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
KNeighborsClassifier:ENANE	2.7222
KNeighborsClassifier:ENN	1.9167
KNeighborsClassifier:LSSm	2.8611
KNeighborsClassifier:base	2.5

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 3 degrees of freedom): 5.616667.
P-value computed by Friedman Test: 0.131825.

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	KNeighborsClassifier:LSSm	2.194691	0.028186	0.016667
2	KNeighborsClassifier:ENANE	1.871942	0.061215	0.025
1	KNeighborsClassifier:base	1.355544	0.175244	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	KNeighborsClassifier:LSSm	0.028186	0.084557
2	KNeighborsClassifier:ENANE	0.061215	0.122429
3	KNeighborsClassifier:base	0.175244	0.175244

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

i	algorithm	unadjusted p
1	KNeighborsClassifier:LSSm	0.028186
2	KNeighborsClassifier:ENANE	0.061215
3	KNeighborsClassifier:base	0.175244

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