Predicting Workload for Pitchers

Dayv Doberne

STATCAST
POWERED BY Google Cloud
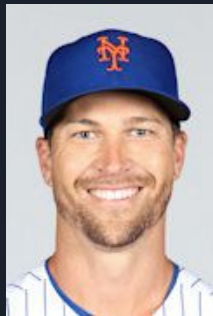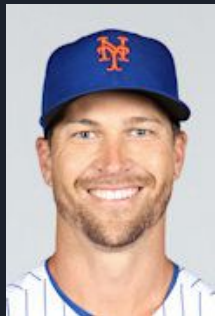
Comparison

2021:

➔ 99+ MPH
➔ 373 ERA+
➔ 92 Innings Pitched
➔ $35M salary

Comparison

2021:

➔ 99+ MPH
➔ 373 ERA+
➔ 92 Innings Pitched
➔ $35M salary

2015:

➔ 90 MPH
➔ 91 ERA+
➔ 194.2 Innings Pitched
➔ $11M salary

Comparison

$112.5 Million

Comparison

$112.5 Million

Comparison

$553 Million!!!

$112.5 Million

Target: Innings Pitched

baseballsavant.mlb.com

savant

Old:

- Age, G, IP, ERA, K%, BB%

baseballsavant.mlb.com

savant

Old:

