

Predicting football results

Supervision Meeting 3

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Exploratory Data Analysis

In the following we want to analyse football results from the German Bundesliga, beginning with the season 2005/06, up to the season 2023/24. Data is taken from the website <https://www.football-data.co.uk/data.php>. Specifically, we want to create different models to predict the full time result of the individual games. From the perspective of the home team a game can have three different results: win, draw or loss. The result is given in the column “FTR” (Full Time Result). Furthermore, the result can be obtained by looking at the goals scored by the home and away team, respectively. This is given by the columns “FTHG” and “FTAG” (Full Time Home/Away Goals). The Bundesliga consists of 18 teams and one season has 34 matchdays. This leads to 304 games per season. We have data for 19 seasons available and hence 5814 entries in total. Since the bottom two teams of each season get relegated to the second league, we have 36 teams that played at least once in the German Bundesliga in the last 19 seasons.