

Output tables for 1xN statistical comparisons.

May 16, 2022

1 Average rankings of Friedman test

Average ranks obtained by each method in the Friedman test.

Algorithm	Ranking
DecisionTreeClassifier:ENANE	2.5278
DecisionTreeClassifier:ENN	2.6944
DecisionTreeClassifier:LSSm	2.1667
DecisionTreeClassifier:base	2.6111

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 3 degrees of freedom): 1.75.
P-value computed by Friedman Test: 0.625875.

2 Post hoc comparison (Friedman)

P-values obtained in by applying post hoc methods over the results of Friedman procedure.

i	algorithm	$z = (R_0 - R_i) / SE$	p	Hochberg
3	DecisionTreeClassifier:ENN	1.226445	0.220031	0.016667
2	DecisionTreeClassifier:base	1.032796	0.3017	0.025
1	DecisionTreeClassifier:ENANE	0.839146	0.401387	0.05

Table 2: Post Hoc comparison Table for $\alpha = 0.05$ (FRIEDMAN)

3 Adjusted P-Values (Friedman)

Adjusted P-values obtained through the application of the post hoc methods (Friedman).

i	algorithm	unadjusted p	$p_{Hochberg}$
1	DecisionTreeClassifier:ENN	0.220031	0.401387
2	DecisionTreeClassifier:base	0.3017	0.401387
3	DecisionTreeClassifier:ENANE	0.401387	0.401387

Table 3: Adjusted p -values (FRIEDMAN) (I)

i	algorithm	unadjusted p
1	DecisionTreeClassifier:ENN	0.220031
2	DecisionTreeClassifier:base	0.3017
3	DecisionTreeClassifier:ENANE	0.401387

Table 4: Adjusted p -values (FRIEDMAN) (II)