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.

	Ranking
DecisionTreeClassifier:ENANE	2.6944
DecisionTreeClassifier:ENN	2.3889
DecisionTreeClassifier:LSSm	2.75
DecisionTreeClassifier:base	2.1667

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 3 degrees of freedom): 2.416667. P-value computed by Friedman Test: 0.49054.

2 Post hoc comparison (Friedman)

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

$ \begin{array}{llll} i & \text{algorithm} & z = (R_0 - R_i)/SE & p \\ 3 & \text{DecisionTreeClassifier:LSSm} & 1.355544 & 0.175244 \\ 2 & \text{DecisionTreeClassifier:ENANE} & 1.226445 & 0.220031 \\ 1 & \text{DecisionTreeClassifier:ENN} & 0.516398 & 0.605577 \\ \end{array} $	Hochberg	0.016667	0.025	0.05
) %	d	0.175244	0.220031	0.605577
i algorithm DecisionTreeClassifier:LSSm DecisionTreeClassifier:ENANE DecisionTreeClassifier:ENANE	$z = (R_0 - R_i)/SE$	1.355544	1.226445	0.516398
m 2 -1	algorithm	DecisionTreeClassifier:LSSm	DecisionTreeClassifier:ENANE	DecisionTreeClassifier:ENN
	i	3	2	П

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).

unadjusted p $p_{Hochberg}$	14 0.440063	0.440063	77 0.605577
unadjust	0.175244	0.220031	0.605577
algorithm	DecisionTreeClassifier:LSSm	DecisionTreeClassifier:ENANE	DecisionTreeClassifier:ENN
٠.	П	0	က

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

	$_{ m SSm}$	NE	-
algorithm	DecisionTreeClassifier:LSSm	DecisionTreeClassifier:ENANE	${\bf Decision Tree Classifier: ENN}$
٠	<u>—</u>	2	3

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