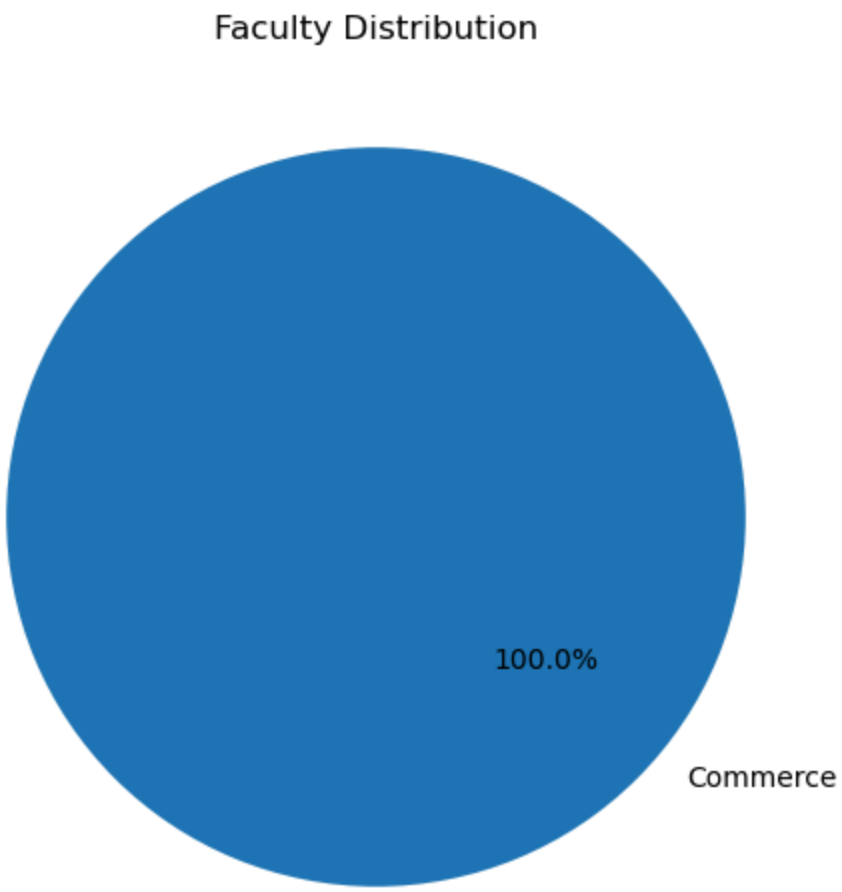
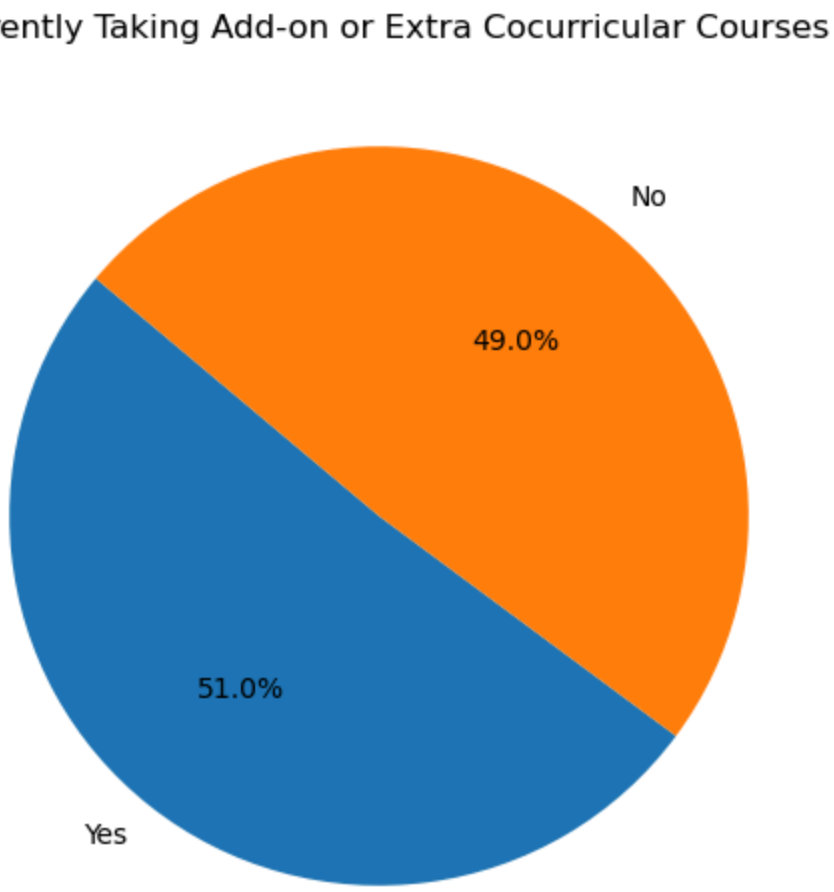
In [1]:
```
import pandas as pd
import matplotlib.pyplot as plt

# Load the CSV data into a DataFrame
df = pd.read_csv('college.csv')

# Drop any rows with missing values if necessary
df = df.dropna()

# Define a function to create pie charts
def plot_pie(data, title):
    data.plot(kind='pie', figsize=(10, 6), autopct='%1.1f%%', startangle=140)
    plt.title(title)
    plt.ylabel('')  # Hide the y-label
    plt.show()

# Total students
total_students = len(df)
print("Total students:", total_students)

# Plot for 'Faculty'
faculty_counts = df['Faculty'].value_counts()
print(faculty_counts)
plot_pie(faculty_counts, 'Faculty Distribution')

# Plot for 'Are you currently taking any add-on or extra cocurricular courses outside
add_on_courses_counts = df['Are you currently taking any add-on or extra cocurricular
print(add_on_courses_counts)
