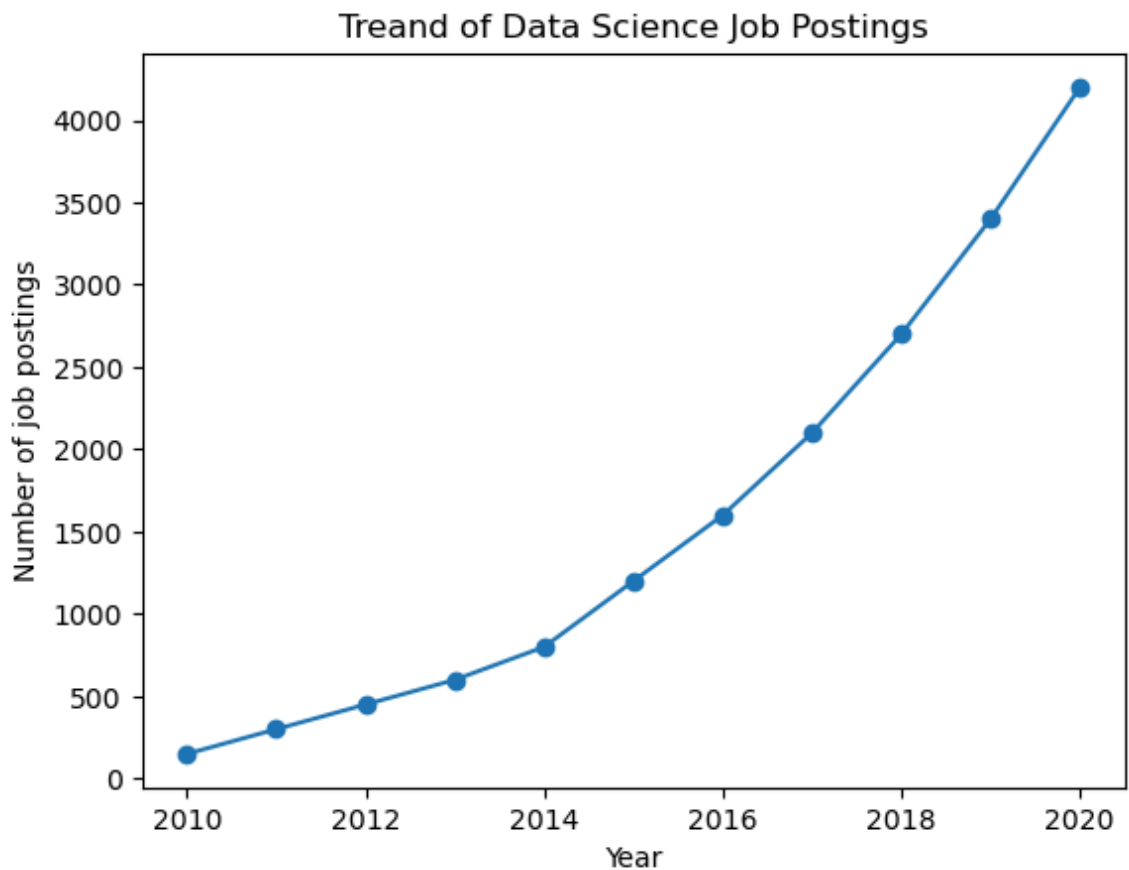


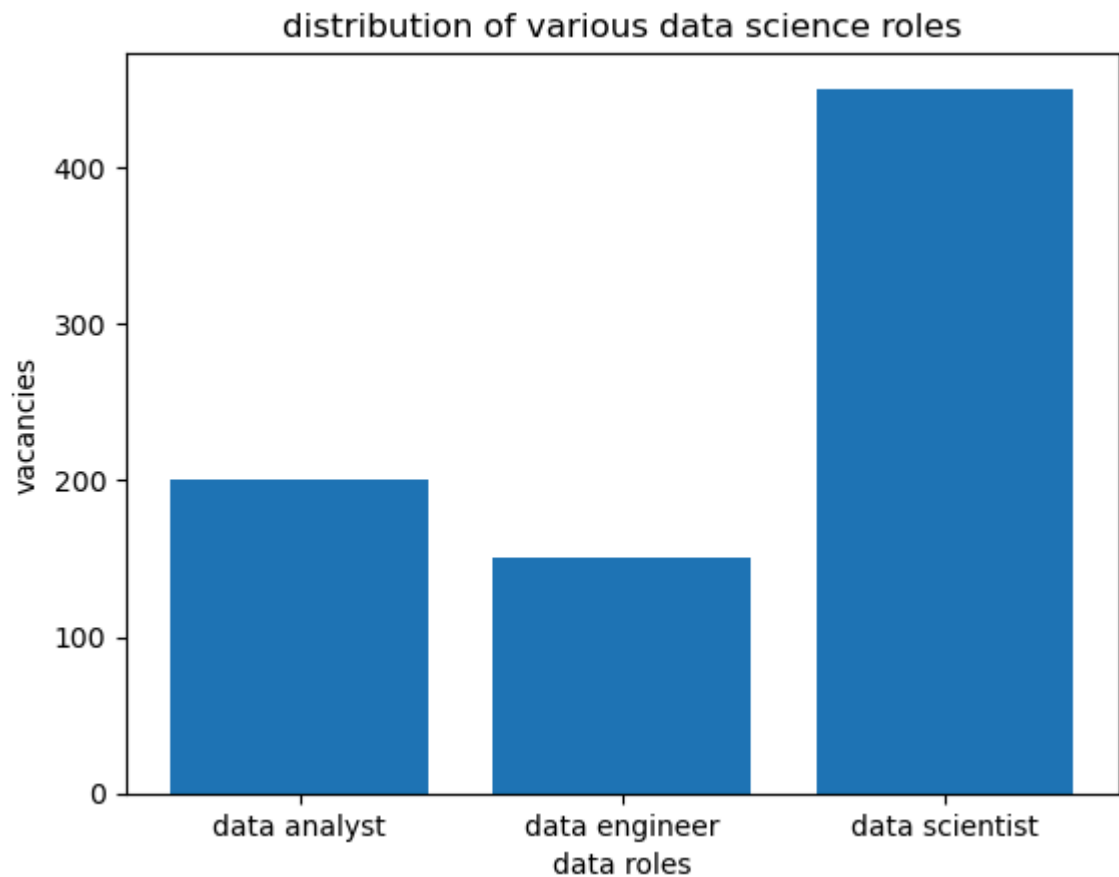
```
In [2]: import pandas as pd
import matplotlib.pyplot as plt
data={'Year':list(range(2010,2021)), 'Job postings':[150,300,450,600,800,1200,1500,2100,2700,3400,4200]}
df=pd.DataFrame(data)
plt.plot(df['Year'],df['Job postings'],marker='o')
plt.title('Trend of Data Science Job Postings')
plt.xlabel('Year')
