Modelling Stadium Utilization

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Objective Of this Research

This research focuses on analyzing stadium utilization of all 20 clubs in the English Premier League 2018/19 season of all games played. In particular, this project tests the potential of different statistical models to predict stadium utilization based on home and away points per game, and total goals scored. Models including linear regression, logistic regression, and several general additive models were used and produced interesting results, yet the capabilities of these results are limited due to the lack of larger observations.

Data

The data utilized in this research comes from <whoscored.com> and we will try to focus on the three variables namely; Home & away points per game, and the total goals scored.

```
data <- read.csv(file = "~/Desktop/612 data.csv")
attach(data)
summary(data)
```