plot_pie(add_on_courses_counts, 'Currently Taking Add-on or Extra Cocurricular Courses

# Plot for 'Do you prefer courses that are more theoretical or practical in nature?'
preference_courses_counts = df['Do you prefer courses that are more theoretical or pra
print(preference_courses_counts)
plot_pie(preference_courses_counts, 'Preference for Theoretical vs Practical Courses')

# Plot for 'Are you interested to learn add on courses?'
interest_in_add_on_courses_counts = df['Are you interested to learn add on courses?'].
print(interest_in_add_on_courses_counts)
plot_pie(interest_in_add_on_courses_counts, 'Interest in Add-on Courses')

# Plot for 'Which Programming Languages are you Proficient in?'
programming_languages_counts = df['Which Programming Languages are you Proficient in?'
print(programming_languages_counts)
plot_pie(programming_languages_counts, 'Proficiency in Programming Languages')

# Plot for 'Interested in'
interested_in_counts = df['Interested in'].str.split(';').explode().value_counts()
print(interested_in_counts)
plot_pie(interested_in_counts, 'Interest')

# Plot for 'What are your Primary areas of interest within computer Science field?'
areas_of_interest_counts = df['What are your Primary areas of interest within computer
print(areas_of_interest_counts)
plot_pie(areas_of_interest_counts, 'Primary Areas of Interest within Computer Science

# Plot for 'Do you have any background knowledge in '
background_knowledge_counts = df['Do you have any background knowledge in'].value_cour
```

```
print(background_knowledge_counts)
plot_pie(background_knowledge_counts, 'Background Knowledge')
```

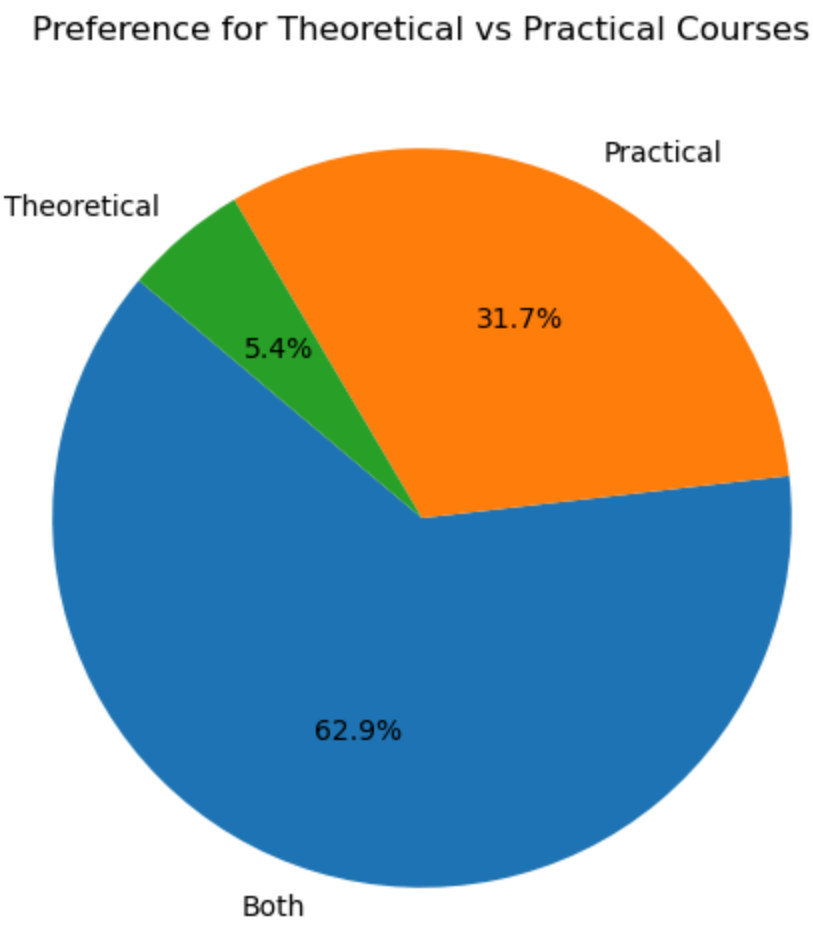
```
Total students: 259
Faculty
Commerce    259
Name: count, dtype: int64
```



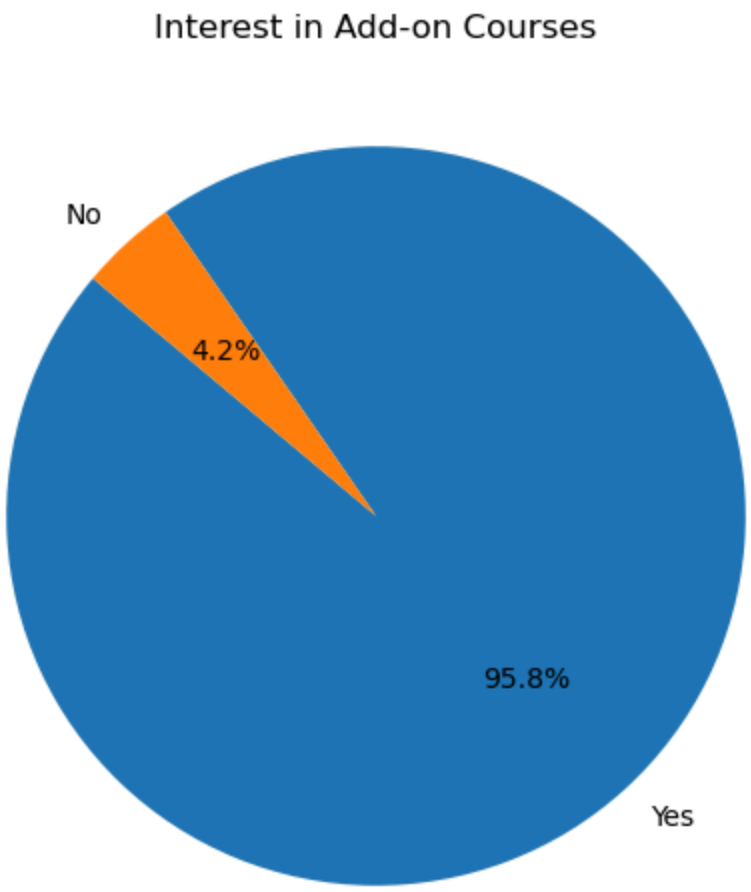

```
Are you currently taking any add-on or extra cocurricular courses outside of your maj
or requirements?
