

IS IT THE END OF THE ROAD FOR ROGER FEDERER?

Decline of Roger Federer

The above Static Visualization is about how Roger Federer has performed in the last decade's US open's Final. From the visualization we infer that Federer has reached the finals 5 times and emerged successful in 3 years (2006, 2007, 2008). From my analysis of the data provided, I found out that there was a significant decrease in his performance. To visualize what I analyzed I considered two factors which were very significant when compared to others. The factors were the Number of First Points Won and the number of Errors made. These 2 factors were very critical in his final outcome. During the years which he lost (2009, 2015) I found out that the number of first points he won was reducing a gradually and the number of errors he made were too high when compared to those he made during the victorious appearances. To visualize my findings, I introduced a new factor termed as the Success Factor.

Success Factor is the difference between the Number of First points won and the number of Errors made. So, the Success Factor was calculated for all his appearances in the finals and I fixed the Constant Success factor to be 30 and arrived at the conclusion that whenever his success factor is greater than 30, Roger Federer emerges Victorious. From my understanding the success factor plays a very crucial role and also acts like a confidence booster.

Visualization

After a deep understanding of the data presented and trying out a number of models for presenting the data, I chose to use the Stacked Bar Chart for visualizing the data as I found out that this was the most efficient model to visualize my findings. Data Labels were made visible on the chart so that there is a very clear and easy analysis of the data. From the last column in the chart, one can easily identify the success factor which is the most crucial factor in my findings. The lecture materials and the reference papers read earlier played a very crucial role in choosing the colors. I figured out that colors play a very important role in visualization. Hence I chose the colors green and blue and there was also another reason which made me choose these colors. I found out that these were the colors present on the US Open Court and I preferred these as I thought these colors would be the most relevant to this particular data. The third column, Success Factor is the cream of my findings and so I wanted to distinguish it clearly and hence used the color red for displaying the data. Using a small image of a Championship cup very next to the year which he won clearly visualizes the year Roger Federer reigned as the CHAMPION of the US OPEN