Github Dataset: <https://github.com/JeffSackmann/tennis_MatchChartingProject>

Our goal:

1. Put the data of the same player against the same opponent in a single CSV file
2. Then, keep all features that we also have in the UCLA player data
3. Then, modify our output variables so that we can run on the new dataset

| File name | Output variables |
| --- | --- |
| charting-m-points-2010s | firstServeIn\_per, secondServeIn\_per, Ace\_per, Total\_serve, firstServe\_unreturned, secondServe\_unreturned, serve\_and\_volley\_per |
| charting-m-points-2020s | firstServeIn\_per, secondServeIn\_per, Ace\_per, Total\_serve, firstServe\_unreturned, secondServe\_unreturned, serve\_and\_volley\_per |
| charting-m-points-to-2009 | firstServeIn\_per, secondServeIn\_per, Ace\_per, Total\_serve, firstServe\_unreturned, secondServe\_unreturned, serve\_and\_volley\_per |
| charting-m-stats-NetPoints | net\_per, net\_point\_direct\_win\_per, net\_point\_winning\_per, net\_point\_winByError\_per, net\_point\_error, passing\_per |
| charting-m-stats-Overview | firstServeIn\_per, secondServeIn\_per, ace\_per, total\_serve, forehand\_winner\_per, backhand\_winner\_per,  forehand\_unforced\_error\_per,  backhand\_unforced\_error\_per,  first\_serve\_won\_per,  second\_serve\_won\_per |
| charting-m-stats-Rally | Winner\_per, err\_per |
| charting-m-stats-ServeInfluence | First\_serve\_plus\_one, second\_serve\_plus\_one |
| charting-m-stats-ShotDirection | Inside\_in\_per, inside\_out\_per |
| charting-m-stats-ShotTypes | Shots\_in\_pts\_won\_shots\_in\_pts\_lost\_ratio |
| charting-m-stats-ServeBasics | pts\_won\_lte\_3\_shots |

**firstServeIn\_per**: The percentage of first serves that landed inbounds.

**secondServeIn\_per**: The percentage of second serves that landed inbounds.

**ace\_per**: The percentage of total serves that resulted in aces.

**first\_serve\_won\_per**: The percentage of points won on the first serve.

**second\_serve\_won\_per**: The percentage of points won on the second serve.

**forehand\_winner\_per**: The percentage of total points won through forehand winners.

**backhand\_winner\_per**: The percentage of total points won through backhand winners.

**forehand\_unforced\_error\_per**: The percentage of unforced errors made using the forehand.

**backhand\_unforced\_error\_per**: The percentage of unforced errors made using the backhand.

**net\_per**: The percentage of points in which the player approached the net.

**net\_point\_direct\_win\_per**: The percentage of net points won directly, likely without needing additional strokes.

**net\_point\_winning\_per**: The overall percentage of net points won.

**net\_point\_error**: The number or percentage of errors made at the net.

**passing\_per**: The percentage of successful passing shots (shots aimed past an opponent at the net).

**net\_point\_winByError\_per**: The percentage of net points won due to opponent errors.

**winner\_per**: The percentage of total winners (both forehand and backhand).

**err\_per**: The overall percentage of errors (both forced and unforced).

**pts\_won\_Ite\_3\_shots\_per**: The percentage of points won in rallies lasting 3 or fewer shots.

**shots\_in\_pts\_won\_per**: The average number of shots played during points won.

**shots\_in\_pts\_lost\_per**: The average number of shots played during points lost.

**shots\_in\_won\_vs\_lost\_ratio**: The ratio of shots played in points won to shots played in points lost.

**inside\_in\_per**: The percentage of shots hit inside-in (forehand or backhand directed inside the court).

**inside\_out\_per**: The percentage of shots hit inside-out (forehand or backhand directed across the court diagonally).



