Calculating Stats

As one can see all statistics are in numbers not percentages.

There is also little explanation as to the specifics of the statistics.

Thus I must make some assumptions when I calculate the statistics that will be fed into the MLP model.

Note:

p = player

o=opponent

Statistic #1:

Winning percentage on first serve

Assumption #1: the 1stWon column for 1st serves won include aces.

Assumption #2: that a second serve does not count as an additional service point

1st serve wins = p.1stWon

Total 1st Serves = p.svpt

Statistic #2:

Winning percentage on second serve

Using Assumption #2

2nd serve wins = p.2ndWon

Total 2nd Serves = p.svpt-p.1stIn

Statistic #3:

Winning percentage on return serve

Using Assumption #2

Will use o to stand for opposite players

Assumption #3: A double fault does not count as a return serve win for the other player

Return serve wins = (o.1stIn-o.1stWon) + ((o.svpt-o.1stIn)-o.2ndWon-o.df)

Total Return Serves = o.svpt

Statistic #4:

Winning percentage on break point

Break points won = p.bpSaved

Total Break points = p.bpFaced