# task-3-batch-2-selected-candidates

#### November 1, 2023

#### Senchola Batch 2 Selected Details

Import Data from excel file

1

2

Gender

```
[]: import numpy as np
     import pandas as pd
     import seaborn as sns
     import matplotlib.pyplot as plt
[]: df=pd.read_excel('/content/Batch-2 Senchola form application -Data Cleaned.
      ⇔xlsx')
[]: df.head()
[]:
                      Name
                            Gender
                                      Qualification Pass-out Year
                                                                          City \
       PRAGATHEESHWARAN K Female
                                                             2021
                                                                      Chennai
                                        Engineering
     1
                S.KARTHICK
                              Male
                                        Engineering
                                                             2022 Uthukottai
     2
                R VIGNESH
                              Male Arts & Science
                                                             2023
                                                                   Karaikudi
                            Female
                                     Arts & Science
                                                                      Madurai
     3
               S PAVITHRA
                                                             2023
     4
             KARUPPASAMY A
                              Male
                                     Arts & Science
                                                             2023
                                                                      Madurai
           KYC
                           Domain
                                                              College Name
     0
                 Software Testing
                                  Aarupadi Veedu Institute Of Technology
           Done
     1
           Done
                 Software Testing
                                       Adhiparasakthi Engineering College
     2
           Done
                          Backend
                                     Alagappa Govt Arts College Karaikudi
                            UI/UX
                                                         American College
     3
       pending
         Done
                         Frontend
                                                         American College
[]: df.info()
    <class 'pandas.core.frame.DataFrame'>
    RangeIndex: 125 entries, 0 to 124
    Data columns (total 8 columns):
                        Non-Null Count
         Column
                                        Dtype
                        _____
         _____
     0
         Name
                        125 non-null
                                        object
```

object

object

object

125 non-null

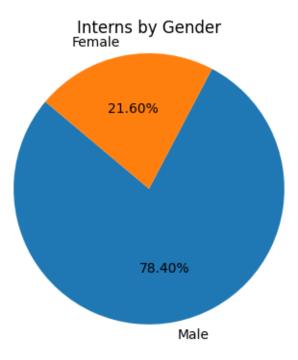
Qualification 125 non-null

Pass-out Year 125 non-null

```
4
         City
                        125 non-null
                                         object
     5
         KYC
                        125 non-null
                                         object
     6
         Domain
                        125 non-null
                                         object
     7
         College Name
                        125 non-null
                                         object
    dtypes: object(8)
    memory usage: 7.9+ KB
[]: df.isnull().sum()
[]: Name
                      0
     Gender
                      0
     Qualification
                      0
    Pass-out Year
    City
                      0
    KYC
                      0
    Domain
                      0
     College Name
     dtype: int64
[]: df.columns
[]: Index(['Name', 'Gender', 'Qualification', 'Pass-out Year', 'City', 'KYC',
            'Domain', 'College Name'],
           dtype='object')
    0.1 Insights
    1)Total Interns
[]: total_interns=df['Name'].count()
     print("Total number of Interns:" ,total_interns)
    Total number of Interns: 125
    2)Total College
[]: Total_colleges = df['College Name'].nunique()
     print("Total number of college:",Total_colleges)
    Total number of college: 100
    3)Total cities
[]: total_city=df['City'].nunique()
     print("Total number of cities:" ,total_city)
    Total number of cities: 46
```

2

4) Interns by Gender



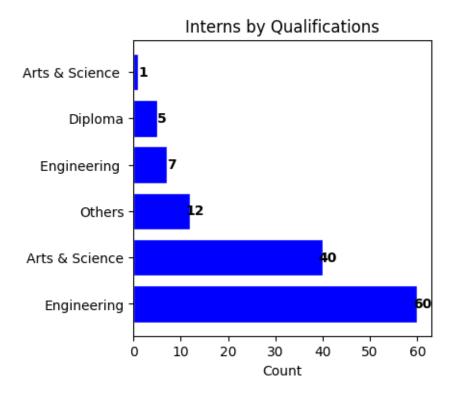
## 5)Interns by Qualification

```
[]: Intern_Qualification = df['Qualification'].value_counts()

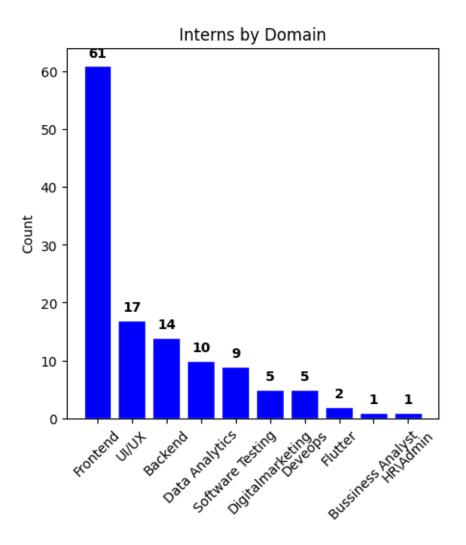
levels = np.arange(len(Intern_Qualification))

fig, ax = plt.subplots(figsize=(4, 4))
for i in levels:
    plt.barh(levels[i], Intern_Qualification[i], color='blue',
    edgecolor='white')
    plt.text(Intern_Qualification[i] + 1, levels[i],
    str(Intern_Qualification[i]), ha='center', va='center', fontsize=10,
    fontweight='bold', color='black')
```

```
plt.yticks(levels, Intern_Qualification.index)
plt.xlabel('Count')
plt.title('Interns by Qualifications')
plt.show()
```



