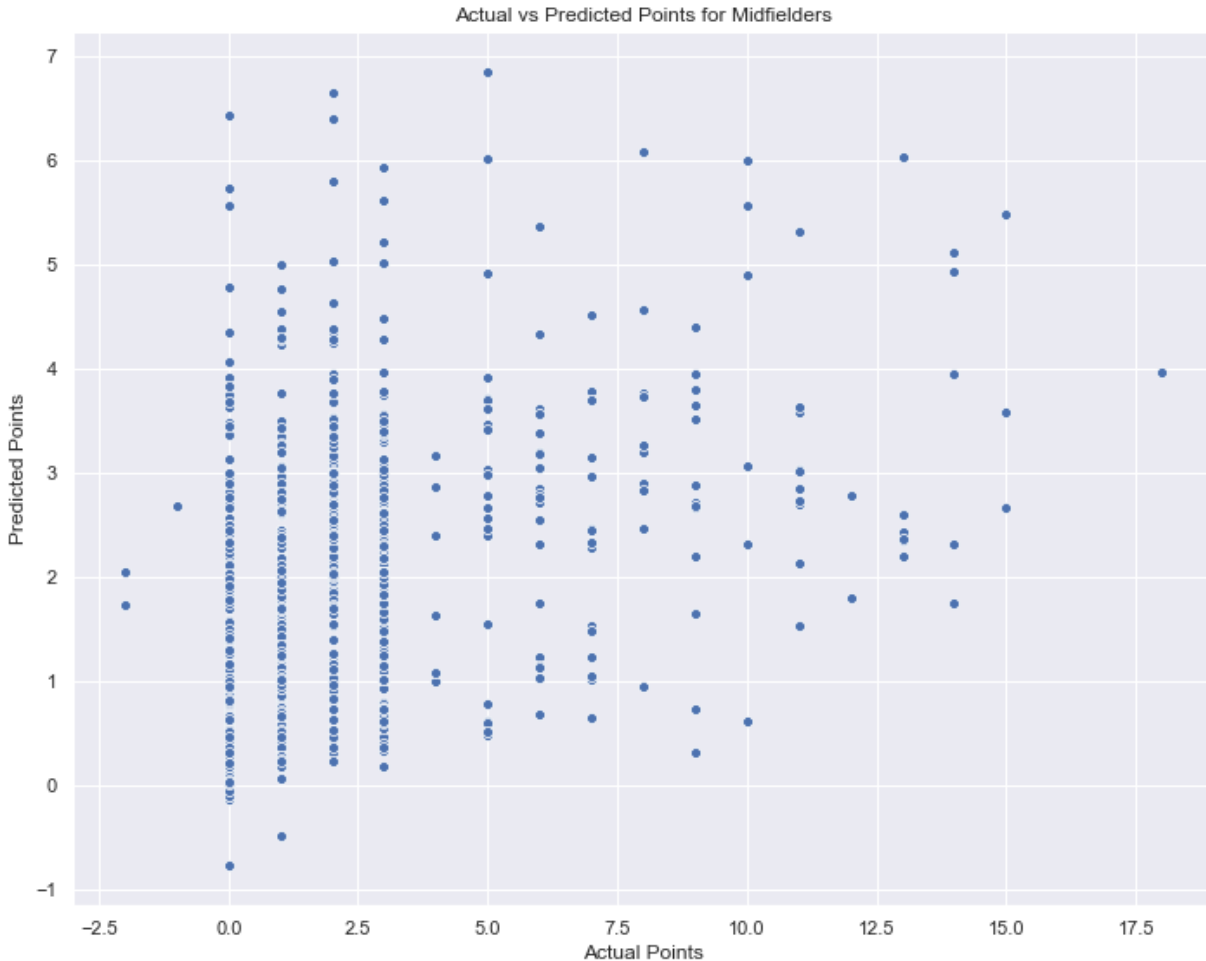# Fantasy Premier League Prediction

My goal is to use previous gameweek stats to predict fantasy points of a player for the next gameweek stats with linear regression model.



Here, I trained my data on a simple Linear regression model using both simple linear regression and 5-fold cross-validation techniques. The model had an $R^2$ score of approximately .29 on both techniques and as also shown in the scatter plot above. This clearly indicates the model is underfitting as it is not complex enough to capture the relationship between my dependent variable and independent variable.

Moving forward, I will be using various techniques such as feature engineering with some polynomial features and adding some categorical variables. I will also be training the data on other regression models to help capture these relationships to get the desired results.