

KRUSKAL-WALLIS TEST

HYPOTHESIS TESTING

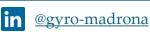
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TOPIC OUTLINE

Kruskal-Wallis Test



KRUSKAL-WALLIS TEST



KRUSKAL-WALLIS TEST

Kruskal-Wallis test is a nonparametric statistical test used to determine if there are statistically significant differences between the medians of three or more independent samples.

Null Hypothesis

$$H_0: M_1 = M_2 = M_3 = \cdots M_n$$

 H_a : at least $1 \neq (p\text{-value} < \alpha)$

Assumptions

- Continuous or ordinal data
- Non-normal data
- Comparing general distribution differences

<u>syntax</u>

```
from scipy import stats
kru_stat, p_value = stats.kruskal(
    sample_1, sample_2,
    sample 3,...sample n)
```



LABORATORY

