



# THE Z-DISTRIBUTION

## INFERRENTIAL STATISTICS

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## The z-Distribution

Data Analyst: Gyro A. Madrona  
Department: Electrical Engineering

```
1 import pandas as pd
2 import numpy as np
3 from scipy import stats
```

Python

```
1 # Load transformer voltage dataset
2 df = pd.read_csv(r"raw\transformer-voltage-data.csv",delimiter=",")
3 df
```

Python

```
1 # Summary of DataFrame
2 df.info()
```

Python

```
1 # Summary of Statistics
2 df.describe()
```

Python

```
1 # z-critical for two-tailed test
2
```

Python

```
1 # Confidence Interval
2
```

Python