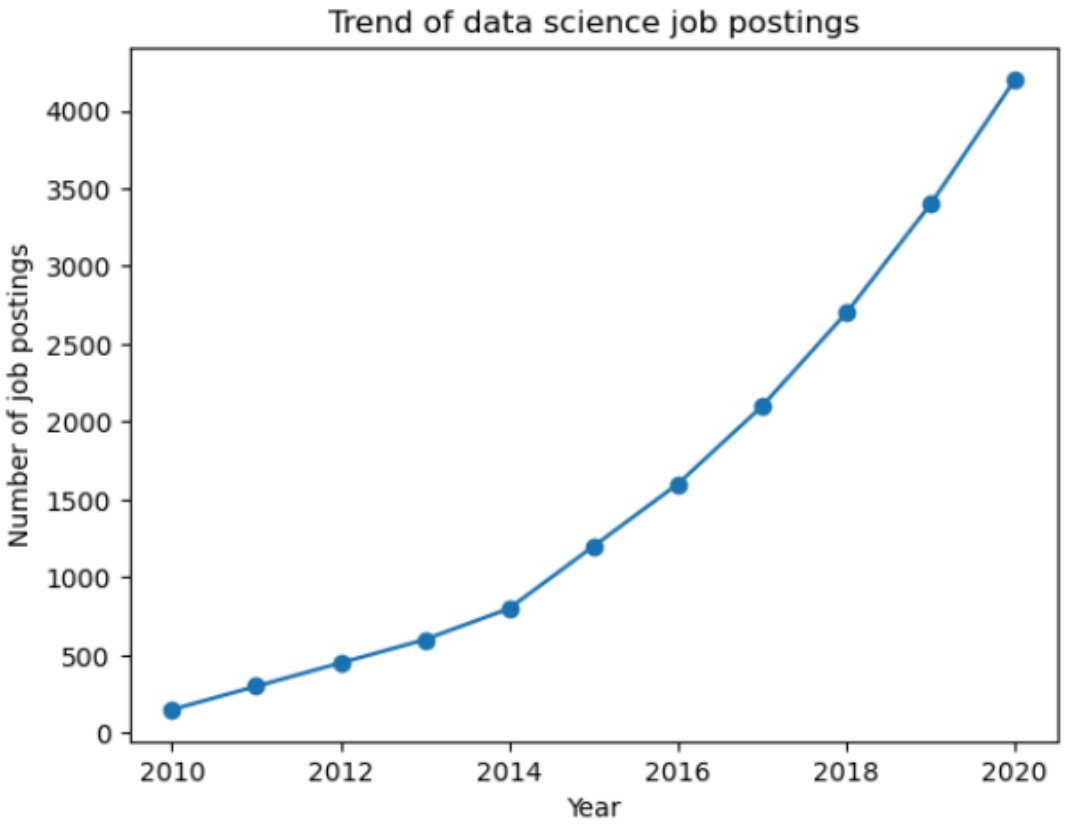
TYPE: GRAPH

In [2]:
```
import pandas as pd
import matplotlib.pyplot as plt
data={'Year':list(range(2010,2021)),'Job Postings':[150,300,450,600,800,1200,1600,2100,2700,3400,4200]}
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()
```

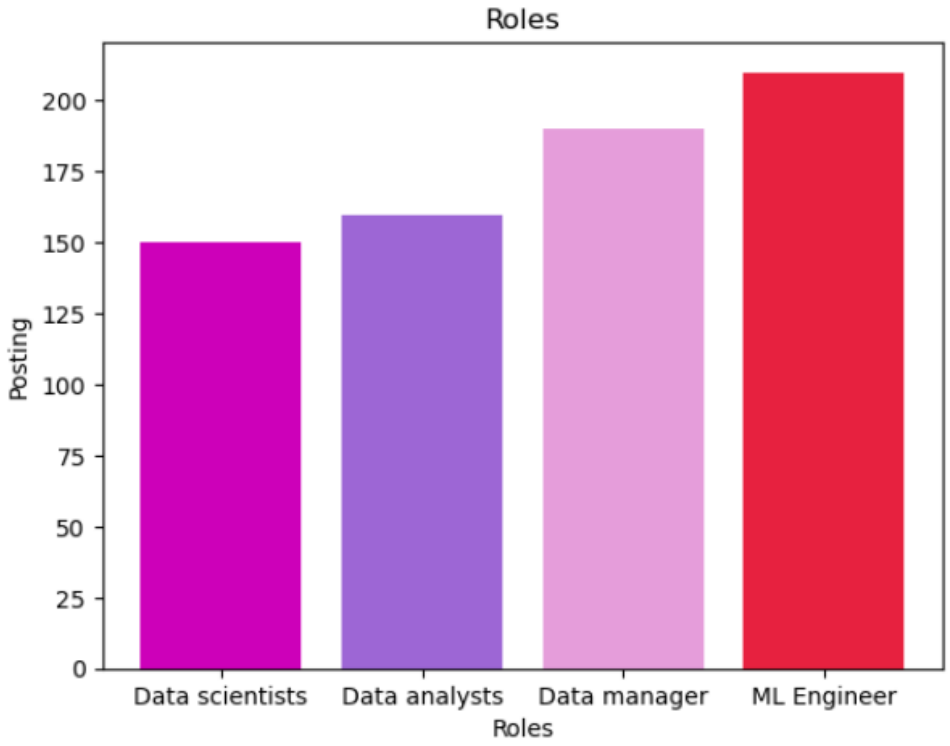


TYPE: BAR GRAPH

In [ ]:
```
import pandas as pd
```

In [ ]:
```
import matplotlib.pyplot as plt
```

In [15]:
```
Roles=['Data scientists','Data analysts','Data manager','ML Engineer']
Posting=[150,160,190,210]
plt.bar(Roles,Posting,color=['m','mediumpurple','plum','crimson'])
plt.title('Roles')
plt.xlabel('Roles')
plt.ylabel('Posting')
plt.show()
```



TITLE: STRUCTURED DATA

```
In [7]: import pandas as pd
        structured_data=pd.DataFrame({'ID':[1,2,3],'name':['Alice','Bob','Charlie'],'age':[25,30,23]})
        print("structured data:\n",structured_data)
```

```
structured data:
    ID     name  age
0   1    Alice   25
1   2      Bob   30
2   3  Charlie   23
```

TITLE: UNSTRUCTURED DATA

```
In [7]: import pandas as pd
        structured_data=pd.DataFrame({'ID':[1,2,3],'name':['Alice','Bob','Charlie'],'age':[25,30,23]})
        print("structured data:\n",structured_data)
```

```
structured data:
    ID     name  age
0   1    Alice   25
1   2      Bob   30
2   3  Charlie   23
```

TITLE: SEMI STRUCTURED DATA

```
In [9]: semistructured_data={'ID':[1,2,3],'name':['Alice','Bob','Charlie'],'age':[25,30,23]}
        print("semistructured data:\n",semistructured_data)
```

```
semistructured data:
 {'ID': [1, 2, 3], 'name': ['Alice', 'Bob', 'Charlie'], 'age': [25, 30, 23]}
```

TYPE: PIE CHART

In [14]:
```
roles=['Data scientists','Data analysts','Data manager','ML Engineer']
count=[20,50,70,90]
ex=[0,.5,0,0]
col=['crimson','hotpink','lightpink','plum']
plt.pie(count,labels=roles,explode=ex,colors=col)
plt.show()
```