# 6)Interns by Domain



### 7)Interns by Pass-Out Year

```
[]: df['Pass-out Year'] = pd.to_numeric(df['Pass-out Year'], errors='coerce')
Intern_year = df['Pass-out Year'].value_counts().sort_index()

years = Intern_year.index
counts = Intern_year.values

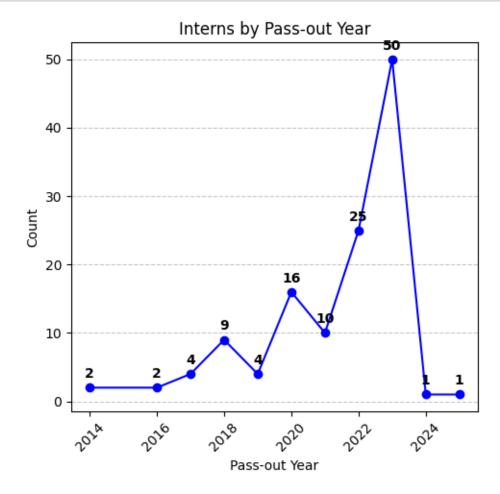
fig, ax = plt.subplots(figsize=(5, 5))

plt.plot(years, counts, marker='o', color='blue', linestyle='-')

for i, count in enumerate(counts):
    plt.text(years[i], count + 1, str(count), ha='center', va='bottom', uafontsize=10, fontweight='bold', color='black')
```

```
plt.xlabel('Pass-out Year')
plt.ylabel('Count')
plt.title('Interns by Pass-out Year')
plt.grid(True, axis='y', linestyle='--', alpha=0.7)
plt.xticks(rotation=45)
plt.tight_layout()

plt.show()
```



# 8)Interns by City

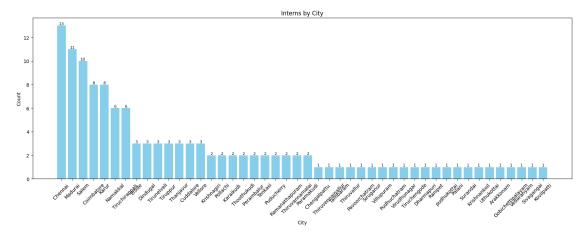
```
[]: Interns_by_City = df['City'].value_counts()

plt.figure(figsize=(20, 6))
bars = plt.bar(Interns_by_City.index, Interns_by_City.values, color='skyblue')
plt.xlabel('City')
plt.ylabel('Count')
plt.title('Interns by City')
```

```
plt.xticks(rotation=45)

for bar in bars:
    yval = bar.get_height()
    plt.text(bar.get_x() + bar.get_width()/2, yval, round(yval, 2),
    ha='center', va='bottom', color='black', fontsize=8)

plt.show()
```



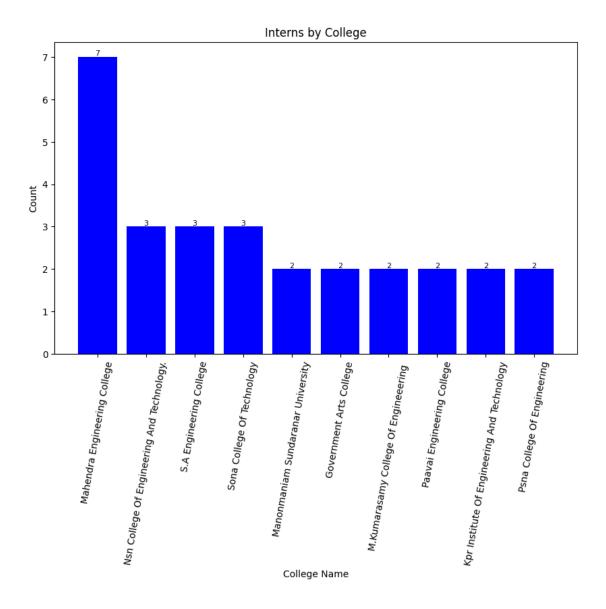
### 9)Interns by College

```
[]: Interns_by_College= df['College Name'].value_counts().nlargest(10)

plt.figure(figsize=(10, 6))
bars = plt.bar(Interns_by_College.index, Interns_by_College.values,
color='blue')
plt.xlabel('College Name')
plt.ylabel('Count')
plt.title('Interns by College')
plt.xticks(rotation=80)

for bar in bars:
    yval = bar.get_height()
    plt.text(bar.get_x() + bar.get_width()/2, yval, round(yval, 2),
cha='center', va='bottom', color='black', fontsize=8)

plt.show()
```



# 10) Interns by KYC status

```
[]: KYC_counts = df['KYC'].value_counts()

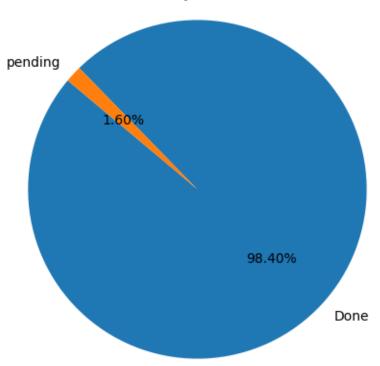
if 'Done' in KYC_counts:
    KYC_counts['Done'] += KYC_counts.get('Done ', 0)
    KYC_counts = KYC_counts.drop('Done ', errors='ignore')

plt.figure(figsize=(5, 5))
plt.pie(KYC_counts, labels=KYC_counts.index, autopct='%1.2f%%', startangle=140)

plt.title('Interns by KYC status')
```

```
plt.axis('equal')
plt.show()
```

# Interns by KYC status



\*\*THANK YOU\*\*