MLB Statcast Data

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Understanding The Game of Baseball for our Model





Our Problem:

Predicting the Outcome of any MLB Plate Appearance

(Hitter vs Pitcher Matchup Outcomes)

Data

MLB Statcast Data - <u>Baseball Savant</u>



Potential Next Steps

- Add more data on individual player stats / change clusters
- Add data on players' production in the past week
- Change format for outcome prediction / be able to compare to test set
- Make it update with different pitches/counts
- Instead, try to predict players' average in 2021 given 2020, 2019, 2018 stats
- predict era, k/9, whip, etc. off the spin rate and average velo of each pitch by pitcher; same for offensive stats and exit velo, launch angle, etc.
- Data Viz Idea: Every player how they do against every pitch (and how often they see it) in 1 chart that is easy to understand
- Something like this: figure out which pitches pitchers should throw more often or which pitches hitters should sit on

EDA

Clustering (Unsupervised Learning)

Modeling (Supervised Learning)

Results & Interpretation



Further Applications & Development

Thank you for listening! Any Questions?

