

Homework 3 G

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To find the Z score we calculate it with the following equation

$$Z = \frac{p_a - p_b}{\sqrt{\frac{2p(1-p)}{N}}} \quad (1)$$

p_a represents the proportion of Classification A and p_b for Classification B. p is the average proportion of both p_a and p_b

Classification A is significantly better than Classification B if the Z value is greater than 1.96. And Classification B is significantly better if the Z score is below -1.96. Both are a draw if the Z value is between both of them.

The resulting comparison are shown in the following table which shows the wins - loss- and draws for each comparison.

Calculations were done in the python file

-	DT	GD	V
DT	[0, 0, 23]	[10, 2, 11]	[2, 6, 15]
GD	[2, 10, 11]	[0, 0, 23]	[0, 8, 15]
V	[6, 2, 15]	[8, 0, 15]	[0, 0, 23]

 (1)