Yes    132
No     127
Name: count, dtype: int64
```



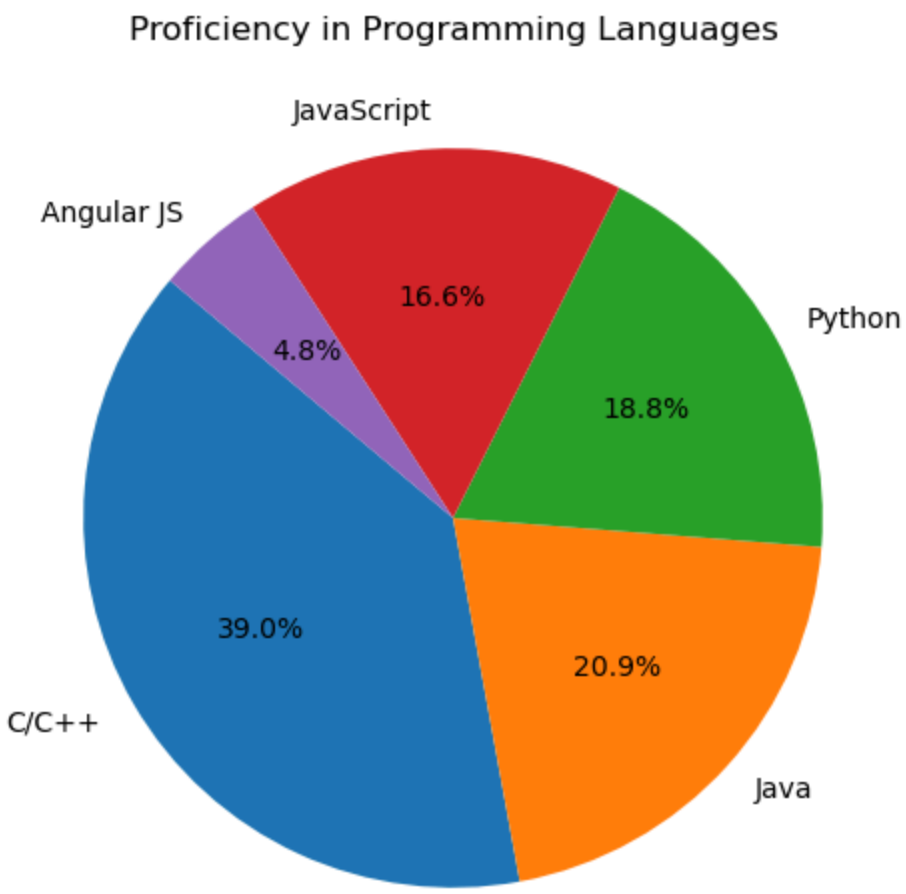

```
Do you prefer courses that are more theoretical or practical in nature?
Both           163
Practical       82
Theoretical     14
Name: count, dtype: int64
```



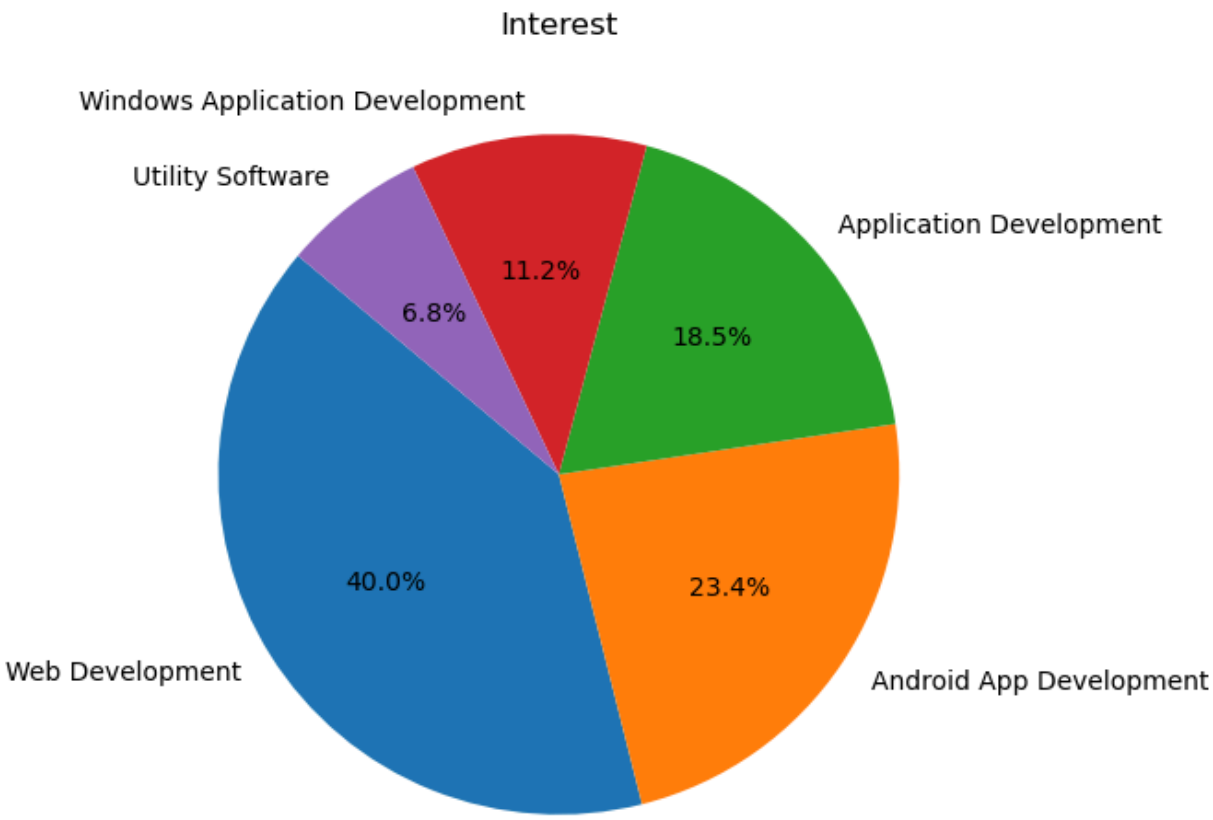

```
Are you interested to learn add on courses?
