senchola-task-4-batch-1-details

November 6, 2023

0.1 Sechola Batch 1 Applicant Details

Importing dataset from excel

```
[54]: import numpy as np
      import pandas as pd
      import seaborn as sns
      import matplotlib.pyplot as plt
      from wordcloud import WordCloud
[55]: df_1=pd.read_excel('/content/batch 1 application.xlsx', sheet_name='Formu
       →Responses 1')
      df_2= pd.read_excel('/content/batch 1 application.xlsx', sheet_name='Selected')
[56]: df_1.head()
[56]:
              Date
                        Time Are you open to learn ? \
      0 2023-04-04 14:41:10
                                                  Yes
      1 2023-04-04 18:32:40
                                                  Yes
      2 2023-04-04 18:02:51
                                                  Yes
      3 2023-04-04 17:03:17
                                                  Yes
      4 2023-05-09 08:22:07
                                                  Yes
                       Why you want to join this program ? Do you have laptop
        As a non IT graduate, I want to start my career...
                                                                           No
        Learn new technologies to upgrade my skills an...
                                                                          Yes
      1
                                   To enhance my knowledge
      2
                                                                            Yes
      3
                        To learn the technology with team
                                                                            Yes
      4
                                    Dream and Interesting
                                                                            Yes
                 Name
                        Gender
                                                                           Address
      O HARSHANI BALU
                        Female
                                                     No.9 collectrate Kanchipuram
      1
        SUBHASHINI .S
                        Female
                                             2/54 ,South Street , Sirangudi South
      2
        JAYAPRAKASH V
                          Male
                                7/138-1 Second floor,Old arokya hospital,sanka...
      3
           UGENDHAR .U
                          Male
                                Pudusampalli near vazga valamudan mettur dam s...
            KARTHIK .S
                          Male
                                                                                NaN
          Qualification Degree
                                                                    Branch \
```

```
0
            Engineering
                           B.E
                                                        Civil Engineering
      1
                           B.E
                                             Computer Science Engineering
            Engineering
      2
            Engineering
                           B.E
                               Electronics and Communication Engineering
      3
            Engineering
                           B.E
                                                   Infromation Technology
         Arts & Science
                           BCA
                                        Bachelors of Computer Application
         Pass-out Year
                                                          College Name
                                         A.V.C COLLEGE OF ENGINEERING
      0
                  2021
                  2022
                        AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
      1
      2
                  2023
                           ADHI COLLEGE OF ENGINEERING AND TECHNOLOGY
                  2023
                                    ADHIYAMAAN COLLEGE OF ENGINEERING
      3
                  2023
                                                 ALAGAPPA UNIVERSITY
                                                                     Comments
                   City
                             State What you wan to learn ?
         MAYILADUTHURAI
                         Tamilnadu
                                              Data Analyst
                                                                     Not pick
      0
      1
                CHENNAI
                         Tamilnadu
                                              UI/UX Design
                                                                   Not Pickup
      2
        TIRUVANNAMALAI
                         Tamilnadu
                                    Full Stack Development
                                                             Data Not Entered
      3
                         Tamilnadu
                                              UI/UX Design
                                                            Data Not Entered
                  HOSUR
      4
            TIRUNELVELI
                         Tamilnadu Full Stack Development
                                                             Data Not Entered
        Confidence Rating
                                     Status Status checked
                                              Not Selected
      O Data Not Entered Data Not Entered
      1 Data Not Entered Data Not Entered
                                              Not Selected
      2 Data Not Entered Data Not Entered
                                            Not Selected
      3 Data Not Entered
                           Data Not Entered
                                              Not Selected
      4 Data Not Entered Data Not Entered
                                              Not Selected
[57]: df 1.info()
      df_2.info()
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 97 entries, 0 to 96

Data columns (total 20 columns):

Column Non-Null Count Dtype ____ 0 datetime64[ns] Date 97 non-null 1 Time 97 non-null object 2 Are you open to learn ? 97 non-null object 3 Why you want to join this program ? 97 non-null object 4 Do you have laptop 97 non-null object 5 Name 97 non-null object 6 Gender 97 non-null object 7 Address 94 non-null object 8 Qualification 97 non-null object 9 Degree 97 non-null object Branch 97 non-null object 11 Pass-out Year 97 non-null int64

