```
In [3]: import pandas as pd
        structured_data=pd.DataFrame({
             'Id':[12,13,14],
            'Name':["raj","john","kumar"]
        })
        print(structured_data)
           Ιd
                Name
        0
           12
                 raj
           13
                 john
        1
           14
               kumar
In [4]: import pandas as pd
        structured_data=pd.DataFrame({
             'Rollno':[186,187,189,190,191,192,193],
            'Name':["raj","john","kumar","mithun","hasan","ikram","surya"]
        })
        print(structured_data)
           Rollno
                      Name
        0
              186
                       raj
        1
              187
                      john
        2
              189
                     kumar
        3
              190 mithun
        4
              191
                   hasan
```

5

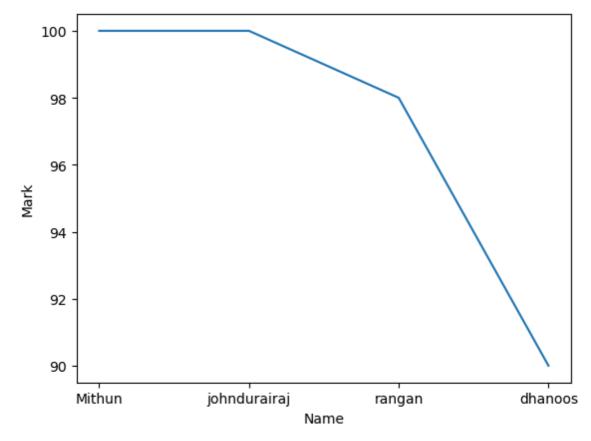
6

192

193

ikram

surya

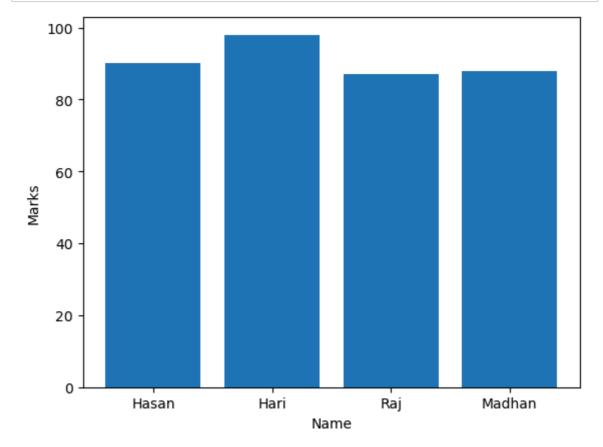


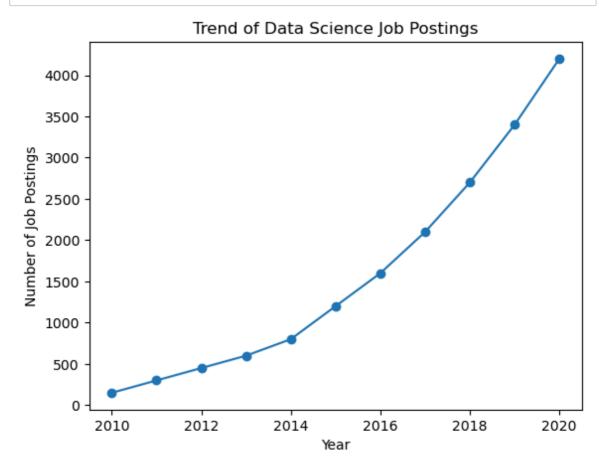
```
this is unstructured data
   Rollno
              Name
                      Dept
0
      186
                       CSE
               raj
1
      187
              john
                      MECH
2
      189
                     CIVIL
             kumar
3
      190
            mithun
                       ECE
4
      191
             hasan
                       EEE
5
      192
             ikram
                      AERO
6
      193
                      AIML
             surya
```

```
In [ ]:
```

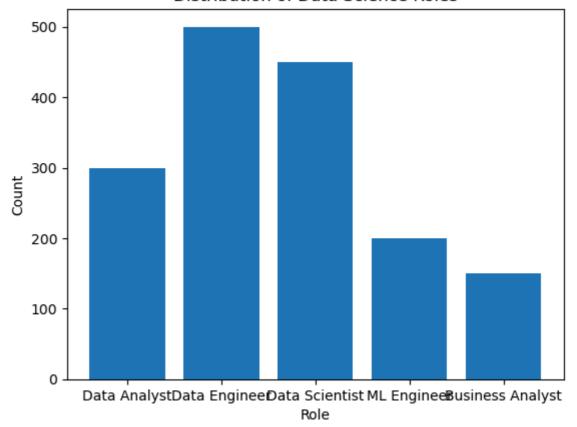
```
In [2]:
        from cryptography.fernet import Fernet
        key=Fernet.generate_key()
        f=Fernet(key)
        token=f.encrypt(b"I am Mohamed Hasan")
        token
        b'...'
        f.decrypt(token)
        b'I am Mohamed Hasan'
        key=Fernet.generate_key()
        plain text=b"I am Mohamed Hasan"
        cipher_suite=Fernet(key)
        cipher_text=cipher_suite.encrypt(plain_text)
        decrypted_text=cipher_suite.decrypt(cipher_text)
        print("Original Data",plain_text)
        print("Encrypted Data",cipher_text)
        print("Decrypted Data",decrypted_text)
```

Original Data b'I am Mohamed Hasan' Encrypted Data b'gAAAAABmwrRMQ9eyOZiCzXVjJQ-AVehyHWVCYA2D62uX5ttWxQK61BHFn Ogf67JnrKBrWW1qKIYkmK1UtYu8xBJOzPZDDBPoq2Eq4d1Ybea9IBQJ1Ik5fD0=' Decrypted Data b'I am Mohamed Hasan'





## Distribution of Data Science Roles



In [ ]: