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
GaussianNB:ENANE	2.1667
GaussianNB:ENN	2.4167
GaussianNB:LSSm	2.1944
GaussianNB:base	3.2222

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 3 degrees of freedom): 7.916667.
P-value computed by Friedman Test: 0.047766.

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	GaussianNB:base	2.452889	0.014171	0.016667
2	GaussianNB:ENN	0.580948	0.561276	0.025
1	GaussianNB:LSSm	0.06455	0.948533	0.05

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

Hochberg's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.016667.

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	GaussianNB:base	0.014171	0.042514
2	GaussianNB:ENN	0.561276	0.948533
3	GaussianNB:LSSm	0.948533	0.948533

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

i	algorithm	unadjusted p
1	GaussianNB:base	0.014171
2	GaussianNB:ENN	0.561276
3	GaussianNB:LSSm	0.948533

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