plt.ylabel('Number of job postings')
plt.show()
```



In []:

In [16]:

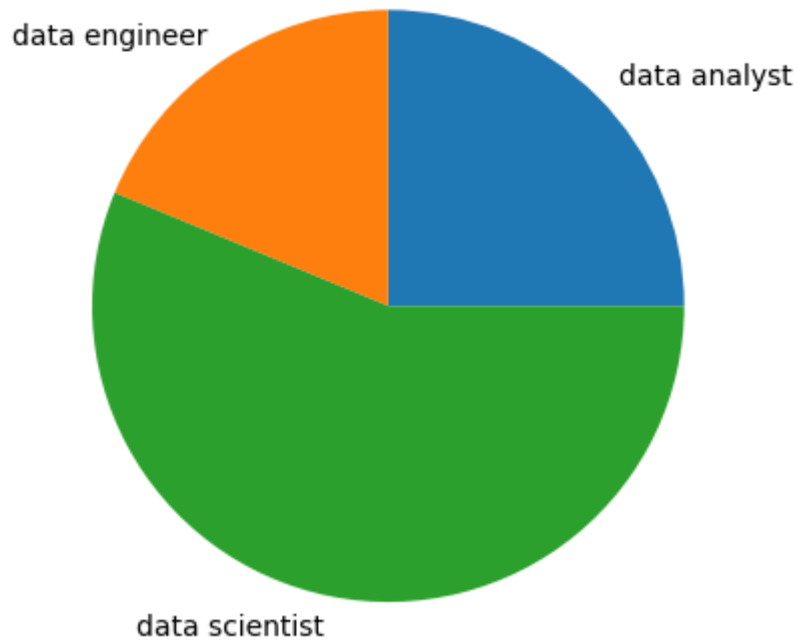
```
counts=[200,150,450]
roles=['data analyst','data engineer','data scientist']
color=['red','blue','green']
plt.bar(roles,counts)
plt.title('distribution of various data science roles')
plt.colors=['red','blue','green']
plt.xlabel('data roles')
plt.ylabel('vacancies')
plt.show()
```



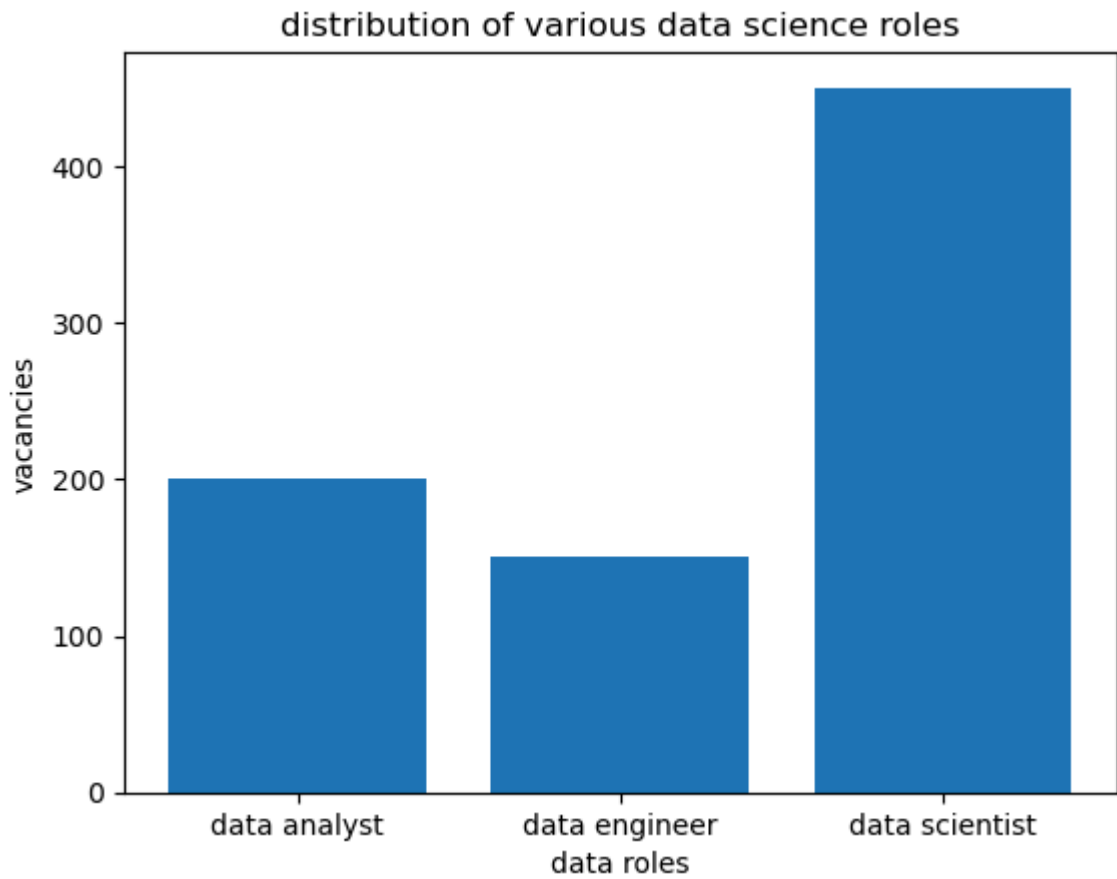
In [15]:

```
counts=[200,150,450]  
roles=['data analyst','data engineer','data scientist']  
plt.pie(counts,labels=roles  
        )  
plt.title('distribution of various data science roles')  
plt.show()
```

