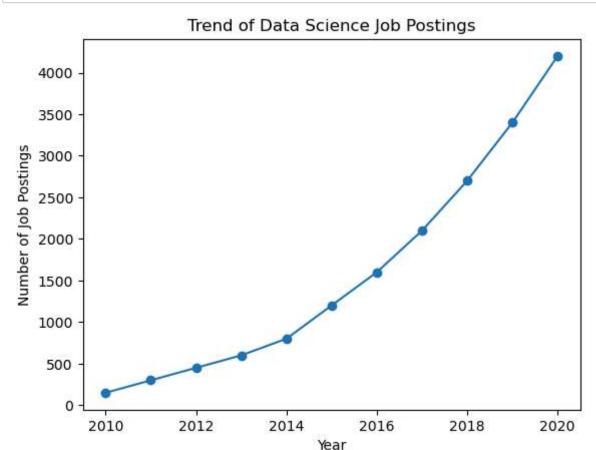
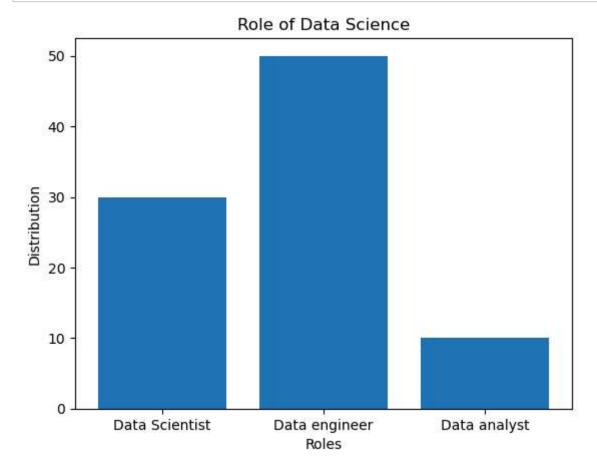
```
In [7]: import pandas as pd
import matplotlib.pyplot as plt
data={'Year':list(range(2010,2021)),'Job Postings':[150,300,450,600,800,1200,10]
df=pd.DataFrame(data)
plt.plot(df['Year'],df['Job Postings'],marker='o')
plt.title('Trend of Data Science Job Postings')
plt.xlabel('Year')
plt.ylabel('Number of Job Postings')
plt.show()
```

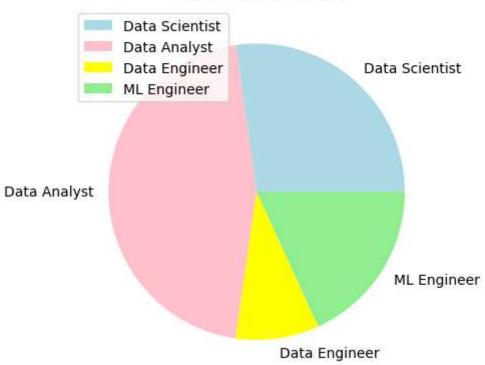


```
In [11]: import pandas as pd
   import matplotlib.pyplot as plt
   name=['Data Scientist','Data engineer','Data analyst']
   data=[30,50,10]
   plt.bar(name,data)
   plt.title('Role of Data Science')
   plt.xlabel('Roles')
   plt.ylabel('Distribution')
   plt.show()
```



```
In [1]: import pandas as pd
    import matplotlib.pyplot as plt
    name=['Data Scientist','Data Analyst','Data Engineer','ML Engineer']
    data=[30,50,10,20]
    plt.pie(data,labels=name,colors=['lightblue','pink','yellow','lightgreen'])
    plt.title('Role of Data Science')
    plt.legend()
    plt.show()
```

Role of Data Science



Structured Data:

```
ID Name age
0 1 Alice 25
1 2 Bob 30
2 3 Charles 35
```

Unstructured Data:

This is an example of unstructured data.it can be a piece of text, an image or a video file.

semi_structured_data:

```
{'ID': 1, 'Name': 'Alice', 'Attributes': {'height': 165, 'Weights': 68}}
```

In []: