

required to choose players that fill these positions. For example, you cannot have a team of all point guards.

Project Details

The goal of my project is to help me choose my daily fantasy team's players by projecting the fantasy points they will score that night. I will build a linear regression model based on past performance and other factors such as home vs. away game, number of rest days, and opponents' defensive ratings and pace.

Data

The initial dataset I will use is described below. As I work on my project, the actual final dataset may differ as I discard less relevant features and think of more relevant features.

Variable	Type	Description
Yahoo Fantasy Score	float	Number of fantasy points based on Yahoo's scoring methodology
Box Score Statistics	int/float	Individual box score statistics such as: minutes, usage, points, rebounds, assists, steals, blocks, turnovers, +/-
Home vs. Away	bool	True if home game, False if away game
Opponent Defensive Rating	Float	Estimate of number of points a team's opponent scores per 100 possessions
Opponent Pace	Float	Estimate of number of possessions a team has per game

Considerations

There are a couple of considerations that must be acknowledged before running the model and interpreting the results.

First is the position of players. There is a possibility that the results differ based on a player's position. However, to get started, I will model the data ignoring any references to position.

The second is game script, which evolves as the game is played. For example, let's say the Warriors are playing a lowly team such as the Suns. This matchup would seem great for a player like Stephen Curry. He's a top fantasy producer and he's playing a weak team. However, at halftime, the score is lopsided with Warriors up 82 to 47. Coach Kerr of the Warriors may decide to sit Stephen Curry for the rest of the game to keep him healthy as he's not needed for the rest of this game. This would be harmful to Curry's fantasy production. If he's not on the court, he won't be able to score fantasy points. It would be difficult to account for these situations in a linear regression model.