Yes    248
No      11
Name: count, dtype: int64
```



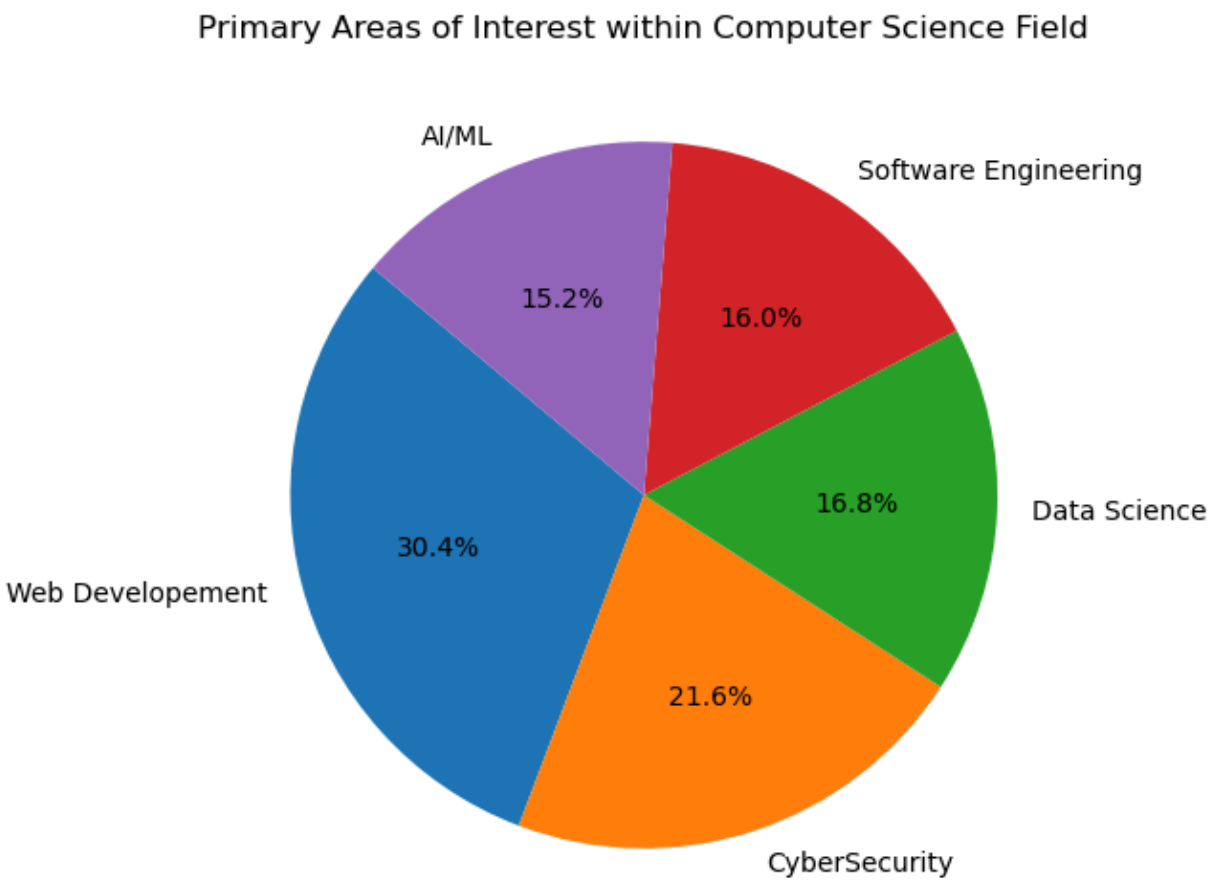

```
Which Programming Languages are you Proficient in?
