



# THE T-DISTRIBUTION

## INFERENTIAL STATISTICS

Prepared by:

**Gyro A. Madrona**  
Electronics Engineer

## The t-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 10-sample transformer voltage dataset
2 df = pd.read_csv(r"raw\transformer-voltage-data-10-samples-dataset.csv", delimiter=",")
3 df
```

Python

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

Python

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

Python

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

Python

```
1 # Confidence Interval
2
```

Python