Standard Normal Distribution Explanation

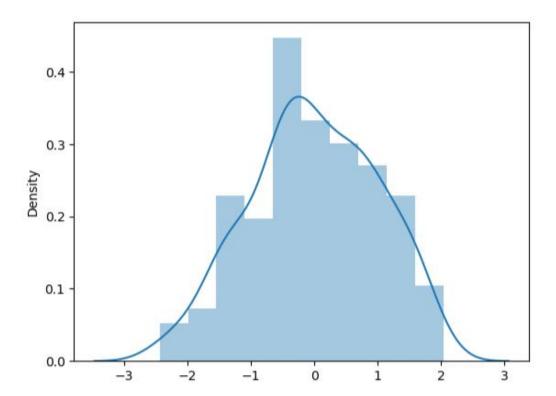
```
def stdNBgraph(dataset):
# Coverted to standard Normal Distribution
import seaborn as sns
mean=dataset.mean()
std=dataset.std()

values=[i for i in dataset]

z_score=[((j-mean)/std) for j in values]

sns.distplot(z_score,kde=True)

sum(z_score)/len(z_score)
#z_score.std()
```



- · We imported **seaborn** for visualization.
- · Calculated the **mean** and **standard deviation** of the dataset.
- · Converted each value in the dataset into its **Z-score** using (x-mean)/std
- · Used **distplot** to visualize the Z-scores as a standard normal distribution curve.

· Verified standardization:
The mean of Z-scores should be ≈ 0 .
The standard deviation of Z-scores should be \approx 1 .
The KDE (Kernel Density Estimation) shows the bell-shaped curve of the normal distribution.