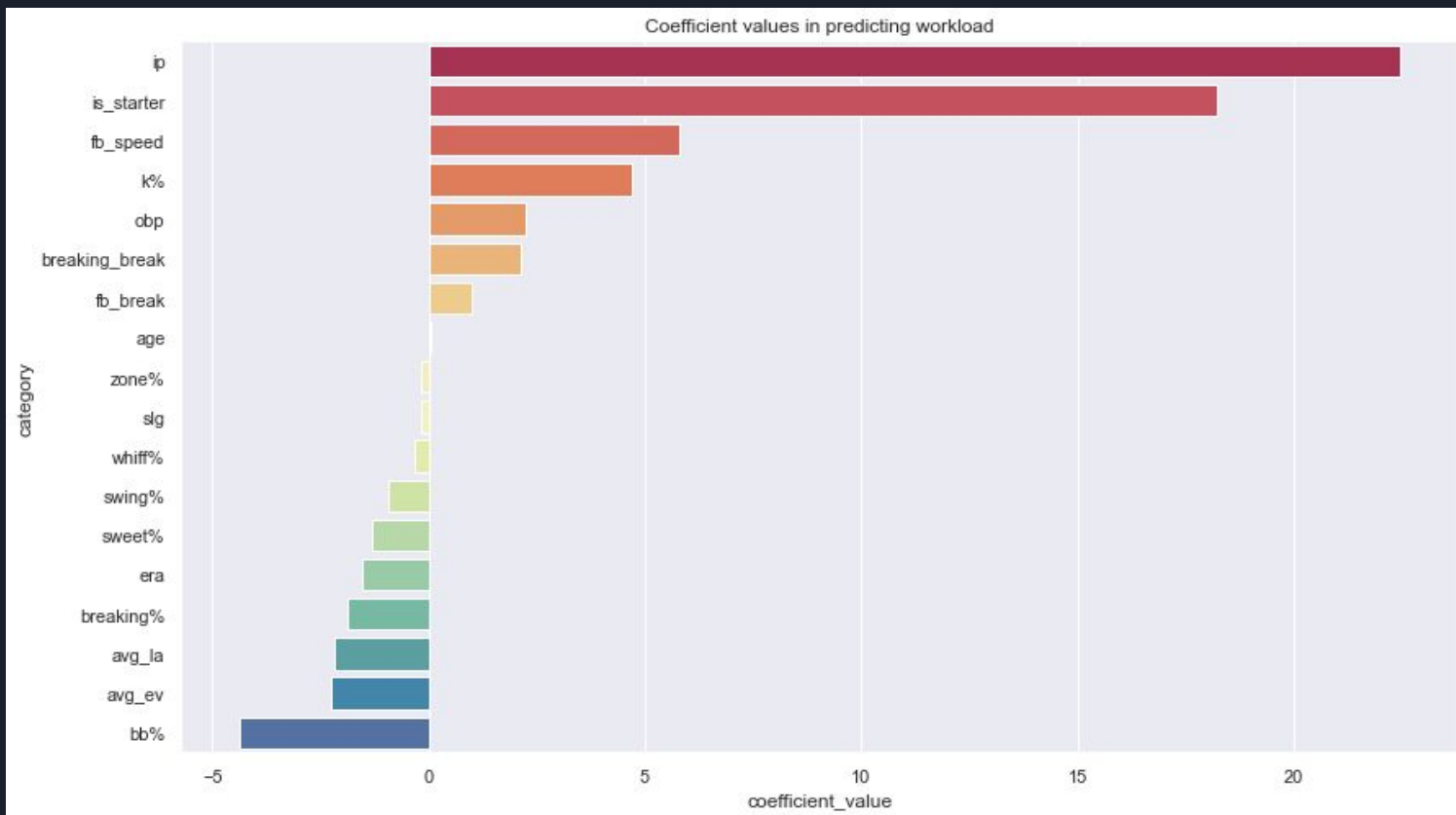- Age, G, IP, ERA, K%, BB%

New:

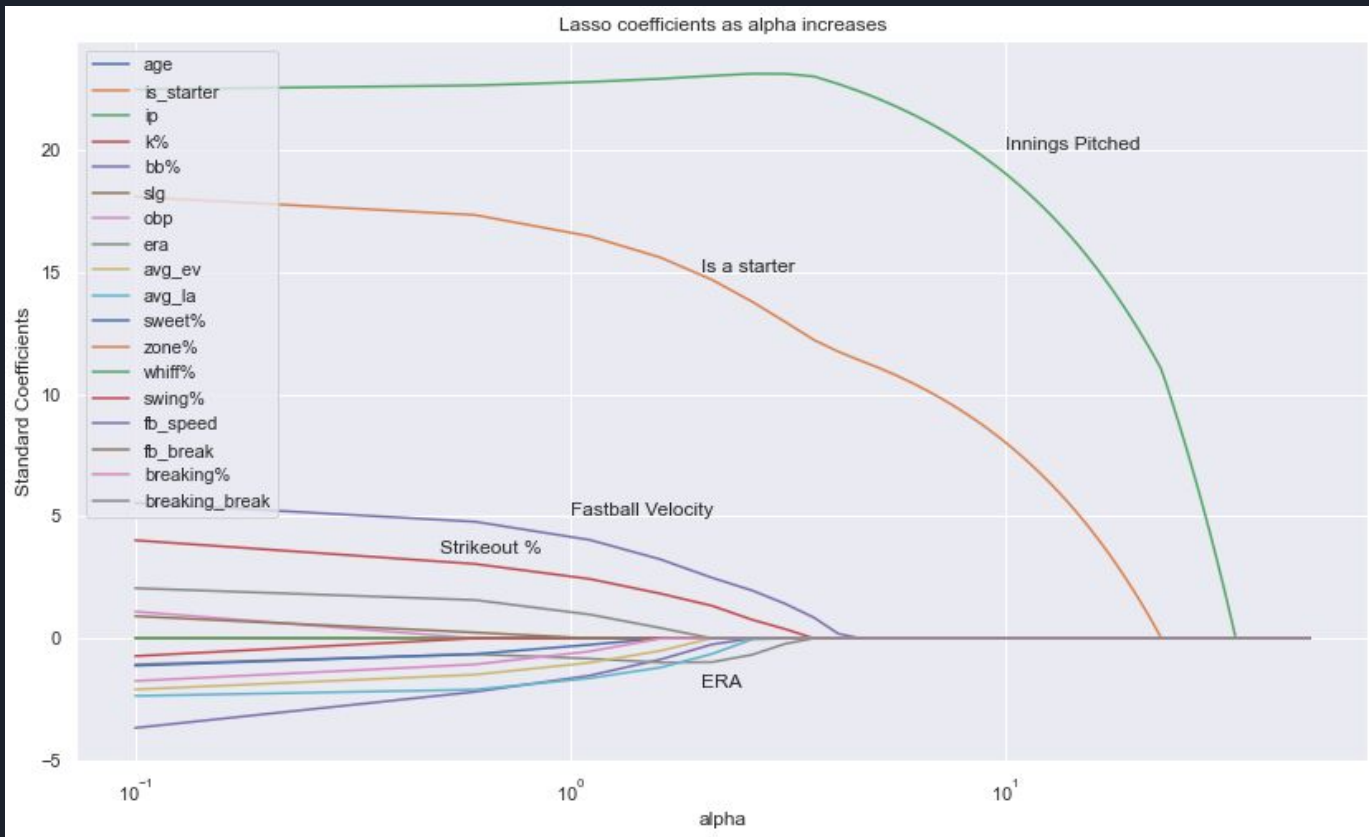- Avg EV
- Sweet Spot %
- Whiff %
- Breaking Avg Break

