
      Degree
     Pass-out Year
                                                0
                                                0
      College Name
      City
                                                0
      State
                                                0
     What you wan to learn ?
                                                0
      Technical Feeback by
                                               65
      Technical Comments
                                               65
      HR Comments
                                              327
      dtype: int64
[41]: df.columns
[41]: Index(['Timestamp', 'Are you open to learn ?',
             'Why you want to join this program ?', 'Do you have laptop ', 'Name ',
             'Address', 'Qualification', 'Degree', 'Pass-out Year', 'College Name',
             'City', 'State', 'What you wan to learn ?', 'Technical Feeback by',
             'Technical Comments', 'HR Comments'],
            dtype='object')
     0.1 Insights
     1. Total number of Applicants
[42]: total_applicants=df['Name '].count()
      print("Total number of Applicants:" ,total_applicants)
```

387 non-null

object

7

Degree

Total number of Applicants: 387

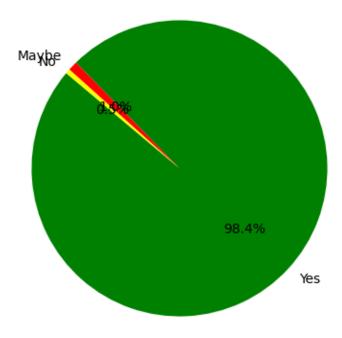
2.Gender classification

Male 298 Female 89

Name: Gender, dtype: int64

3.Openness to learn

Openness to Learn



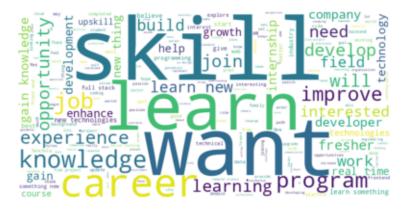
4. Motivation for Join

```
[45]: text_data = ' '.join(df['Why you want to join this program ?'])

# Create a WordCloud object
wordcloud = WordCloud(width=800, height=400, background_color='white').

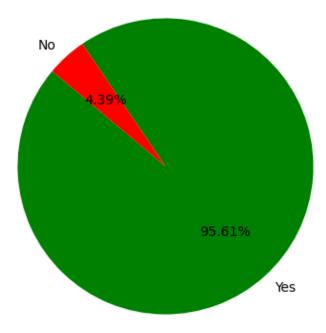
generate(text_data)

# Display the WordCloud image
plt.figure(figsize=(5, 5))
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis('off')
plt.show()
```

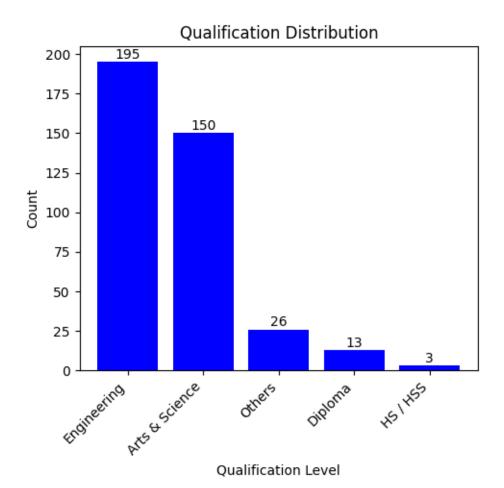


5.Laptop Availability

Laptop Availability



6. Qualification Distribution



7.Popular Degree

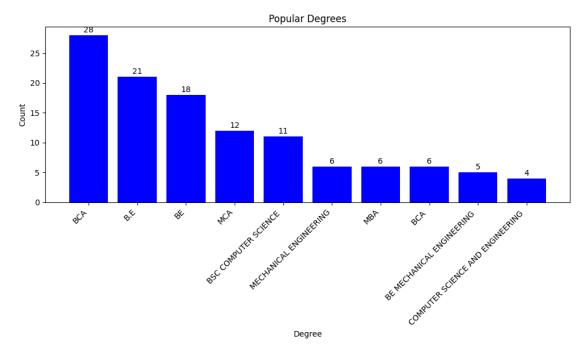
```
[54]: degree_distribution = df['Degree'].str.upper().value_counts()

top_degrees = degree_distribution.head(10)

