structured__data=pd.Dataframed({ 'ID':[1,2,3], 'Name':['Ram','John','Geeta'], 'Age':[25,30,35] })

In [5]:
```
import pandas as pd
structured_data=pd.DataFrame({ 'ID':[1,2,3], 'Name':['Ram','John','Geeta'], 'A
print("Structured Data: \n",structured_data)
```

```
Structured Data:
    ID   Name  Age
0   1    Ram   25
1   2   John   30
2   3  Geeta   35
```

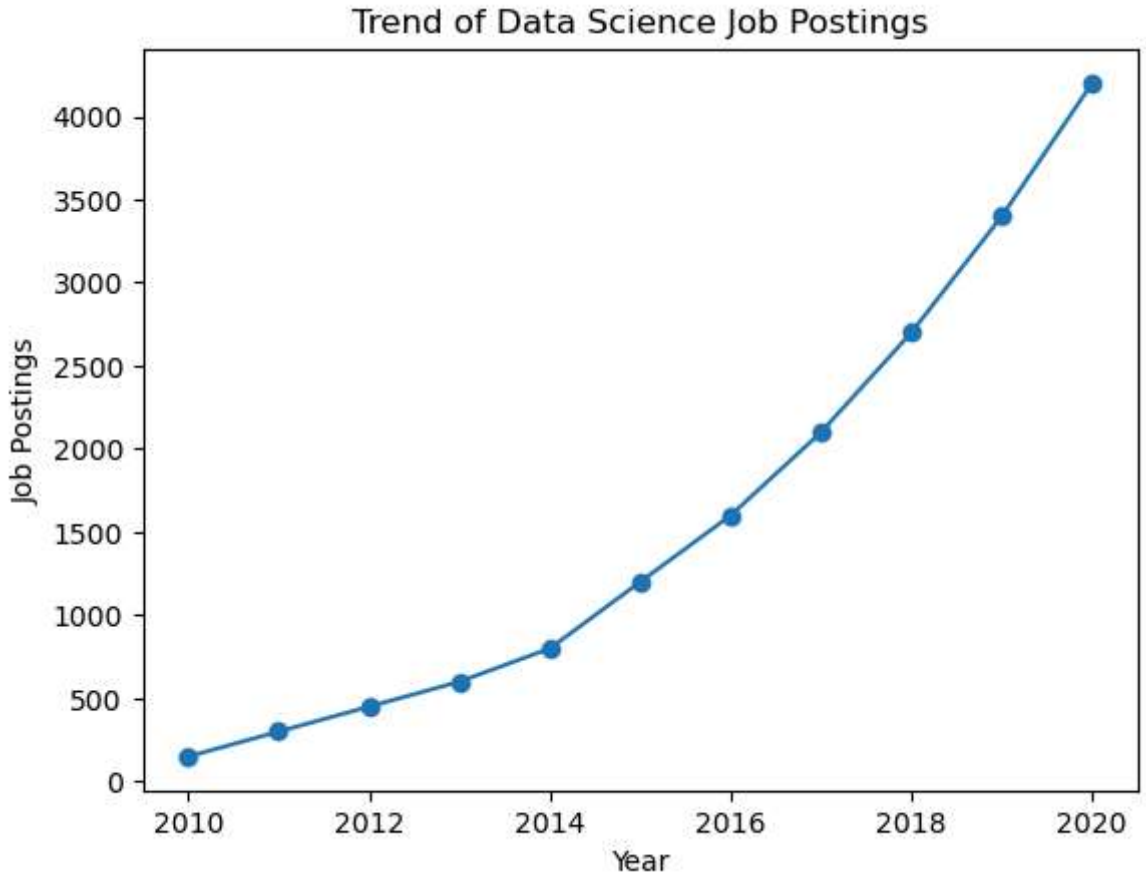
In [7]:
```
import pandas as pd
unstructured_data="This is an example of unstructured data"
print("unstructured data: \n", unstructured_data)
```

```
unstructured data:
 This is an example of unstructured data
```

