

Training Report Day-13

22 June 2024

Matplotlib

Matplotlib is a comprehensive library for creating static, animated, and interactive visualizations in Python. It is widely used for generating plots, graphs, and other visual representations of data, making it a key tool for data analysis and presentation.

```
import matplotlib.pyplot as plt
import numpy as np
```

```
xpoints=np.array([0,6])
ypoints=np.array([0,250])
plt.plot(xpoints,ypoints)
plt.show()
```

```
x=np.array([0,6])
y=np.array([0,100])
plt.plot(x,y)
plt.show()
```

```
ypoints=np.array([3,8,1,10])
plt.plot(ypoints,marker='*')
plt.show()
```

```
ypoints=np.array([3,8,1,10])
plt.plot(ypoints,marker='o')
plt.show()
```

```
ypoints=np.array([3,8,1,10])
plt.plot(ypoints,marker='*',linestyle='dotted')
plt.show()
```

```
ypoints=np.array([3,8,1,10])
plt.plot(ypoints,marker='*',linestyle='dashed')
plt.show()
```

```
ypoints=np.array([3,8,1,10])  
plt.plot(ypoints,marker='o',linestyle='dashdot')  
plt.show()
```

```
ypoints=np.array([3,8,1,10])  
xpoints=np.array([4,6,10,12])  
plt.plot(ypoints,xpoints)  
plt.show()
```

```
ypoints=np.array([3,8,1,10])  
plt.plot(ypoints,marker='o',linestyle='dashdot',color="r")  
plt.show()
```

```
ypoints=np.array([3,8,1,10])  
plt.plot(ypoints,marker='o',linestyle='dashdot',color="hotpink")  
plt.show()
```

```
ypoints=np.array([3,8,1,10])  
plt.plot(ypoints,marker='o',color="r",linewidth="15.0")  
plt.show()
```

```
x=np.array([4,5,7,9,12])  
y=np.array([1,3,5,7,9])  
plt.plot(x)  
plt.plot(y)  
plt.show()
```