

SciPy_Assignment_02_Solution

July 3, 2020

1 Assignment 02: Perform CDF and PDF

The comments/sections provided are your cues to perform the assignment. You don't need to limit yourself to the number of rows/cells provided. You can add additional rows in each section to add more lines of code.

If at any point in time you need help on solving this assignment, view our demo video to understand the different steps of the code.

Happy coding!

1: Import required library

```
[2]: from scipy.stats import norm
```

```
[3]: #define 20 random variable for normal distribution of data
norm.rvs(loc=0,scale=1,size=20)
```

```
[3]: array([-0.14260959,  1.5765582 , -0.62749474, -1.20073417,  1.098926  ,
          -0.20415452,  1.77739547,  0.41602791,  0.68042918, -1.64160863,
          -0.88286993, -0.64463835,  0.55416687,  1.77826756,  0.36768468,
          -0.8713303 , -0.41516042, -0.43748639, -1.47540894,  1.63176287])
```

2: Perform Cumulative Distribution Function or CDF on variables, with loc 1 and scale 3

```
[4]: norm.cdf(10,loc=1,scale=3)
```

```
[4]: 0.9986501019683699
```

3: Perform Probability Density Function or PDF on variables, with loc 1 and scale 1

```
[5]: norm.pdf(14,loc=1,scale=1)
```

```
[5]: 7.998827757006813e-38
```

```
[ ]:
```