14-10-2025

Libraries:

They are collection of modules and functions to perform specific tasks.

Pandas: data manipulates

Pandas will work on series - 1D, dataframes - table-2D

Numpy(numerical python): multi-dimensional arrays and mathemical operations

Matplotlib, seaborn, plotly: data visualization

Statistics:

Sklearn (scikit learn): machine learning - tabular numerical data

Keras - Deep learning

Tensorflow - google

Pytorch – facebook

```
d1 = {'name':['gangadhara','parvathi','priyanka','kamala'],
    'education':['8th','7th','BE','MBA'],
    'job':['labour','housewife','Data Scientist','Accountant']}
d1
```

```
{'name': ['gangadhara', 'parvathi', 'priyanka', 'kamala'],
 'education': ['8th', '7th', 'BE', 'MBA'],
 'job': ['labour', 'housewife', 'Data Scientist', 'Account
ant']}
```

```
pd.Series([1,2,3,4,5,6,7])
```

```
0    1
1    2
2    3
3    4
4    5
5    6
6    7
dtype: int64
```