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A male tennis player with a beard and white cap is shouting with his mouth wide open. He is wearing a white zip-up vest over a grey shirt and green shorts. He has tattoos on his arms. The background shows a tennis court with a red baseline and some spectators.

TENNIS PREDICTIONS

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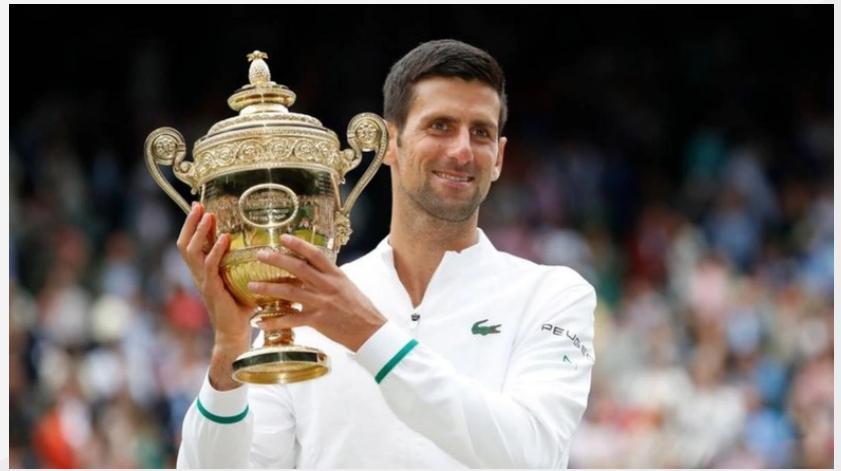


BUSINESS PROBLEM



Identify winning
aspects of a match

Use these features
to predict the
winner



Valuable to
tennis community
and gamblers

DATA

- Data from Tennis Abstract
- Has match records, game statistics, and player stats



METHODS

- Remove unnecessary data
- Organization
- Restructure in terms of favorites
- Used average stats to base predictions on



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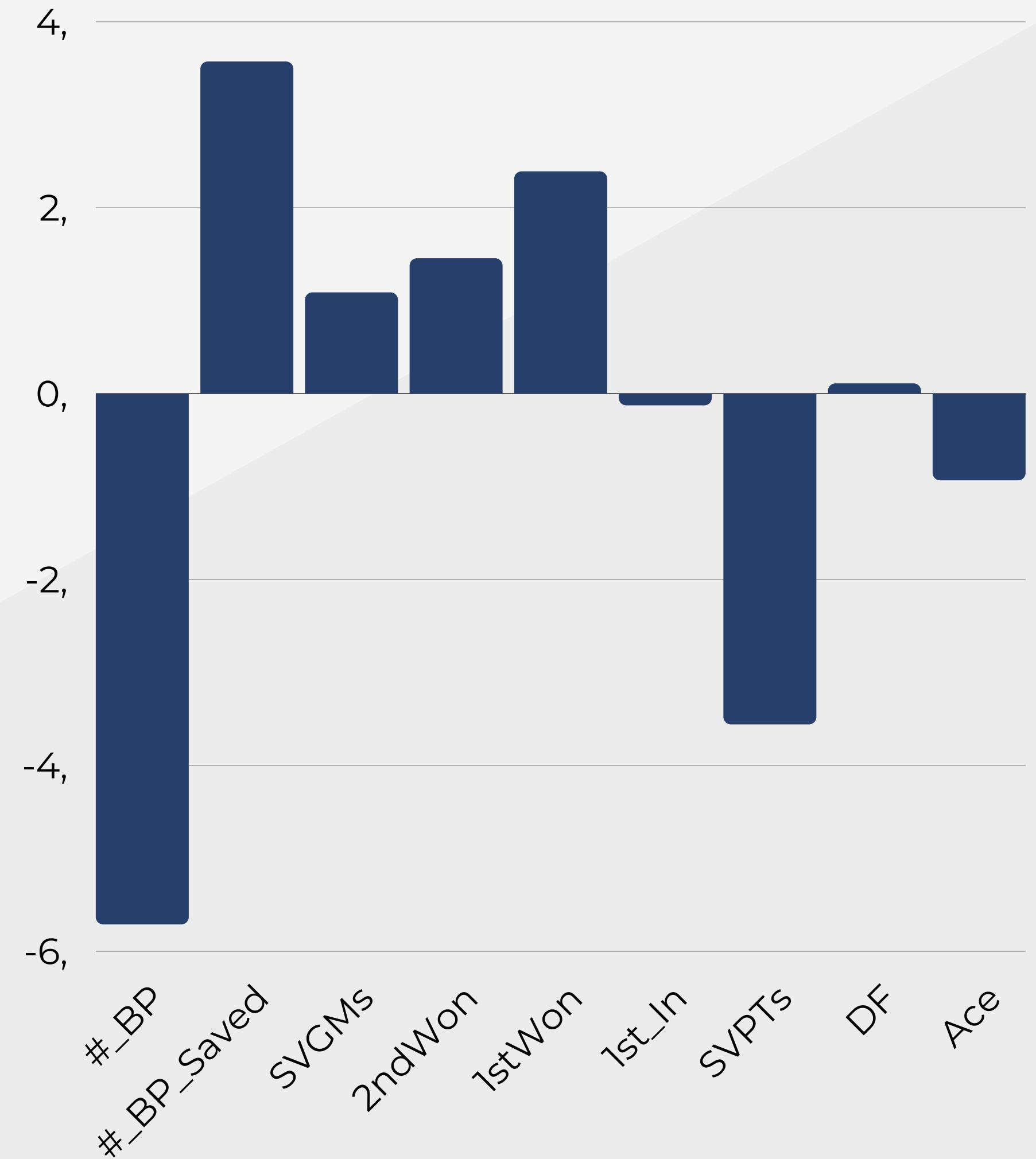
MODEL ANALYSIS