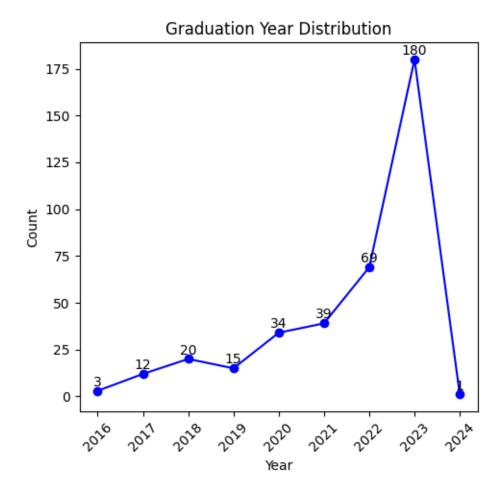
plt.figure(figsize=(5,5))
plt.bar(top_degrees.index, top_degrees.values, color='blue')
plt.title('Popular Degrees')
plt.xlabel('Degree')
plt.ylabel('Count')
plt.xticks(rotation=45, ha="right")

for i, value in enumerate(top_degrees.values):
    plt.text(i, value + 0.2, str(value), ha='center', va='bottom')
```

```
plt.tight_layout()
plt.show()
```



8. Gradution Year



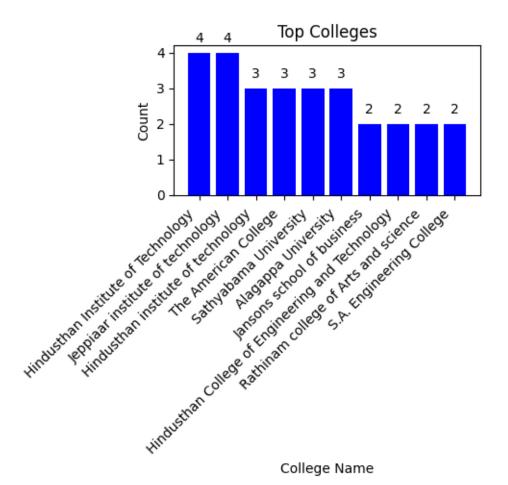
9.Top Colleges

```
[59]: top_colleges = df['College Name'].value_counts().head(10)

plt.figure(figsize=(5,5))
plt.bar(top_colleges.index, top_colleges.values, color='blue')
plt.title('Top Colleges')
plt.xlabel('College Name')
plt.ylabel('Count')
plt.xticks(rotation=45, ha="right")

for i, value in enumerate(top_colleges.values):
    plt.text(i, value + 0.2, str(value), ha='center', va='bottom')

plt.tight_layout()
plt.show()
```

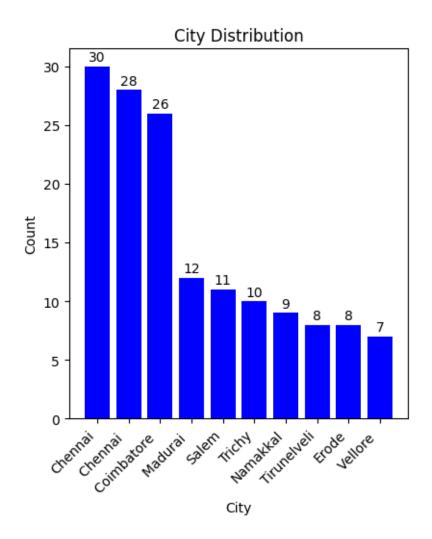


10.City Distribution

```
[66]: city_distribution = df['City'].value_counts().head(10)

