INFO 6205

Final Project

Ranking System

**Introduction**

**Statistical Football prediction** is a method used in sports betting, to predict the outcome of football matches by means of statistical tools. The goal of statistical match prediction is to outperform the predictions of bookmakers, who use them to set odds on the outcome of football matches.

The most widely used statistical approach to prediction is ranking. Football ranking systems assign a rank to each team based on their past game results, so that the highest rank is assigned to the strongest team. The outcome of the match can be predicted by comparing the opponents’ ranks. Several different football ranking systems exist, for example some widely known are the FIFA World Rankings or the World Football Elo Ratings.

There are three main drawbacks to football match predictions that are based on ranking systems:

1. Ranks assigned to the teams do not differentiate between their attacking and defensive strengths.
2. Ranks are accumulated averages which do not account for skill changes in football teams.
3. The main goal of a ranking system is not to predict the results of football games, but to sort the teams according to their average strength.

**Aim of the project**

The input to your system will be a set of prior encounters with a result. These results can be win-loss or they can be scores, as in for example the English Premier League (EPL). If appropriate, you may also consider home team advantage if you feel that it matters.

Finding final standing of the EPL if all the remaining matches were also played. Although Liverpool must end the season at the top of the table (it is mathematically impossible for any other team to pass them), the next five positions are important for the summer, as are the last three positions, which teams will be relegated.

**Dataset used for this project**

**Project Description**

**Implementation**

**Output**

**A screenshot of a cell phone

Description automatically generated**

**Conclusion and Future implementations**

**Reference**

1. Data Source: <https://datahub.io/sports-data/english-premier-league#data>
2. <https://en.wikipedia.org/wiki/Statistical_association_football_predictions>