Training Report Day-11

19 June 2024

Numpy worksheet:

Import NumPy as np

```
import numpy as np
```

Create an array of 10 zeros

```
arr=np.zeros(10)
print(arr)
```

Create an array of 10 ones

```
ar1=np.ones(10)
print(ar1)
```

Create an array of 10 fives

```
ar2=np.full(10,5)
```

Pandas:

Pandas is a powerful and widely-used open-source library in Python for data manipulation and analysis.

```
import numpy as np
import pandas as pd
l1=[1,2,3,4,5]
labels=['a','b','c','d','e']
d={"A":10,"B":20,"C":30,"D":40,"E":50}
s1=pd.Series(l1)  #printing indexes with values
print(s1)
```

```
s2=pd.Series(labels)
```

```
print(s2)
s3=pd.Series(data=l1, index=labels)
print(s3)
```

```
arr=np.random.randint(0,100, size=(5,6))
print(arr)
pd.DataFrame(arr)
```

```
df=pd.DataFrame(arr, index=["A","B","C","D","E"], columns=["a","b","c","d","e","f"])
print(df)
```