

Review of Premier League Book Makers Markets Between Liverpool and Manchester United

- **ESL Soccer Database via from 2008 - 2016**
<https://www.kaggle.com/hugomathien/soccer>
DB Notes: mysqlite, 298M, 26K match rows, 11 Countries, 11 Leagues, 11K Players, 299 Teams
- **Refactored to PostgreSQL, maintaining relations and hosted in an Amazon RDS instance, sharing the connection string**
- **In that job I took interest in the Book making data in the set I wanted to see visually what that data said and I used Ordinary least squares linear regression to review the set. Not surprisingly all the slopes were positive**
- **GOAL!!!! Given this Rivalry - Can we predict the next game Odds for Win Lose or Draw**
- **Liverpool and Manchester Played 16 Matches**
Liverpool Overall only won 37% of 16 matches over the 8 year period. Manchester won 56% of 16 matches overall but the won a whopping 75% of home matches to Liverpool's 50% of home matches
- **The data represents the decimal odds that the Home or Away team will Win Lose or Draw**
A value of 2 plotted meant the bookie is showing a 50% Chance of the home team winning.
A value of 5 plotted means the bookie is showing a 20% Chance of the home team winning. A 5 plot also suggests the odds could be called 4/1 in the fractional format.

- The sets are interesting in their difference both amongst themselves and between the two teams. The Liverpool odds of having a draw were usually considered to be at 30%
- 3 sets of Markets -
 - a) Home team Odds to Win
 - b) Home team Odds to Draw
 - c) Home team Odds to Lose
- Seeing the Combined Overlays together for Either teams Odds when they are at home also tells a story I believe. Liverpool is clearly not as strong of a team as Manchester United but the odds also show over the years that DRAWS are rarely predicted with a high chance of probability.

Dan C.
DS Bootcamp
8/5/2021