- Final model: Logistic Regression
- 83% accuracy
- Best scores, most interpretable



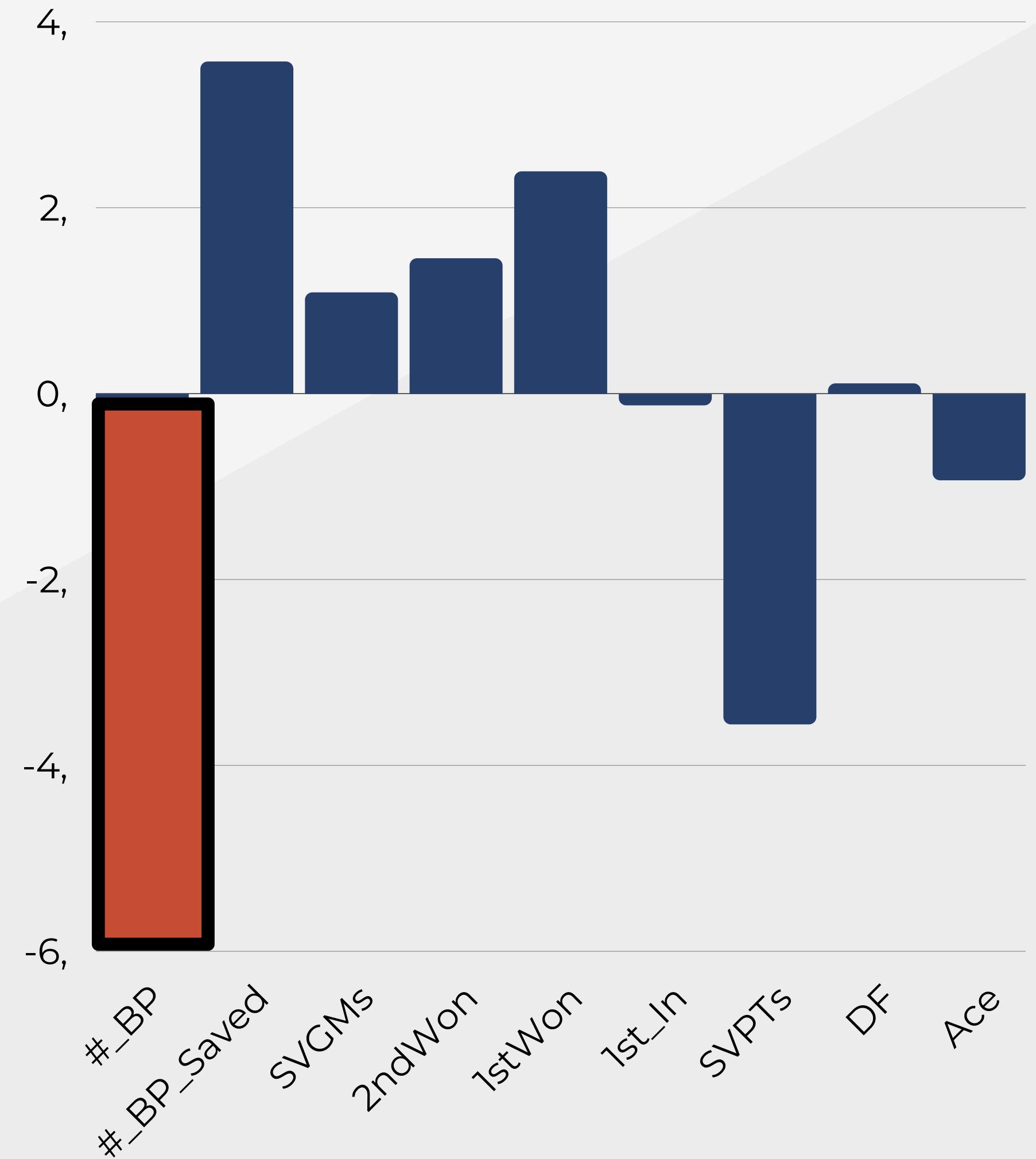
IMPORTANT FEATURES

- Break points faced
- Total serve points
- Break points saved



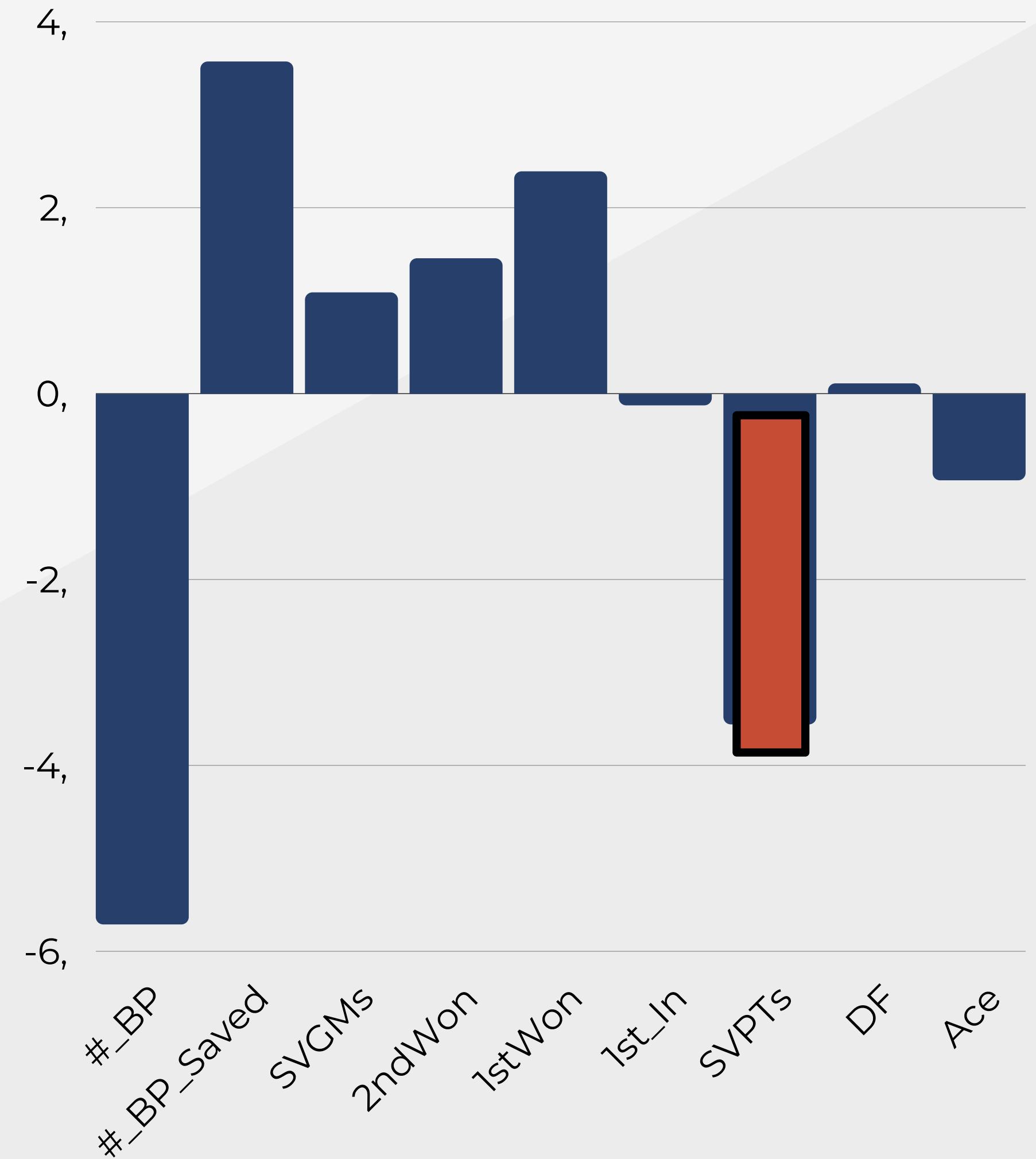
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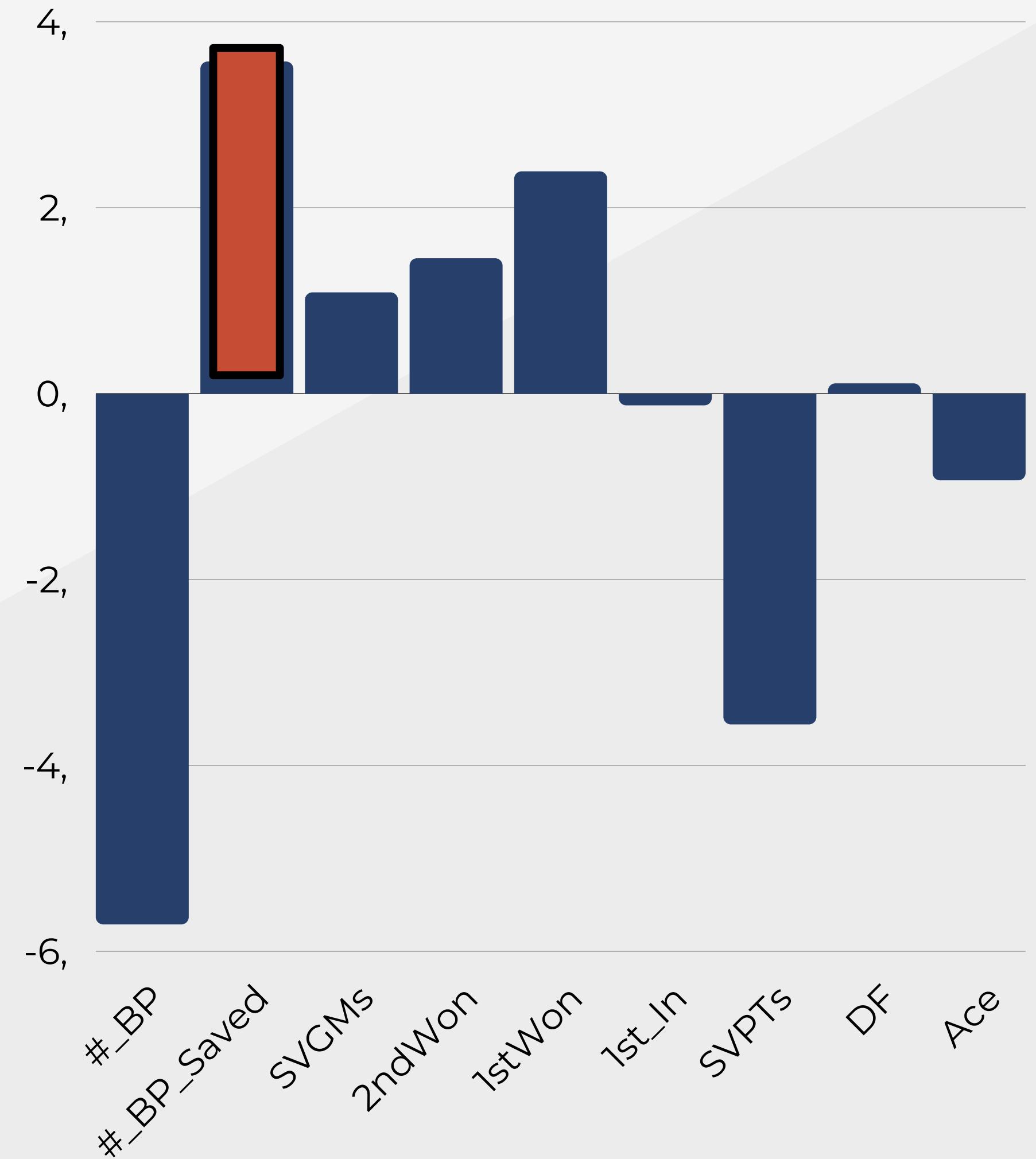
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WEBSITE PREDICTOR

localhost:8501

ATP tour: Who will win?

Choose Your Matchup:



Surface of play

Player One (higher rank)

Player Two (lower rank)

Hard

Choose an option

Choose an option

GOAT - class

GOAT - talent

Click to Predict

The screenshot shows a web application interface for predicting ATP tennis matches. At the top, it says "localhost:8501". Below that, the title "ATP tour: Who will win?" is displayed. A heading "Choose Your Matchup:" is followed by two images of tennis players: Roger Federer on the left and Nick Kyrgios on the right. Each player has a caption below their image: "GOAT - class" for Federer and "GOAT - talent" for Kyrgios. Above each image is a dropdown menu labeled "Surface of play". The first dropdown is set to "Hard". The second and third dropdowns both have "Choose an option" selected. A large "Click to Predict" button is located at the bottom center of the page.



FUTURE PLANS

- Increase model accuracy
- Automate data updates
- Predict an entire draw
- Track momentum





THANK YOU

eli.ingleson@gmail.com
<https://github.com/elingles1>
tbsmith1@bsc.edu
<https://github.com/tom-b-smith>