```
12 College Name
                                                97 non-null
                                                                object
                                                97 non-null
      13 City
                                                                object
      14 State
                                                97 non-null
                                                                object
      15 What you wan to learn ?
                                                97 non-null
                                                                object
                                                97 non-null
      16 Comments
                                                                object
      17 Confidence Rating
                                                97 non-null
                                                                object
      18 Status
                                                97 non-null
                                                                object
      19 Status checked
                                                97 non-null
                                                                object
     dtypes: datetime64[ns](1), int64(1), object(18)
     memory usage: 15.3+ KB
     <class 'pandas.core.frame.DataFrame'>
     RangeIndex: 17 entries, 0 to 16
     Data columns (total 20 columns):
      #
          Column
                                                  Non-Null Count
                                                                  Dtype
     ___
          ____
                                                  _____
      0
          Date
                                                  17 non-null
                                                                  datetime64[ns]
      1
          Time
                                                  17 non-null
                                                                  object
      2
          Are you open to learn ?
                                                  17 non-null
                                                                  object
      3
          Why you want to join this program ?
                                                  17 non-null
                                                                  object
      4
          Why you want to join this program ?.1
                                                  17 non-null
                                                                  object
      5
          Name
                                                  17 non-null
                                                                  object
      6
          Gender
                                                  17 non-null
                                                                  object
          Address
      7
                                                  17 non-null
                                                                  object
          Qualification
                                                  17 non-null
      8
                                                                  object
      9
          Degree
                                                  17 non-null
                                                                  object
      10 Branch
                                                  17 non-null
                                                                  object
      11 Pass-out Year
                                                  17 non-null
                                                                  int64
      12
         College Name
                                                  17 non-null
                                                                  object
      13 City
                                                  17 non-null
                                                                  object
      14 State
                                                  17 non-null
                                                                  object
         What you wan to learn?
                                                  17 non-null
                                                                  object
      16 Comments
                                                  17 non-null
                                                                  object
      17 Confidence Rating
                                                  17 non-null
                                                                  int64
      18 Confidence Rating out of
                                                  17 non-null
                                                                  int64
      19 Status
                                                  17 non-null
                                                                  object
     dtypes: datetime64[ns](1), int64(3), object(16)
     memory usage: 2.8+ KB
[58]: df 1.isnull().sum()
      df_2.isnull().sum()
[58]: Date
                                               0
      Time
                                               0
      Are you open to learn ?
                                               0
      Why you want to join this program ?
                                               0
      Why you want to join this program ?.1
                                               0
                                               0
      Name
```

```
Gender
                                                0
                                                0
      Address
      Qualification
                                                0
      Degree
      Branch
                                                0
      Pass-out Year
                                                0
      College Name
                                                0
      City
                                                0
      State
                                                0
      What you wan to learn ?
                                                0
      Comments
                                                0
      Confidence Rating
                                                0
      Confidence Rating out of
                                                0
      Status
                                                0
      dtype: int64
[59]: df_1.columns
[59]: Index(['Date', 'Time', 'Are you open to learn ?',
             'Why you want to join this program ?', 'Do you have laptop ', 'Name ',
             'Gender', 'Address', 'Qualification', 'Degree', 'Branch',
             'Pass-out Year', 'College Name', 'City', 'State',
             'What you wan to learn ?', 'Comments', 'Confidence Rating', 'Status',
             'Status checked'],
            dtype='object')
     0.2 Insights
     1) Total Applicants & Shortlisted
[60]: Total_Applicants=df_1['Name '].value_counts().sum()
      print('Total Applicants in Sechola Batch 1 Internship is', Total Applicants)
      Total_Shortlisted=df_2['Name '].value_counts().sum()
      print('Total Shortlisted in Sechola Batch 1 Internship is', Total_Shortlisted)
     Total Applicants in Sechola Batch 1 Internship is 97
     Total Shortlisted in Sechola Batch 1 Internship is 17
     2) Total Colleges for applicants & shortlisted
[61]: Total Colleges 1=df 1['College Name'].nunique()
      print('Total Colleges for applicants in Sechola Batch 1 Internship is', u
       →Total_Colleges_1)
```

print('Total Colleges for shortlisted in Sechola Batch 1 Internship is', u

Total_Colleges_2=df_2['College Name'].nunique()

→Total_Colleges_2)

Total Colleges for applicants in Sechola Batch 1 Internship is 76 Total Colleges for shortlisted in Sechola Batch 1 Internship is 17

3) Total Cities for applicants & shortlisted

