Natural Language Processing System Performance Settings

Data Analysis Significance Test Effect Size Post-test Power Analysis

Download Test Results

System File: ?
Select File uploaded: score

Evaluation Unit Size: ?

1

Target Statistic: ?

Mean O Median

Random Seed: ?
Shuffle

Run

Summary of statistics

Score	mean	median	std_dev	min	max
score1	0.28464	0.25552	0.15964	0.02206	1.00000
score2	0.28051	0.24905	0.15694	0.01216	1.00000
difference	0.00413	0.00070	0.11228	-0.83215	0.51108
difference (partitioned)	0.00413	0.00070	0.11228	-0.83215	0.51108

Test statistic recommendation

Normality: The data distribution does not pass the normality test.

Skewness: The data distribution does not exceed the skew threshold.

Test statistic: Based on the skewness, the recommended test statistic to use is: **mean**

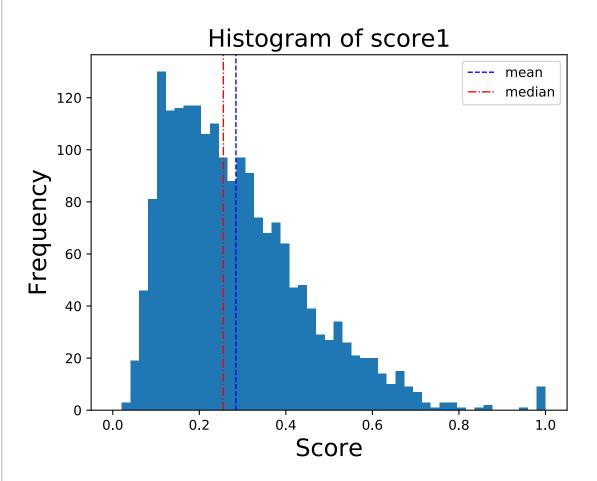
The following table shows the recommended tests.

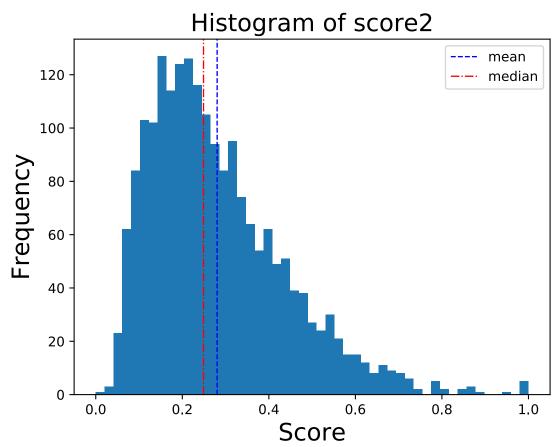
Test	Reason
IIDOOIGITAD I	The bootstrap test based on t ratios does not assume normality, and thus is appropriate for testing for mean difference.
permutation	The sign test calibrated by permutation based on mean difference is nonparametric and does not assume normality.
wilcoxon	The Wilcoxon signed-rank test can be used for this case, but since it is a nonparametric test, it

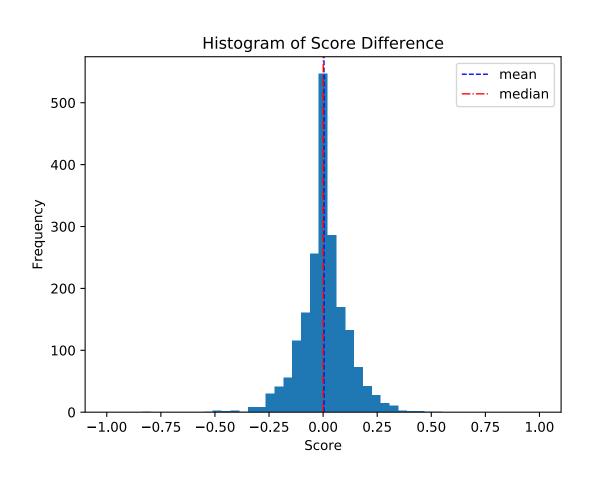
127.0.0.1:5000

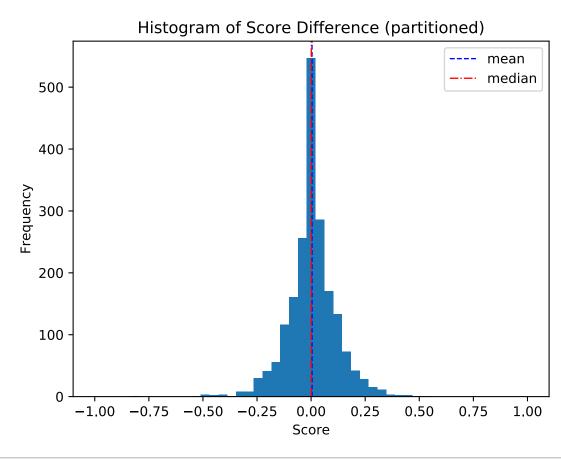
	has relatively low statistical power. Also the null hypothesis is that the pairwise difference has location 0.
sign	The (exact) sign test can be used for this case, but it has relatively low statistical power due to loss of information. Also, the null hypothesis is that the median is 0.
t	The student t test may be appropriate for non-normal data if the sample size is large enough, but the iid assumption must hold.

127.0.0.1:5000









127.0.0.1:5000