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	2.2778
DecisionTreeClassifier:ENN	2.5278
DecisionTreeClassifier:LSSm	2.3611
DecisionTreeClassifier:base	2.8333

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 3 degrees of freedom): 1.95.
P-value computed by Friedman Test: 0.582849.

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:base	1.290994	0.196706	0.016667
2	DecisionTreeClassifier:ENN	0.580948	0.561276	0.025
1	DecisionTreeClassifier:LSSm	0.193649	0.846451	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:base	0.196706	0.590117
2	DecisionTreeClassifier:ENN	0.561276	0.846451
3	DecisionTreeClassifier:LSSm	0.846451	0.846451

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

i	algorithm	unadjusted p
1	DecisionTreeClassifier:base	0.196706
2	DecisionTreeClassifier:ENN	0.561276
3	DecisionTreeClassifier:LSSm	0.846451

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