**Baseball Analytics**

1. Baseline Metrics: collect statistical data of each individual & team from pitch f/x package in R to model a baseline metric to calculate the expected number of wins for a given baseball team. Data are trained by the neural network machine learning algorithm to quantify the weight of each variables (i.e. ERA) to be put into formula that projects number of wins.

2. Chemistry Metric: Compared with the baseline metric, it will output an expected effect on the number of wins by team-chemistry related factors. Attribute matrices include role-markups, MBTI matrix, and on field markers. On field markers are also used as validation for the expected values.

3. Minor to Major League Transition: Quantify factors of minor league players that will have an effect on their chances of transiting into major league.

4. Batting Ratio