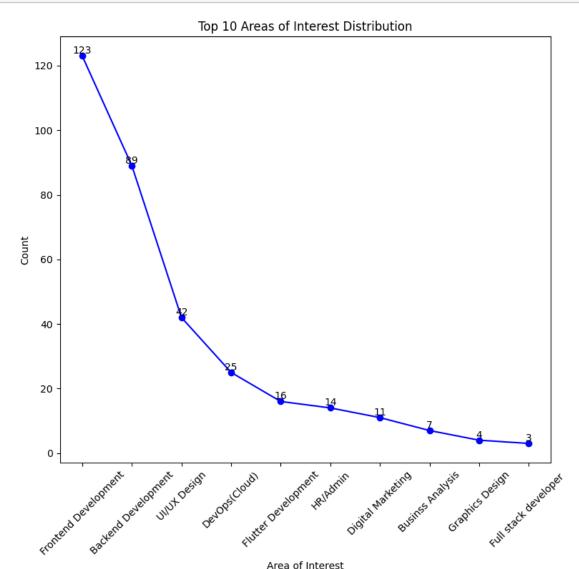
plt.figure(figsize=(10,5))
plt.subplot(121)
plt.bar(city_distribution.index, city_distribution.values, color='blue')
plt.title('City_Distribution')
plt.xlabel('City')
plt.ylabel('Count')
plt.ylabel('Count')
plt.xticks(rotation=45, ha="right")

for i, value in enumerate(city_distribution.values):
    plt.text(i, value + 0.2, str(value), ha='center', va='bottom')
```



11. Areas of Interest

```
plt.tight_layout()
plt.show()
```



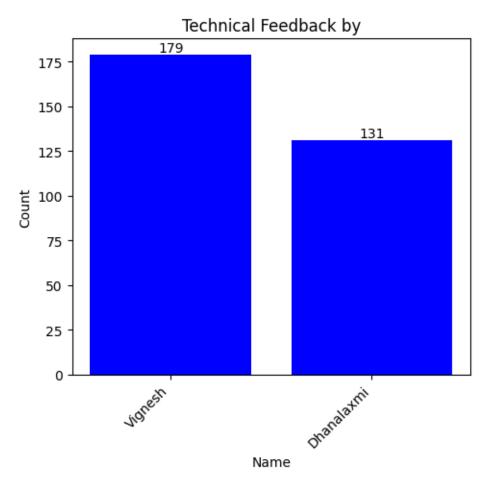
12.Tecnical Feedback by

```
[86]: feedback_counts = df['Technical Feeback by'].value_counts().head(10)
      plt.figure(figsize=(5,5))
      plt.bar(feedback_counts.index, feedback_counts.values, color='blue')
      plt.title('Technical Feedback by')
      plt.xlabel('Name')
      plt.ylabel('Count')
      plt.xticks(rotation=45, ha="right")
```

Area of Interest

```
for i, value in enumerate(feedback_counts.values):
    plt.text(i, value + 0.2, str(value), ha='center', va='bottom')

plt.tight_layout()
plt.show()
```

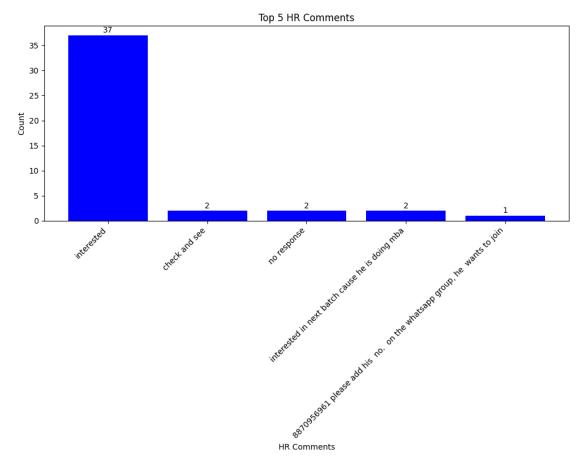


13. HR Comments

```
plt.xticks(rotation=45, ha="right")

for i, value in enumerate(hr_comments_count.values):
    plt.text(i, value + 0.2, str(value), ha='center', va='bottom')

plt.tight_layout()
plt.show()
```



Thank You!!