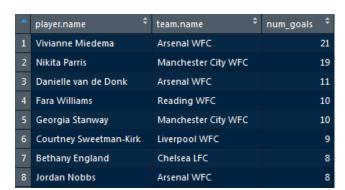
FC RStats First Analytics Challenge: Replacing Nikita Parris

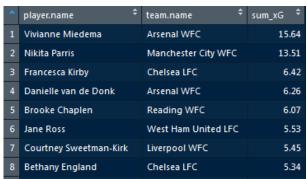
Ismael Gómez Schmidt, May 12th 2019 Twitter: @ismaelgomezs + @DatoFutbol_cl

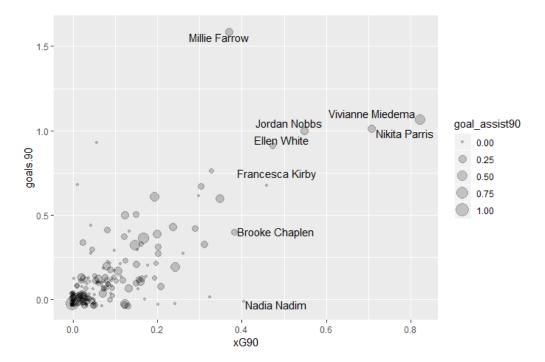
<u>Method</u>

The following steps were done:

- 1) First i got all event data from FA Women's Superligue Statsbomb free dataset and did all necessary parsing and transformation process.
- 2) Then, i calculated different metrics in order to explore the complete performance of Nikita along the season to use it as reference, including general information (number of matches, minutes played, goals, shots, passes, etc.) and the info more refined (xG, complete passes, assists, dribbles and their respective values per 90 minutes). Also i plotted a shotmap. Due my short available time, i didn't consider info about pressures, "juego de posición", heatmaps or another of this kind of analysis.
- 3) I wrote some own functions in R to facilite the metrics calculation for all those mentioned players and also for make visualization which do easier comparison between the performances.
- 4) After that, i defined 2 main criteria to get some candidates to evaluate performance and compare them with Nikita: a) Number of goals and, b) Sum of xG. This way i choose 6 players to after do a deeper analysis and rank them.





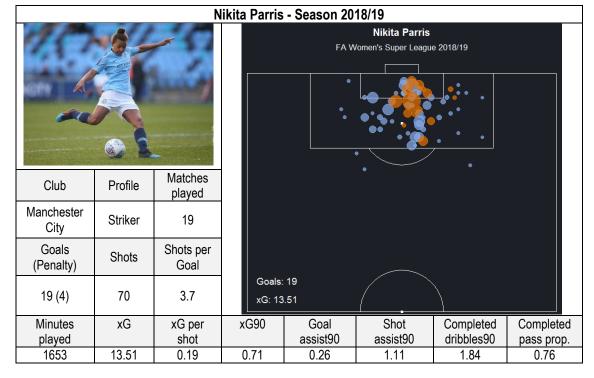


Since Nikita play mainly as forward i discarded players who play mainly as midfielders although these would have a good performance (Fara Williams y Danielle van de Donk). Also i discarded Georgia Stanway because she belongs to Manchester City as well.

5) Finally i discarded 4 players, seeing radar plots and priorizating this metrics: goals90, xG90, assist90, goal assist90, completed dribbles90 and completed passes proportion.

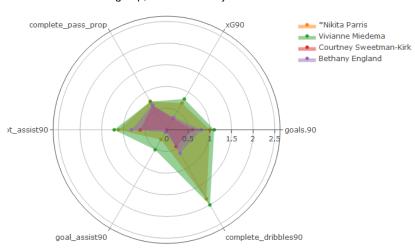
About coding skill, to do this work i used mainly dplyr pipelines, the mentioned own functions, and the following R packages: StatsbombR, Tidyverse, Soccermatics and Plotly.

Here you can find the complete code with details and comments. Enjoy it!

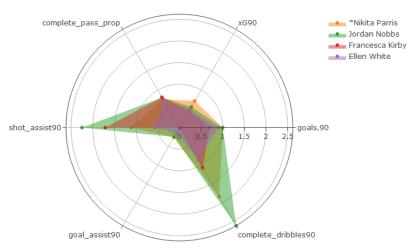


Comparison:

1st group, result: Courtney Sweetman-Kirk OUT



2nd group, result: Ellen White OUT



Final stage, result: Bethany England OUT (little differences related to Kirby's performance)

