

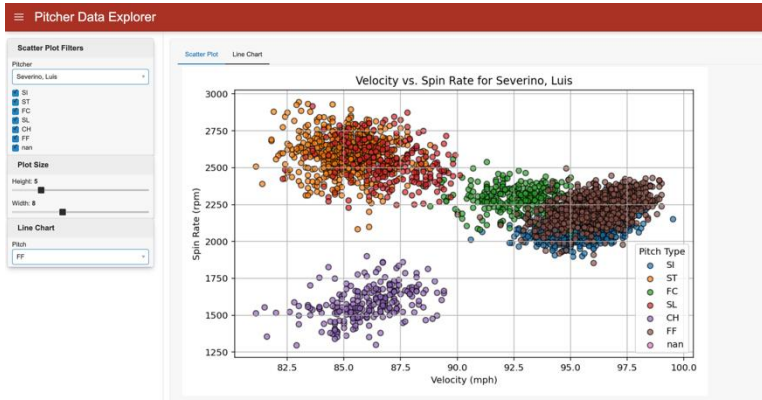
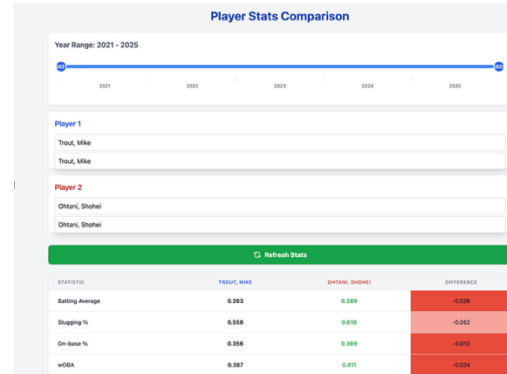
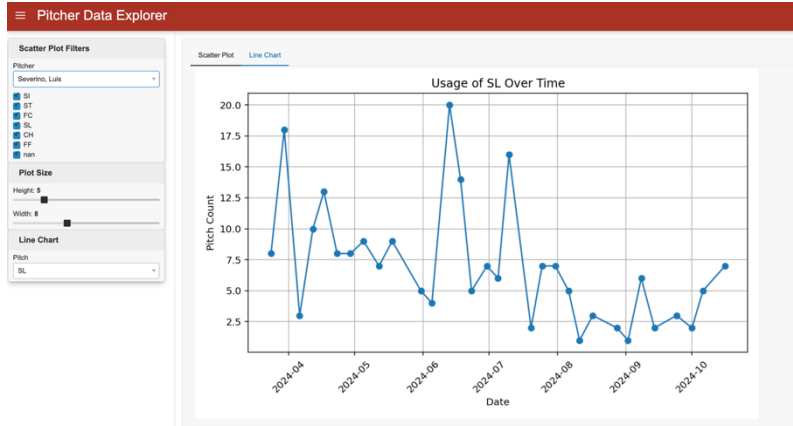
MLB PITCHER DATA EXPLORER

Tim Matten

MY DASHBOARD: My dashboard (2 images on the left) is one that analyzes MLB pitch data. The data consists of metrics on every pitch thrown in the 2024 MLB season including the pitcher that threw it, its speed, etc. I made a scatter plot that aggregates the pitches thrown by one selected pitcher and plots them colored based on the type of pitch it was (fastball, curveball, etc.). The second tab is a line chart that tracks that same pitcher's usage of a selected pitch over time. Each chart's size can be adjusted with sliders.

AI DASHBOARD: Claude's dashboard (2 images on the right) is one that takes two MLB batter inputs and compares their statistics from 2021-2025, or any selected range using the slider.

THOUGHTS: In terms of ease to develop, Claude takes the cake as it understand plain English and can translate it into code in minutes. However, there are way more pitfalls that make this unusable. I needed to use a completely different dataset since the one I used to make my own dashboard was too large for Claude to handle. There were also numerous bugs that Claude refused to fix no matter how much I begged, such as the autocompleted names disappearing after it is selected (shown in image). And the statistical calculations are so incredibly wrong such as Shohei Ohtani's 916 home run in a 5-year stretch (this is impossible to do in a 20-year career). I am honestly very proud with how my dashboard came out. I think it beautifully uses the large set of pitch data to coherently lay it out in a way that lay users can understand. Although I couldn't use Claude to wish my dashboard into existence, the hard work put into it was worth it as it clearly made the better dashboard.



Expected wOBA	0.392	0.429	-0.038
Avg Launch Speed	88.7 mph	94.7 mph	-6.0 mph
Avg Launch Angle	21.2°	14.4°	+6.8°
Hard Hit %	48.0%	56.2%	-8.2%
Barrel %	12.3%	13.7%	-1.4%
Strikeout %	32.3%	27.4%	+4.9%
Walk %	12.7%	11.5%	+1.2%
WHIP %	28.6%	31.1%	-2.5%
BADP	0.336	0.344	-0.008
ISO	0.296	0.321	-0.026

Trout, Mike Additional Info: PA: 5284, AB: 4976, HR: 1231, RBI: 355

Ohtani, Shohei Additional Info: PA: 12668, AB: 11456, HR: 3393, RBI: 916

How to read this comparison:
Green text indicates the better value between the two players.
Green background in the difference column shows positive difference (more intense = larger difference).
Red background in the difference column shows negative difference (more intense = larger difference).