



ALPB Slugger Pitching Widget

A comprehensive widget that provides easy access to Pitching Data on Gamedays for the Atlantic League of Professional Baseball

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Developed for the Atlantic League of Professional Baseball



JOHNS HOPKINS
WHITING SCHOOL
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Introduction

The Atlantic League of Professional Baseball installed Trackman cameras to collect pitching and hitting data starting in 2021. However, this data is often not presented in an easy or intuitive way for players and coaches.

Furthermore, general baseball pitching statistics such as ERA, Strikeouts, Walks, Hits Allowed, and Innings Pitched are contained in a separate database, currently hosted by Pointstreak and soon to be migrated to iScore.

Between the complicated nature of the pitch data and the separation of important information between two places, there was a missing middle ground to make the data accessible to those who need it: the coaches, pitchers, and management of the Atlantic League.

Objectives

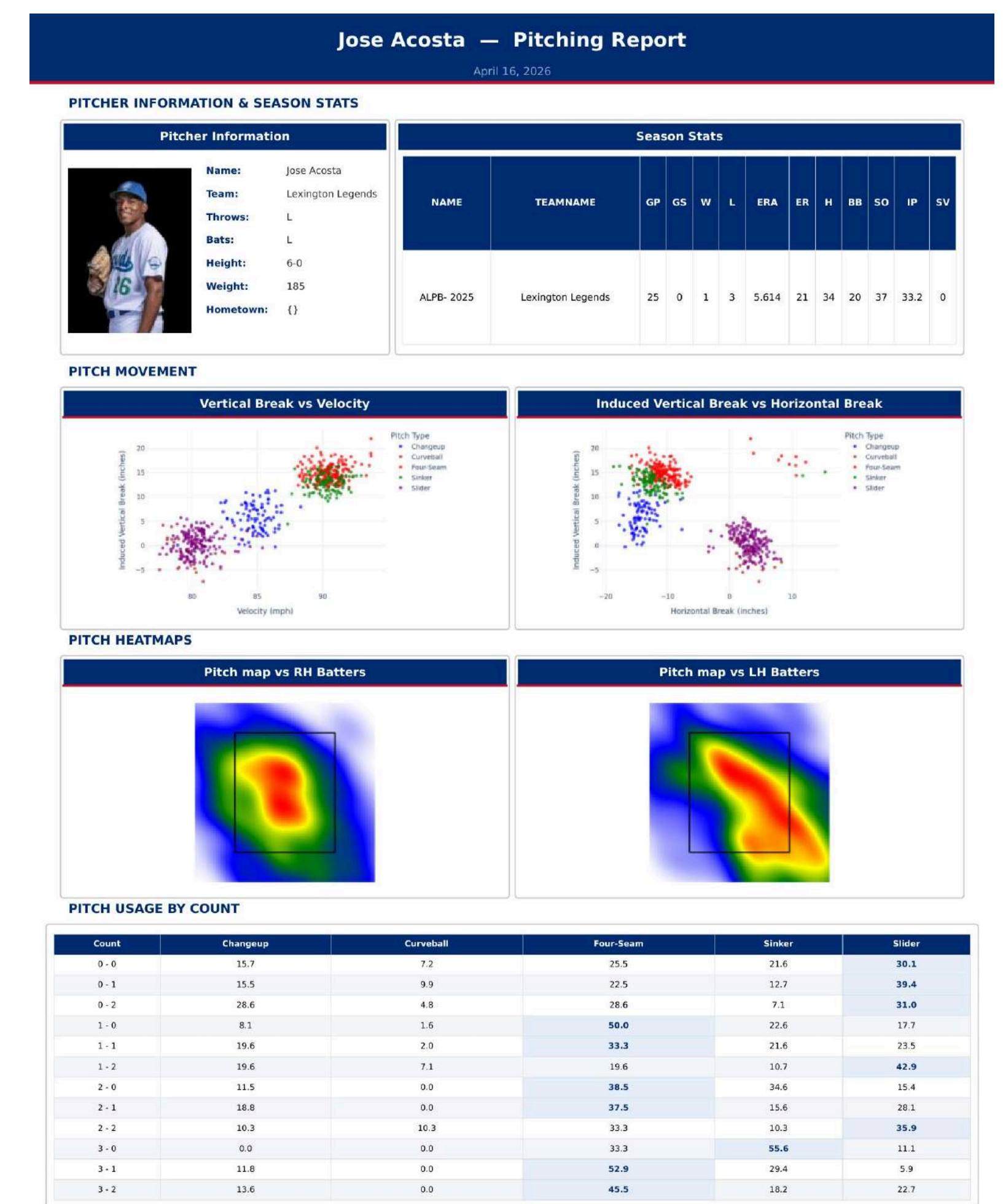
The SLUGGER Pitching Widget is a platform which bridges the gaps between players and easy access to the data that they need on gameday.

