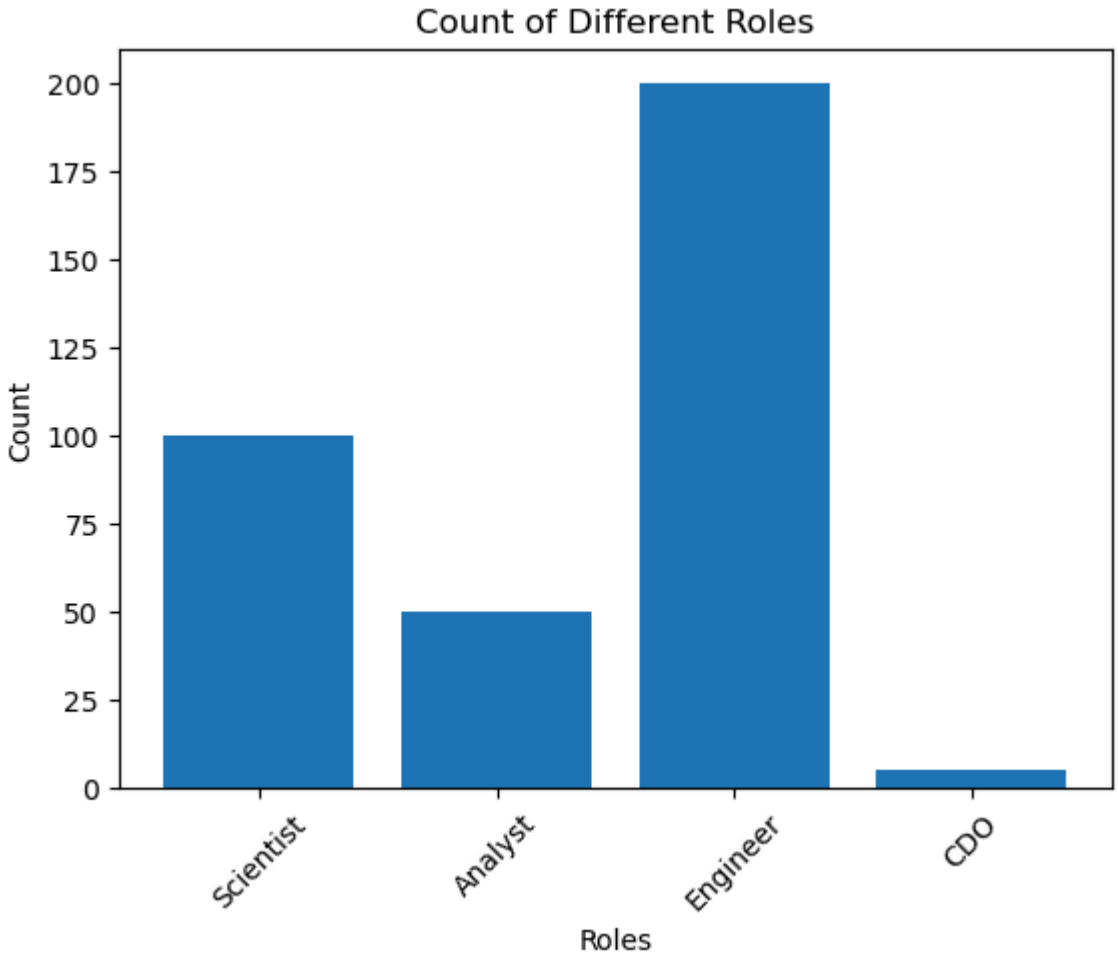
In [ ]:
```
''' 1.b Analyze and visualize the distribution of various data science roles (Data Analyst, Data Engineer, Data Scientist, etc.) from a dataset.'''
```

In [5]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

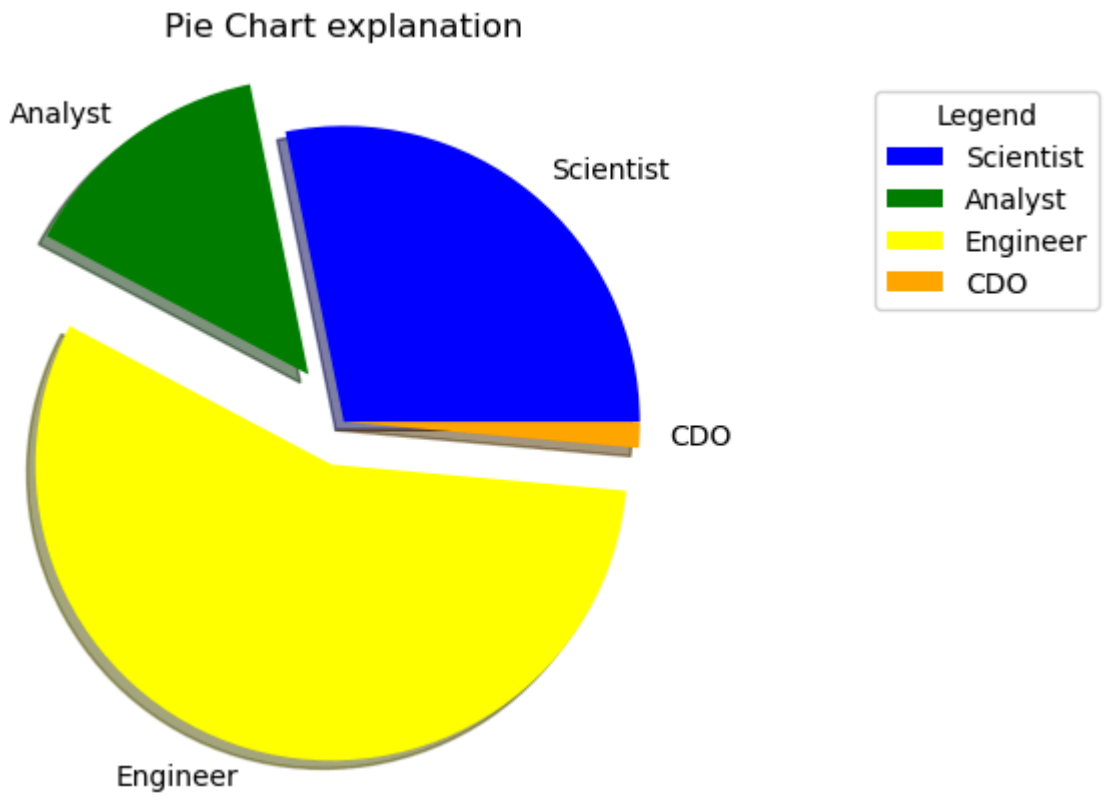
In [8]:
```
data={"roles":['Scientist','Analyst','Engineer','CDO'],
      "count":[100,50,200,5]

}
df=pd.DataFrame(data)
plt.bar(df['roles'],df['count'])
plt.xlabel('Roles')
plt.ylabel('Count')
plt.title('Count of Different Roles')
plt.xticks(rotation=45)
plt.show()
```



In [28]:
```
col=['blue','green','yellow','orange']
my_ex=[0,0.2,0.15,0]
plt.pie(df['count'],labels=df['roles'],colors=col,explode=my_ex,shadow=True)
plt.legend(loc='center left',
    bbox_to_anchor=(1.2, 0.8),

    title='Legend',
       )
plt.title("Pie Chart explanation")
plt.show()
```


Pie Chart explanation
Analyst
Scientist
CDO
Engineer
Legend
Scientist
Analyst
Engineer
CDO

In [ ]: