



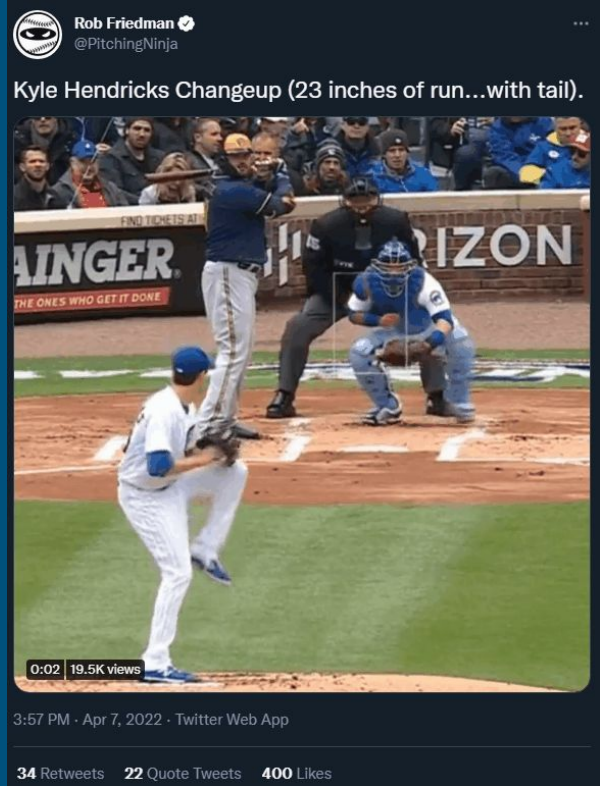
The Filthiest

Dayv Doberne

The Filthiest



- Inspired by PitchingNinja



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- Use ML to determine unhittable pitches

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- Use ML to determine unhittable pitches
 - Deploy model to app
 - App returns best results on daily basis

Data



Data



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 - Outcomes: Strike, Ball, Foul, In Play

Data



- RandomForestClassifier
 - Strikes vs. In Play
 - ++: Fastball, Slider, Curveball
- predict_proba gives us FiFaX

Data



FiFaX

Data



FiFaX

(Filth Factor eXpected)

Data



FiFaX

(Filth Factor eXpected)

Strikes

Strikes + In Play

Data



Script

Scrape
Clean
Predict

Data



Script

Scrape
Clean
Predict

Store

Data



Streamlit

Script

Scrape
Clean
Predict

Store

Filter
Sort
Visualize

Product



<https://share.streamlit.io/ddoberne/the-filthiest/main/display.py>

Pitch type:

4-Seam Fastball

Sort by:

FiFaX

Select index:

1

Pitcher search:



Show hitter victories instead

The Filthiest

The top 5 4-Seam Fastballs from MLB games on 2021-9-1, sorted by FiFaX.

	Pitcher	Batter	Velo (mph)	RPM	VBreak	HBreak	FiFaX
1	Nick Snyder	C.J. Cron	99.1	2447	7	9	0.793
2	Aroldis Chapman	Phil Gosselin	99.6	2402	8	7	0.778
3	Jordan Romano	Ryan Mountcastle	99.3	2533	5	4	0.777
4	Genesis Cabrera	Asdrubal Cabrera	99.0	2363	8	6	0.773
5	Jordan Romano	DJ Stewart	98.4	2479	7	8	0.767

Nick Snyder's fastball to C.J. Cron in inning 6, 0-1 count.

NEWS

SCORES

STATS

SCHEDULE


FILM ROOM

POWERED BY Google Cloud

Who's your beneficiary?

Globe Life Field

CHOCTAW CASINOS & RESORTS



0:02

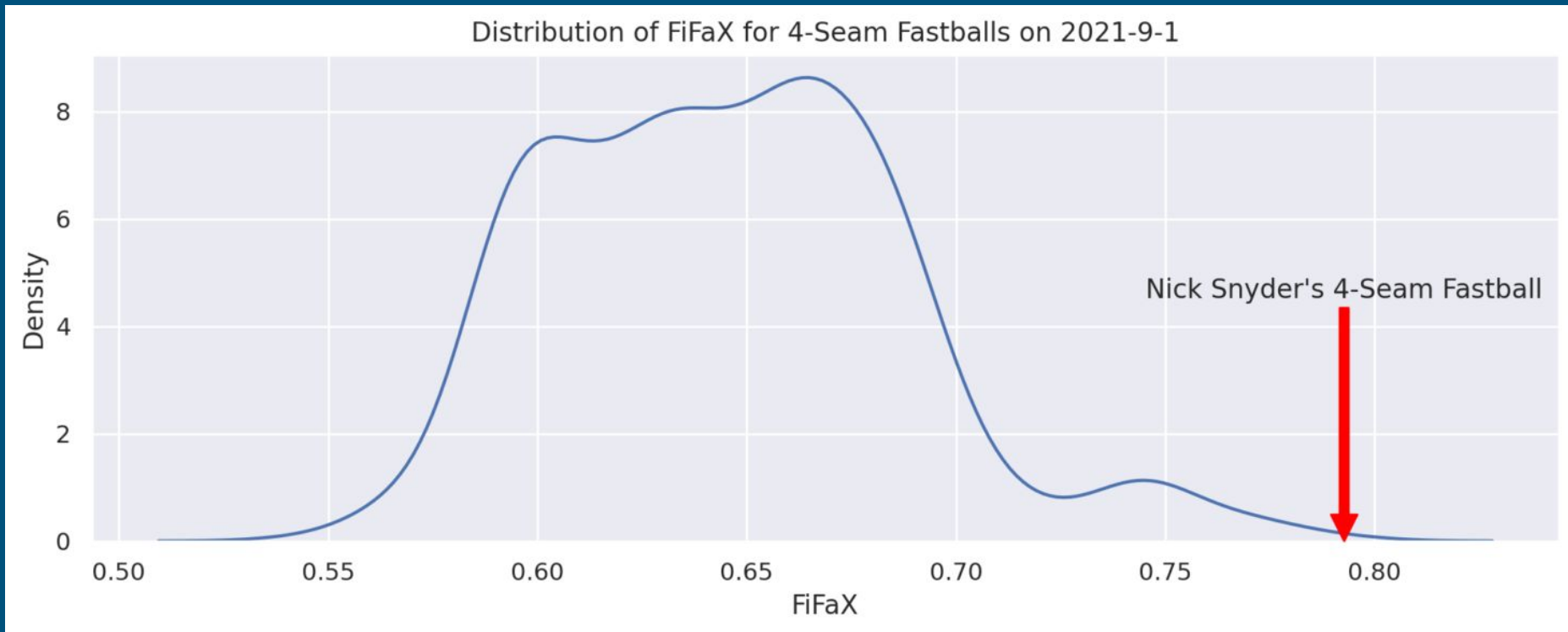
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5 CRON 0-2

SNYDER P 1

0:06

Product



Product

-
- Future features
 - Select by date

Product



- Future features
 - Select by date
 - Overall evaluations of individual pitchers

Product

- Future features
 - Select by date
 - Overall evaluations of individual pitchers
 - Batting Samurai?!?



Thanks for listening!

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