绘图代码

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

data = np.random.randn(100).cumsum()

plt.figure(figsize=(12, 8))

plt.subplot(2, 2, 1)
plt.scatter(range(len(data)), data)
plt.title('Scatter Plot')

plt.subplot(2, 2, 2)
plt.plot(data)
plt.title('Line Plot')

plt.subplot(2, 2, 3)
plt.hist(data, bins=20, alpha=0.75)
plt.title('Histogram')

plt.subplot(2, 2, 4)
plt.step(np.linspace(0, len(data)-1, len(data)), np.cumsum(data) /
np.cumsum(data)[-1], where='post')
plt.title('Cumulative Distribution Function')

plt.tight_layout()

plt.show()
```

结果