```
[62]: Total_Cities_1=df_1['City'].nunique()
print('Total Cities for applicants in Sechola Batch 1 Internship is',

→Total_Cities_1)

Total_Cities_2=df_2['City'].nunique()
print('Total Cities for shortlisted in Sechola Batch 1 Internship is',

→Total_Cities_2)
```

Total Cities for applicants in Sechola Batch 1 Internship is 33 Total Cities for shortlisted in Sechola Batch 1 Internship is 8

4) Applicants & Shortlisted Applicants by gender

```
[63]: gender_counts_1 = df_1['Gender'].value_counts()
gender_counts_2 = df_2['Gender'].value_counts()

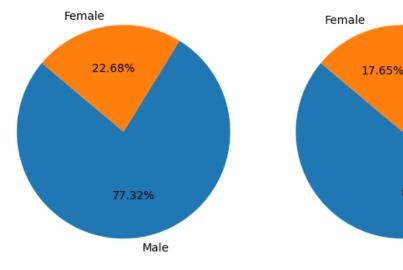
fig, (ax1, ax2) = plt.subplots(1, 2, figsize=(7, 5))
ax1.pie(gender_counts_1, labels=gender_counts_1.index, autopct='%1.2f%%',ustartangle=140,)
ax1.set_title('Applicants Gender Classification')
ax2.pie(gender_counts_2, labels=gender_counts_2.index, autopct='%1.2f%%',ustartangle=140,)
ax2.set_title('Shortlisted Applicants by Gender')
plt.tight_layout()
plt.show()
```

Applicants Gender Classification

Shortlisted Applicants by Gender

82.35%

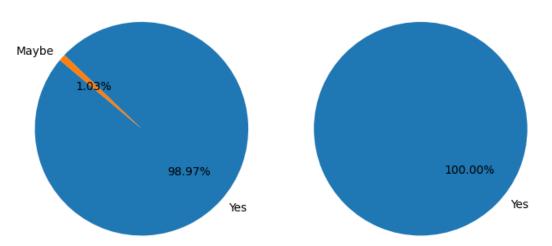
Male



4) Applicants & Shortlisted Applicants by Openness to learn

Applicants Openness to Learn

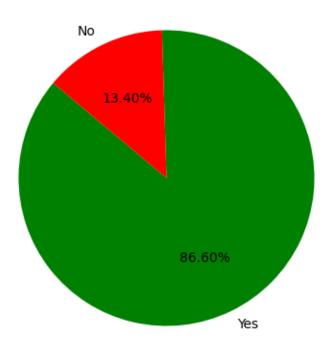
Shortlisted Openness to Learn



5)Laptop Availability

plt.show()

Laptop Availability

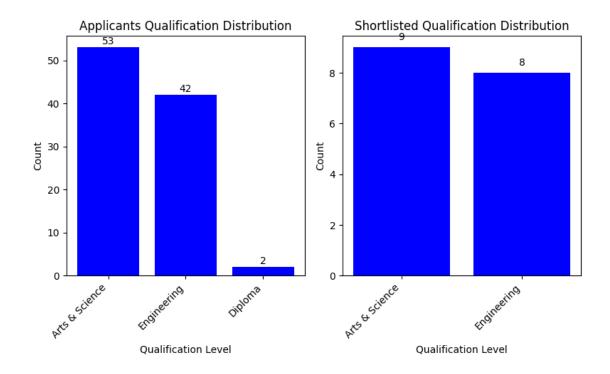


6) Motivation for joining



7) Applicants & Shortlisted Applicants by Qualification