We set out to pull all the data related to pitching and display it in one complete and easy to access page for every Atlantic League team to use. One important feature we needed was to allow for visuals and important statistics to be formatted onto a PDF which could be printed and used in the dugout.

When a batter or a coach is scouting an opposing team's pitcher, we needed them to understand what location, velocity, movement, or pitch type they may face. This allows a hitter to adjust their approach to a particular at-bat, or a coach to decide to pinch hit in certain situations.

Features

- Every pitcher has their **own page** which **displays useful information** about their performance, both simple and technical.
- At the top of the page, an easy chart of a player's **past and present season statistics** pitching in the ALPB is displayed.
- Unique movement charts are created with the pitch data, comparing **Horizontal Break, Induced Vertical Break, and Velocity**.
- The widget contains **heatmaps** which show where a pitcher is prone to throw the ball to a batter, whether right-handed or left-handed.
 - Heatmaps can be for every pitch thrown to a right-handed or left-handed batter, or **customized** to see where a pitcher locates **one specific pitch type**.
- At the bottom of the page, there is a detailed **chart** of a player's typical **pitch selection in each count** of an at-bat. The most thrown pitch is bolded so that a hitter will know which pitches they may face.
- Most importantly, all of this information is **downloadable** in a neatly formatted PDF, with the option to get a **specific player's page** or **an entire team in one file**.