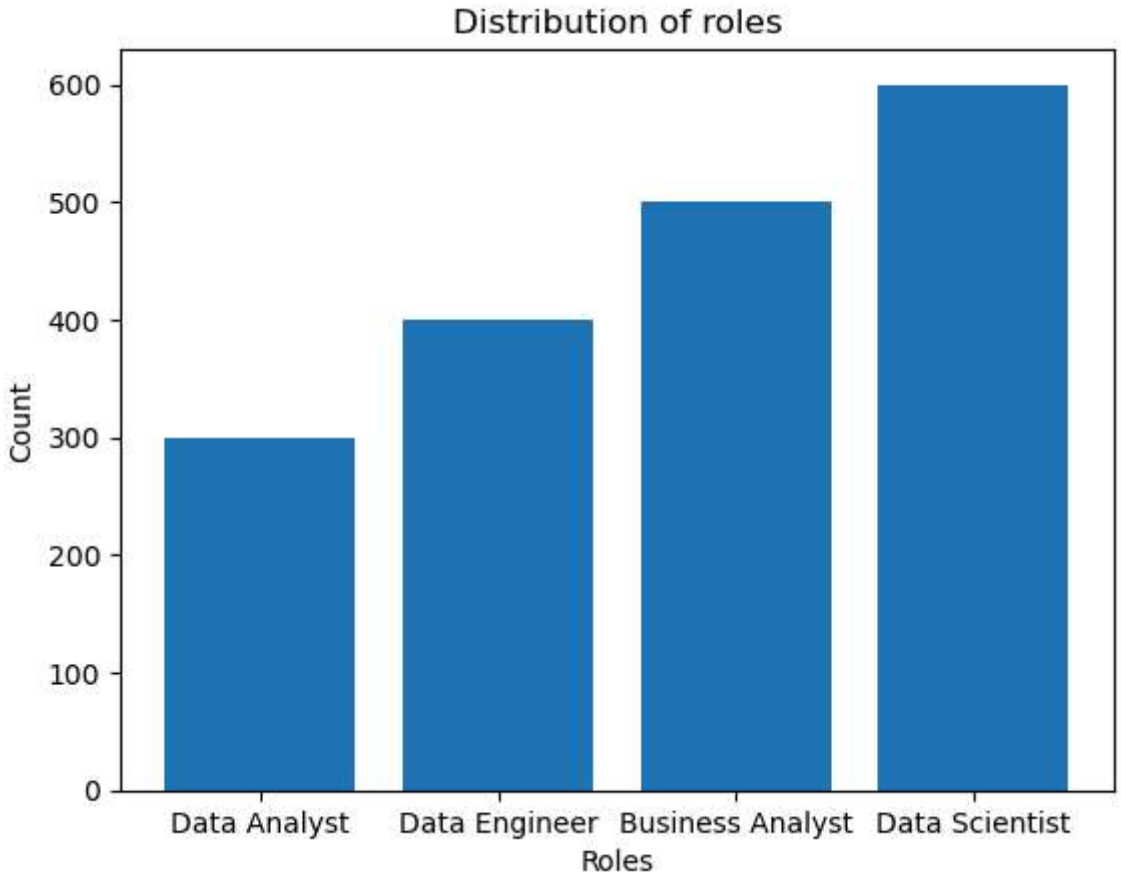
In [8]:
```
import pandas as pd
semistructured_data={ 'ID':[1,2,3], 'Name': ['Ram','John','Geeta'],'Age':[25,3
print("semistructured data: \n", semistructured_data)
```

```
semistructured data:
 {'ID': [1, 2, 3], 'Name': ['Ram', 'John', 'Geeta'], 'Age': [25, 30, 35]}
```

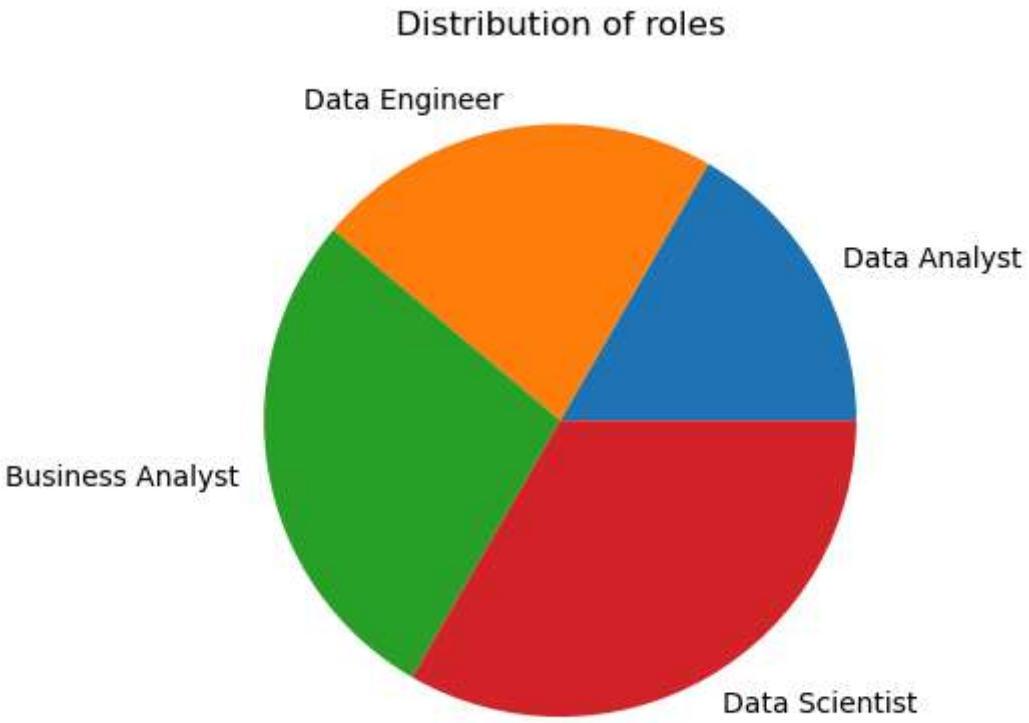
In [19]:
```
import pandas as pd
import matplotlib.pyplot as plt
data = {'Year':list(range(2010,2021)),'Job Postings':[150,300,450,600,800,1200
df=pd.DataFrame(data)
plt.plot(df['Year'],df['Job Postings'], marker='o')
plt.title('Trend of Data Science Job Postings')
plt.xlabel('Year')
plt.ylabel('Job Postings')
plt.show()
```



In [20]:
```
import pandas as pd
import matplotlib.pyplot as plt
roles=['Data Analyst','Data Engineer','Business Analyst','Data Scientist']
count=[300,400,500,600]
plt.bar(roles,count)
plt.title('Distribution of roles')
plt.xlabel('Roles')
plt.ylabel('Count')
plt.show()
```



In [21]:
```
import pandas as pd
import matplotlib.pyplot
roles=['Data Analyst','Data Engineer','Business Analyst','Data Scientist']
count=[300,400,500,600]
plt.pie(count,labels=roles)
plt.title('Distribution of roles')
plt.show()
```



In [ ]:

In [ ]: