Pitch DS Futbol Baseball Analytics

Connor Anderson | Werlindo Mangrobang 2019.05.31

Our Value Proposition

Leveling up broadcasting companies with predictive products.

Predictive Products

1. What's **that** pitch?

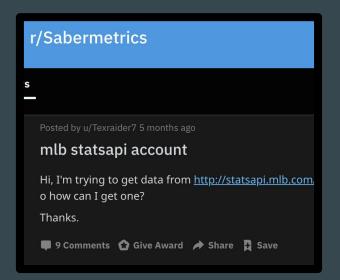
2. What the **next** pitch?

Data Source

- Major League Baseball Stats API
 - o http://statsapi.mlb.com/

MLB-StatsAPI o.0.8

pip install MLB-StatsAPI Copy to clipboard



Data Source

Who	Seattle Mariners
When	2018 Regular Season
What	Play-by-play feed, individual pitches.
How	API + Python Wrapper

Classifying Pitches:

- Spin Rate
- O Break Angles
- Break Length



What's that pitch? | Pitch Classification

Advantages:

- Engage viewers
- o Enhance graphics
- Stay current



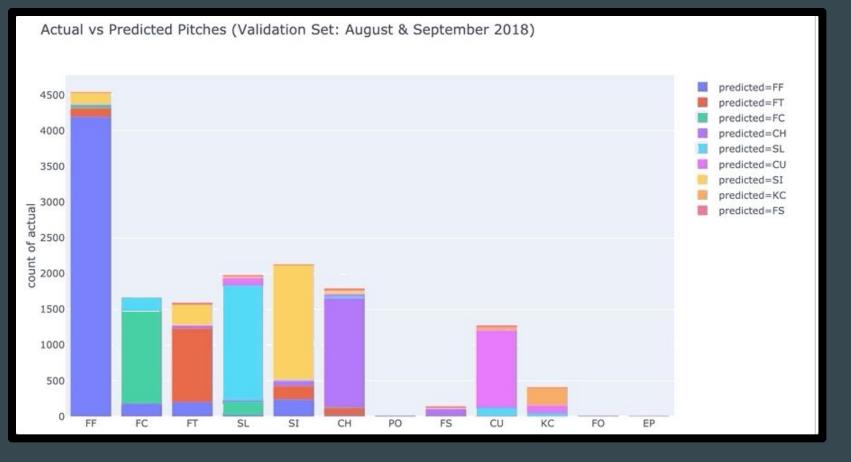
What's that pitch? | Pitch Classification

- Accuracy: > 85%
- MLB Average ~ 55%
 - Fastball

AUC: 0.829

Average Cross Val Score, k=5 0.871

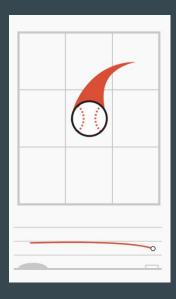
What's that pitch? | Pitch Classification



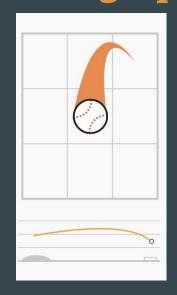
What's that pitch? | Pitch Classification

Game Situation:

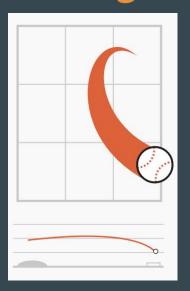
Fastball



Changeup



Breaking Ball



Game Situation:

- Outs | Balls | Strikes
- Handedness
- Previous pitch

Advantages:

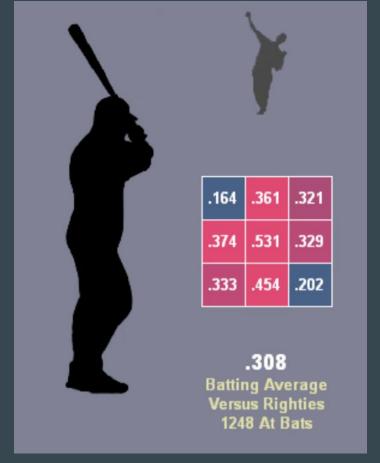
- Tally App
- Live Events => future

Still in development!

- Accuracy:>0.60
- AUC:>0.50

Improvements

- Hitter Hot/Cold Zones
- Pitcher Cluster



Thanks. Go M's.