Results

Results

Coefficient values in predicting workload

Results

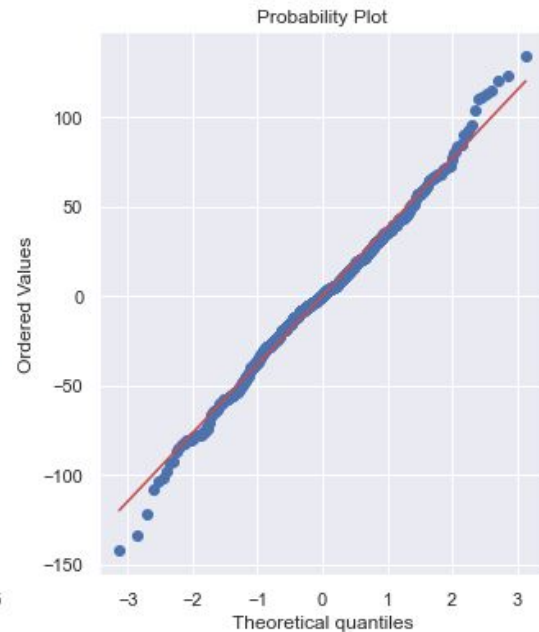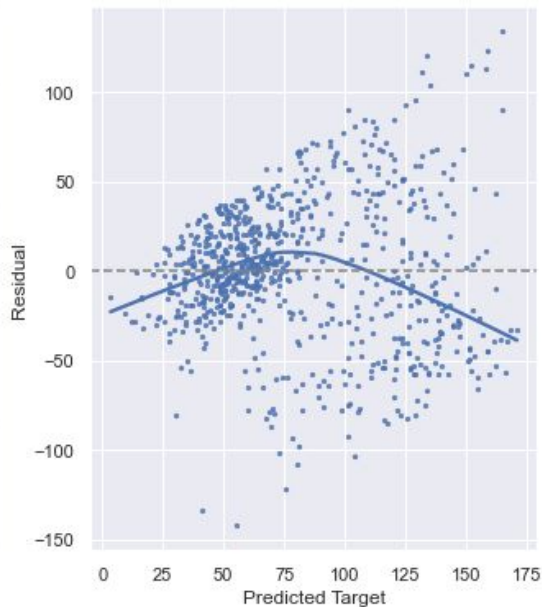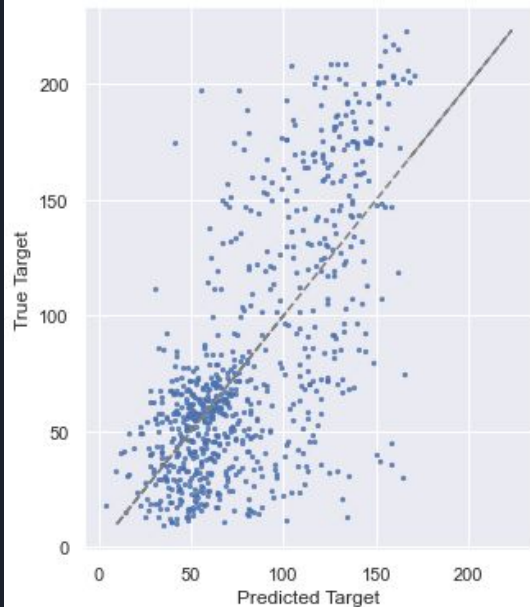
Lasso coefficients as alpha increases

Results

Diagnostic Plots

Insights?

➔   Volatility

➔   IP

➔   K%, BB%

➔   FB Velo!

➔   LA, EV, Break

Topics for future investigation

➔ Quantile regression
➔ Injury history as feature
➔ Different target

Questions?