
Subject: how to calculate mcnemar statistics based on confusion matrix
Posted by [pulchowk-campus-alumn](#) on Wed, 19 Jun 2013 12:26:37 GMT

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Hi all,

I am trying to compare accuracies using two different algorithms using same training data. I thought McNemar test would be good option for this (http://en.wikipedia.org/wiki/McNemar's_test).

Those people who are familiar with that could you please elaborate me how to calculate it based on the confusion matrices that i got using two different algorithms.

My samples for different classes:

23711

6212

12219

8149

2874

5787

3169

6569

Confusion matrix from algo 1:

20867 401 8 966 0 131 171 1167

8 5400 116 263 2 423 0 0

0 0 12213 0 0 0 6 0

1734 80 30 5532 0 319 15 439

0 36 48 0 2681 109 0 0

36 99 80 444 0 5051 67 10

0 0 30 0 0 11 3104 24

1054 103 82 1540 2 809 731 2248

Confusion matrix from algo 2:

21166 40 14 435 0 226 231 1599

166 5637 134 103 0 155 0 17

55 1 12151 0 0 0 12 0

3019 49 38 4287 0 203 34 519

5 76 2 26 2508 252 5 0

387 131 66 211 0 4865 95 32

4 0 10 3 0 8 3135 9

1346 96 68 1849 0 354 776 2080

Now, how to calculate mcnemar statistics out of it.