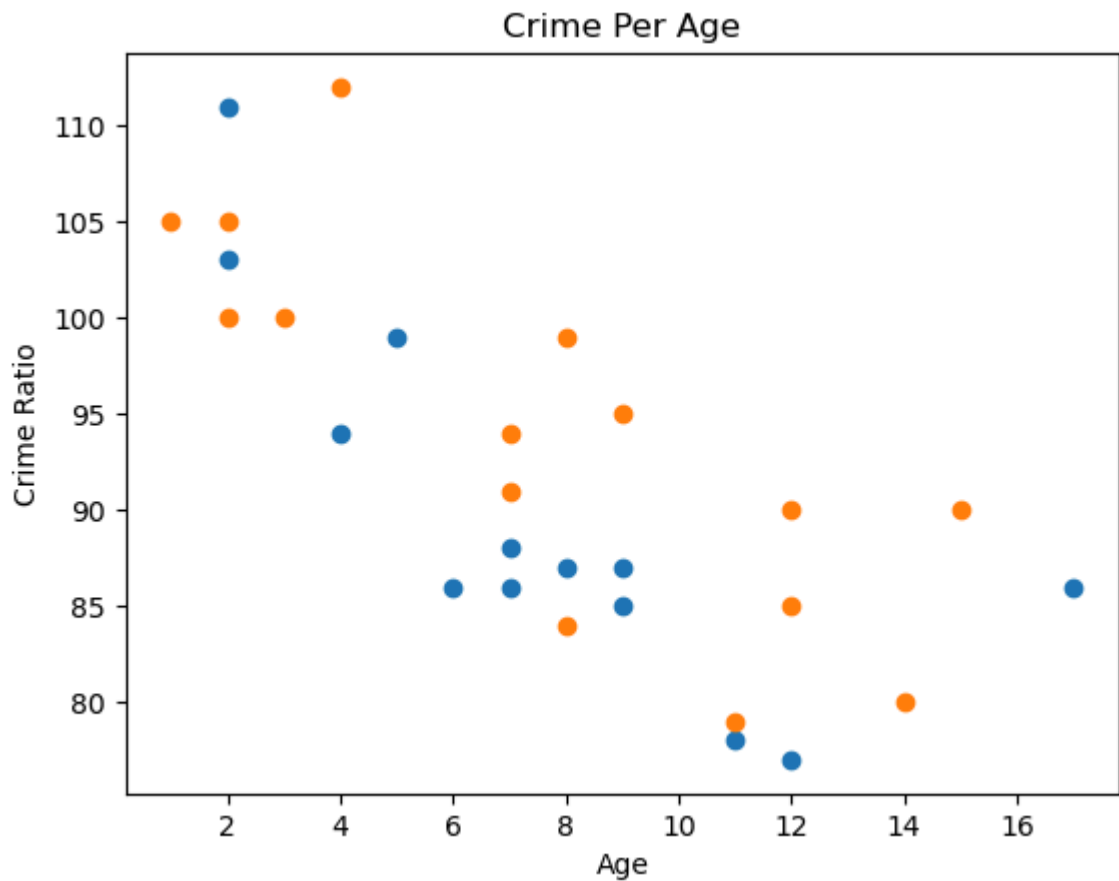
distribution of various data science roles



```
In [11]: counts=[200,150,450]
roles=['data analyst','data engineer','data scientist']
plt.bar(roles,counts)
plt.title('distribution of various data science roles')
plt.colors=['red','blue','green']
plt.xlabel('data roles')
plt.ylabel('vacancies')
plt.show()
```



```
In [3]: import matplotlib.pyplot as plt
import numpy as np
x = np.array([5,7,8,7,2,17,2,9,4,11,12,9,6])
y = np.array([99,86,87,88,111,86,103,87,94,78,77,85,86])
plt.scatter(x, y)
x = np.array([2,2,8,1,15,8,12,9,7,3,11,4,7,14,12])
y = np.array([100,105,84,105,90,99,90,95,94,100,79,112,91,80,85])
plt.scatter(x, y)
plt.xlabel('Age')
plt.ylabel('Crime Ratio')
plt.title('Crime Per Age')
plt.show()
```



In []:

In []: