



HYPOTHESIS TEST

INFERENCEAL STATISTICS

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L19-hypothesis-test-exercise.ipynb • Python 3.13.1

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Hypothesis Test

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

```
1 # Load 30-sample defects dataset
2 df = pd.read_csv(r"raw\defects-data-30-samples.csv", delimiter=",")
3 df
```

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

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

```
1 # parameters
2 pop_mean = 10.32
3 pop_std = 3.17
4 sample_mean = df['Defects'].mean()
5 n = df['Defects'].count()
```

```
1 # Z-score
2
```

```
1 # probability value
2
```