```
[67]: qualification distribution 1 = df 1['Qualification'].value counts()
      qualification_distribution_2 = df_2['Qualification'].value_counts()
      fig, (ax1, ax2) = plt.subplots(1, 2, figsize=(8, 5))
      ax1.bar(qualification_distribution_1.index, qualification_distribution_1.
       ⇔values, color='blue')
      ax1.set_title('Applicants Qualification Distribution')
      ax1.set_xlabel('Qualification Level')
      ax1.set_ylabel('Count')
      ax1.set_xticks(qualification_distribution_1.index)
      ax1.set_xticklabels(qualification_distribution_1.index, rotation=45, ha='right')
      for i, value in enumerate(qualification_distribution_1.values):
          ax1.text(i, value + 0.2, str(value), ha='center', va='bottom')
      ax2.bar(qualification_distribution_2.index, qualification_distribution_2.
       ⇔values, color='blue')
      ax2.set_title('Shortlisted Qualification Distribution')
      ax2.set xlabel('Qualification Level')
      ax2.set_ylabel('Count')
      ax2.set_xticks(qualification_distribution_2.index)
      ax2.set_xticklabels(qualification_distribution_2.index, rotation=45, ha='right')
      for i, value in enumerate(qualification_distribution_2.values):
          ax2.text(i, value + 0.2, str(value), ha='center', va='bottom')
      plt.tight_layout()
      plt.show()
```

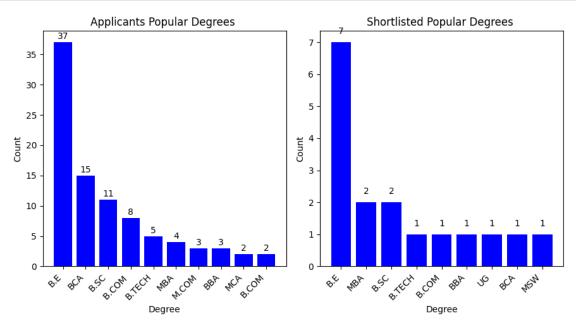


8) Applicants & Shortlisted Applicants by Degree

```
[68]: degree_distribution_1 = df_1['Degree'].str.upper().value_counts()
      top_degrees_1 = degree_distribution_1.head(10)
      fig, (ax1, ax2) = plt.subplots(1, 2, figsize=(9, 5))
      ax1.bar(top_degrees_1.index, top_degrees_1.values, color='blue')
      ax1.set_title('Applicants Popular Degrees ')
      ax1.set_xlabel('Degree')
      ax1.set_ylabel('Count')
      ax1.set_xticks(top_degrees_1.index)
      ax1.set_xticklabels(top_degrees_1.index, rotation=45, ha='right')
      for i, value in enumerate(top_degrees_1.values):
          ax1.text(i, value + 0.2, str(value), ha='center', va='bottom')
      degree_distribution_2 = df_2['Degree'].str.upper().value_counts()
      top_degrees_2 = degree_distribution_2.head(10)
      ax2.bar(top_degrees_2.index, top_degrees_2.values, color='blue')
      ax2.set title('Shortlisted Popular Degrees ')
      ax2.set_xlabel('Degree')
      ax2.set_ylabel('Count')
      ax2.set_xticks(top_degrees_2.index)
      ax2.set_xticklabels(top_degrees_2.index, rotation=45, ha='right')
```

```
for i, value in enumerate(top_degrees_2.values):
    ax2.text(i, value + 0.2, str(value), ha='center', va='bottom')