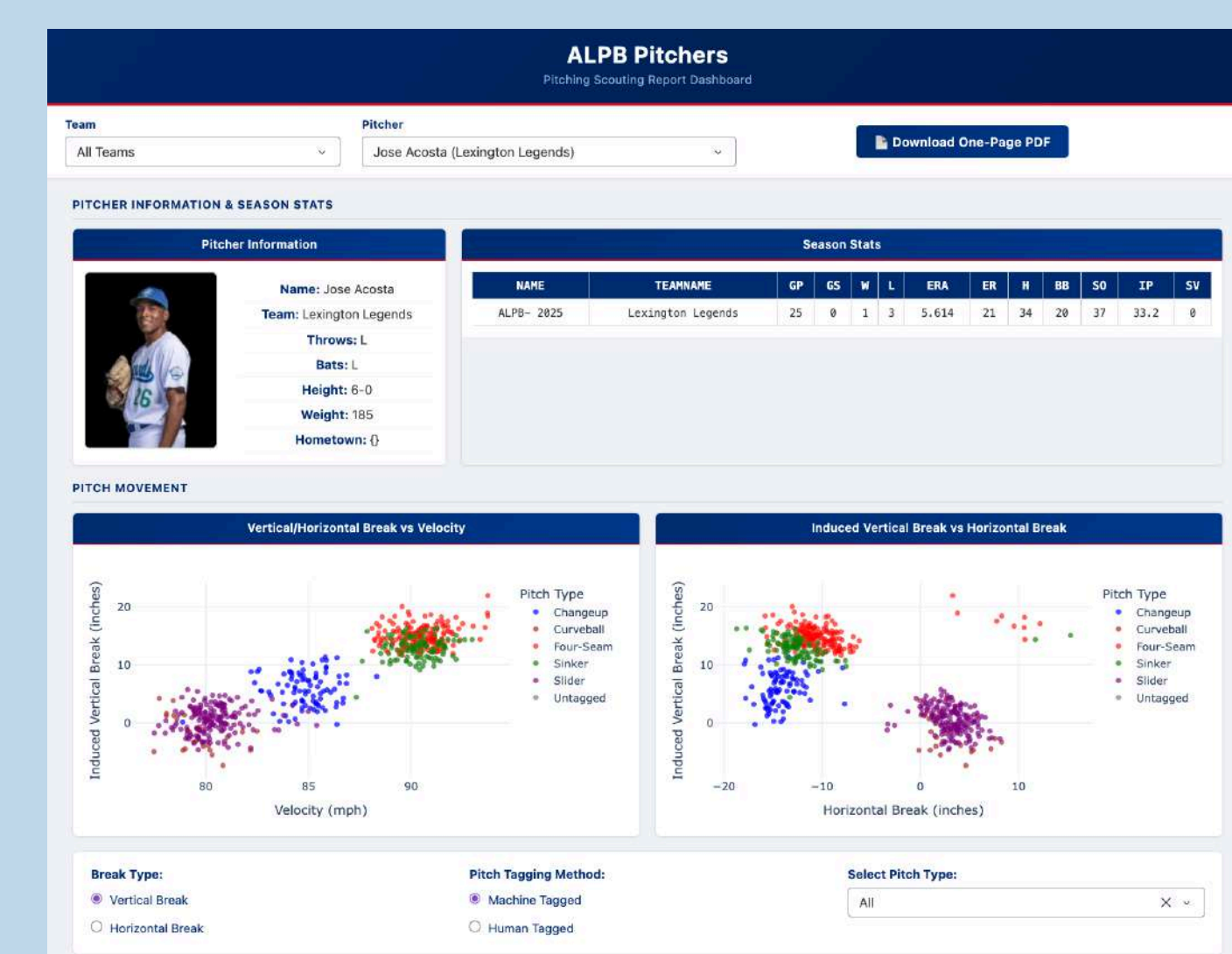


Pitching Profile PDF Download

One of the most important features of the Pitching Widget is the ability to download a one-page PDF such as the one pictured above

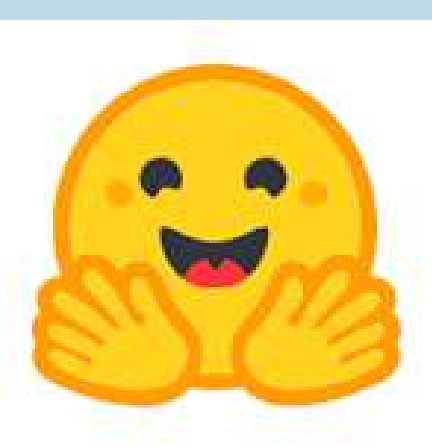
What comes next?

- The pitching widget is a **Live App** that will update every time new data is uploaded from **Trackman, Pointstreak, or (coming soon) iScore**
- As this upcoming season progresses, we plan to **add more features and visuals** depending on the requests of players and coaches.
- We also plan to add features to view statistics for **Previous Seasons and Rosters**



Landing Page for the SLUGGER Pitching Widget

Materials and Methods



- **Player Rosters and Season Statistics** pulled from **Pointstreak**
- **Pitch Level Data** provided by **Trackman**
 - Hosted and accessed via the **SLUGGER Platform Management** team
- App hosted and written in **Python**
 - Plots created using **Plotly** and **Matplotlib**
- Future iterations of the Widget will be pulling Season Statistics via **iScore**



Slugger Pitcher Widget

Pitching

Edit

Launch 164



Launch Icon within SLUGGER

More Info

The SLUGGER Pitching Widget will be available for use for all ALPB players and coaches for the 2026 season and beyond



ALPB Analytics Website