C/C++         172
Java           92
Python         83
JavaScript     73
Angular JS     21
Name: count, dtype: int64
```



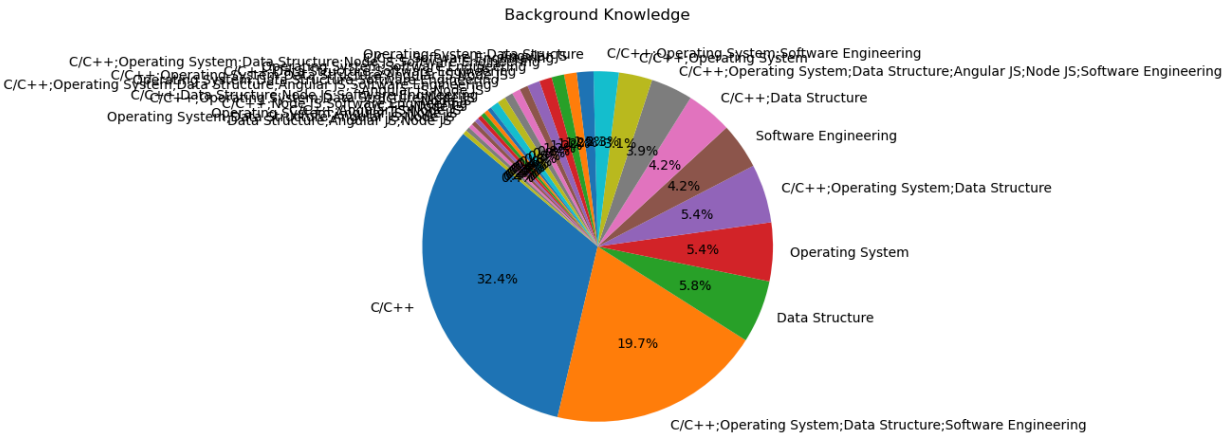

```
Interested in
Web Development                  193
Android App Development          113
Application Development           89
Windows Application Development    54
Utility Software                   33
Name: count, dtype: int64
```




```
What are your Primary areas of interest within computer Science field?
Web Developement        146
CyberSecurity           104
Data Science             81
Software Engineering     77
AI/ML                    73
Name: count, dtype: int64
```


Primary Areas of Interest within Computer Science Field
AI/ML
Software Engineering
15.2%
16.0%
16.8%
Data Science
30.4%
Web Developement
21.6%
CyberSecurity

```
Do you have any background knowledge in
C/C++                                                                                  84
C/C++;Operating System;Data Structure;Software Engineering                             51
Data Structure                                                                         15
Operating System                                                                       14
C/C++;Operating System;Data Structure                                                  14
Software Engineering                                                                   11
C/C++;Data Structure                                                                   11
C/C++;Operating System;Data Structure;Angular JS;Node JS;Software Engineering          10
C/C++;Operating System                                                                  8
C/C++;Operating System;Software Engineering                                             6
Operating System;Data Structure                                                         4
Angular JS                                                                              3
C/C++;Software Engineering                                                              3
C/C++;Operating System;Data Structure;Node JS;Software Engineering                      3
Operating System;Software Engineering                                                   3
C/C++;Data Structure;Software Engineering                                               2
C/C++;Operating System;Data Structure;Angular JS;Node JS                                2
Operating System;Data Structure;Software Engineering                                    2
C/C++;Operating System;Data Structure;Angular JS;Software Engineering                   2
Angular JS;Node JS                                                                      2
C/C++;Data Structure;Node JS;Software Engineering                                       1
C/C++;Operating System;Data Structure;Node JS                                           1
Node JS                                                                                 1
C/C++;Node JS;Software Engineering                                                      1
C/C++;Node JS                                                                           1
C/C++;Angular JS;Node JS                                                                1
Operating System;Angular JS;Node JS                                                     1
Operating System;Data Structure;Angular JS;Node JS                                      1
Data Structure;Angular JS;Node JS                                                       1
Name: count, dtype: int64
```



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