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

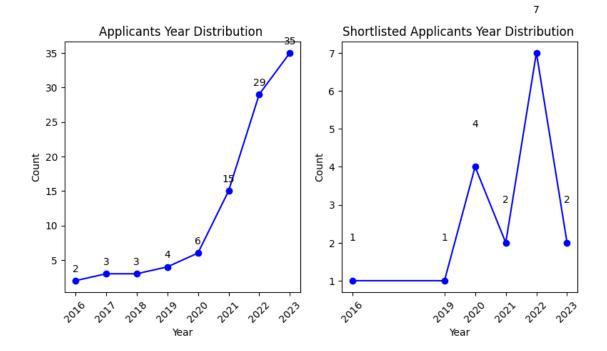


9) Applicants & Shortlisted Applicants by Pass-Out year

```
ax2.plot(pass_out_years_2.index, pass_out_years_2.values, marker='o',u
color='blue', linestyle='-')
ax2.set_title('Shortlisted Applicants Year Distribution ')
ax2.set_xlabel('Year')
ax2.set_ylabel('Count')
ax2.set_xticks(pass_out_years_2.index)
ax2.set_xticklabels(pass_out_years_2.index, rotation=45)

for i, value in enumerate(pass_out_years_2.values):
    ax2.text(pass_out_years_2.index[i], value + 1, str(value), ha='center',u
cva='bottom', fontsize=10, color='black')

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

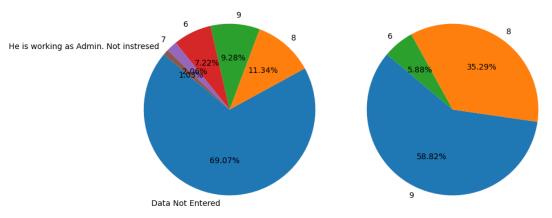


10) Confidence Rating

```
[73]: confidence_rating_1 = df_1['Confidence Rating'].value_counts()
    confidence_rating_2 = df_2['Confidence Rating'].value_counts()

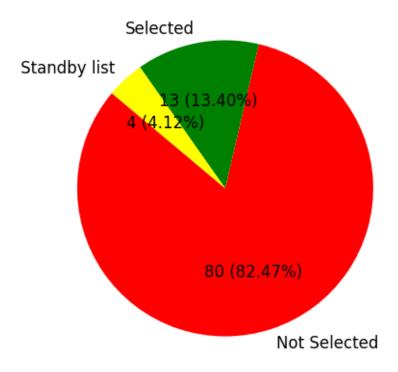
fig, (ax1, ax2) = plt.subplots(1, 2, figsize=(10, 5))
    ax1.pie(confidence_rating_1, labels=confidence_rating_1.index, autopct='%1.
    \( \times 2f\%''\), startangle=140,)
    ax1.set_title('Applicants Confidence Rating Classification')
```

Applicants Confidence Rating Classification Shortlisted Confidence Rating Classification



11) Applicant status

Applicant Status Distribution



12)Shortlisted Applicants with comments

```
[72]: selected_applicants = df_1[df_1['Status checked'] == 'Selected'][['Name ', u \ 'Comments']]

standby_applicants = df_1[df_1['Status checked'] == 'Standby list'][['Name ', u \ 'Comments']]

print('The selected applicants are:\n', selected_applicants)

print('\nThe Standby applicants are:\n', standby_applicants)
```

The selected applicants are:

	11	
	Name	Comments
6	VIDHIYA .A	Intrested in HR. One week itself she will arra
17	KARTHIKRAJA	He is in chennai now. searching for job. He wi
30	HARIHARAN .R	Did Course online. Prepare for gov exam.s
33	SARAVANAKUMAR.S	Node JS, ecommerse website,
54	VIMAL SARATHY	Worked in sales, we may try
58	SANJAI .B	he is intrested in full stack, he sill
63	VIGNESH .D	Reat, Boarstrap, worked in non IT field, have p
69	SARAN .M	He worked in medical field. He is intrested to
70	DHANALAKSHMI	Front end HTML, Intership in Payroll. Having p
72	BHARATHAN	Did frondend course, react js, java

SELVA KUMAR .V	Intrested,	
VIGNESH	He is working in data entry. He is ready to le	
PANDIYARAJ	Sales Exective HDFC. Looking For Admin	
The Standby applicants are:		
Name	Comments	
GUNASEELAN .S	MEAN Stack, 1 year working in trainee, Looking	
BHUVANESHWARI .M	From Gov Eng college, did java and php course,	
MUGEETH	He is working in CTS. Looking to upgrade skill	
ANTONY .M	did english litrature. did intership. english	
	THANK YOU	
	VIGNESH PANDIYARAJ Standby applicant Name GUNASEELAN .S BHUVANESHWARI .M	