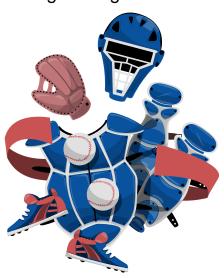




Data Source

The Data is taken from www.retrosheet.org

Negro League Data



American League & National League



Overview

Problem Statement

Can we predict who will win the future scheduled baseball games?

Proposed Vision

Based on the physical aspects like the ballpark location, game type, day night etc., and the players and team's dynamics using statistics, build a machine learning model to predict the win or lose for that scheduled day.

Impact

The Impact of this solution is how much hard the team need to prepare based on the opponent and other factors for that scheduled game? Like How many wild pitches allowed? How many balks allowed? How many triples allowed? Before you forfeit or lose ...

Build a Model To Predict Win Or Lose



Data Cleaning

Remove Nulls, Nans and Impute



Pre-Process

Scale the data, Check for multi-collinearity



EDA

Statistics, Co-Relations, Characteristics



Train & Test Model

Fit data into feature dimensions & Test



Train/Test Split

Split the data into 2 portions



Improve

Go back and refine features of the data







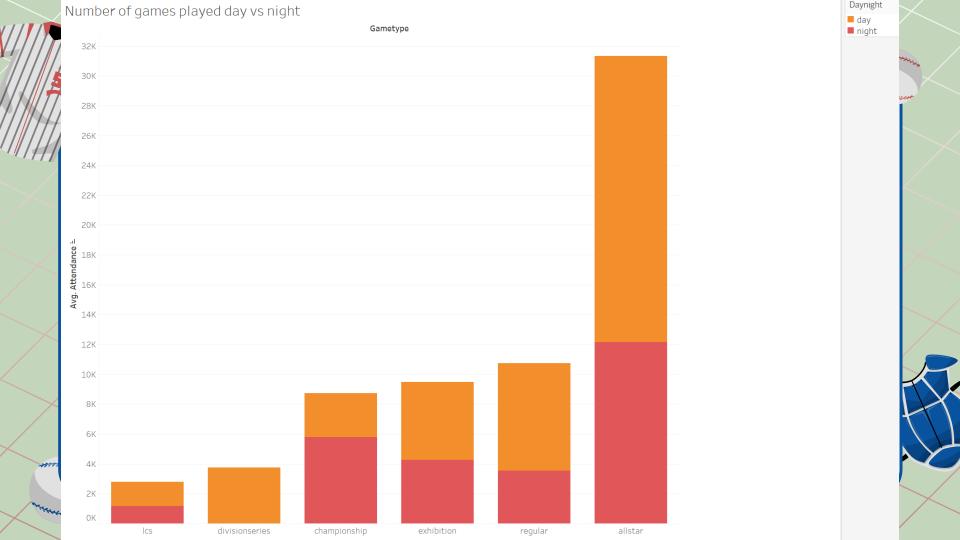


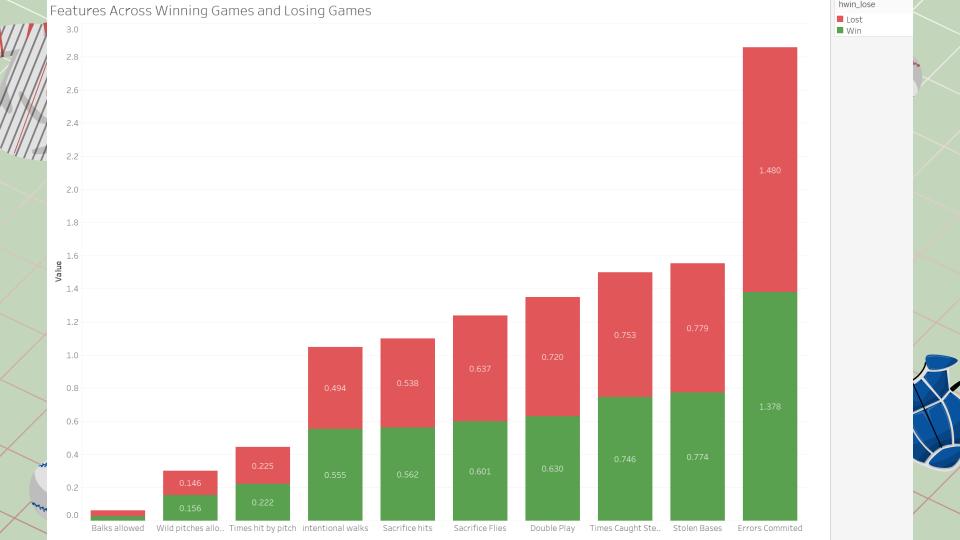
Stolen Bases Double Play Wild Pitch

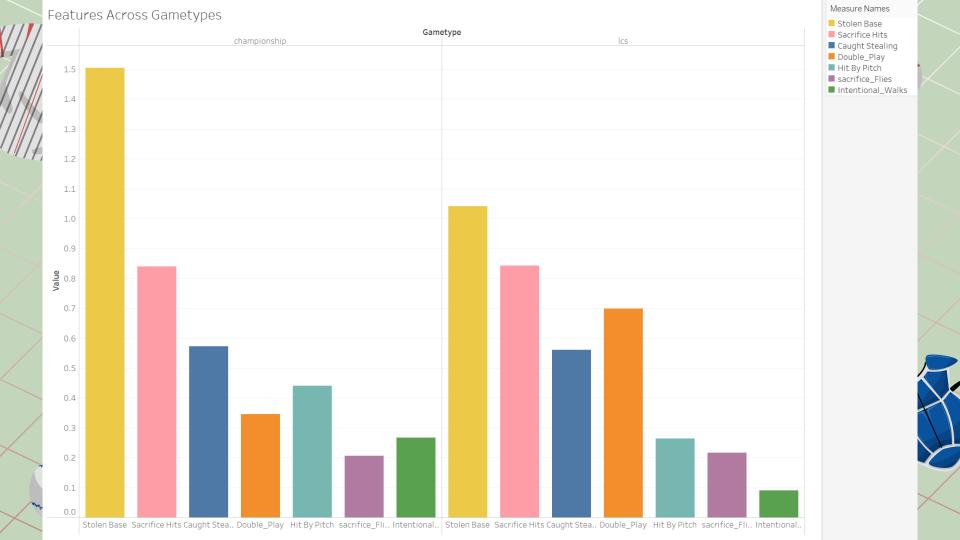
Sample data – So Many Measures

Home Team	Day Night	Game Type	Site	b_sh	b_sf
PHG	Day	Championship	CHI09	3	1
CUX	Night	Regular	NYC22	0	0
CAG	Day	Exhibition	IND11	2	0
NYL	Day	LCS	DET07	3	1









Next Steps



Data Process

MLB Data Load to Database, EDA and **Preprocess**



Feature Engineering Base Model

Time Series, PCA



Logistic Regression with Ridge and Random **Forest**