

- Formative Phase:

Student Number: 113384116

- Title:

Using Neural Networks to Assess Passing Data to identify the dominant and intermediary players in the premier league.

- Sources:

[1] Florian Korte*, Daniel Link, Johannes Groll and Martin Lames 'Play-by-Play Network Analysis in Football' 2019

[2] "Premier League Stats Centre: Player Stats" [Online]. Available:
<https://www.premierleague.com/stats/top/players/goals?se=79>.

- Sketch of idea (1-2 paragraphs):

The aim of this project is to determine the importance of players in a selected team throughout a given season in the English Premier League based on a network-based analysis of each players passing stats.

Once a team/dataset is selected it will be necessary to identify the most frequent 11 and analyse the number of passes between each player in the network. This will be visually displayed in a weighted directed graph visual of the network.

Beyond this, we will form a rating system which lists the players in order of highest incoming passes and outgoing passing highlighting high value passing targets.