U.P.E.

What is it?

- Web Application Built Around a Prediction engine for the AUDL
  - Team & Player Records From all past seasons
  - Weather Factors during previous games
- View Accurate Upcoming Game Predictions for the current season
- Create your Own Fantasy Matchups
  - Using Existing Teams
  - Form Custom teams from a vast list of AUDL players

Stats/Data

- Wins of each team
- Losses of each team
- Goals by player
- Assists each player gave
- How many throws were completed per game
- Average temperature per game
- Average wind per game
- Average precipitation per game
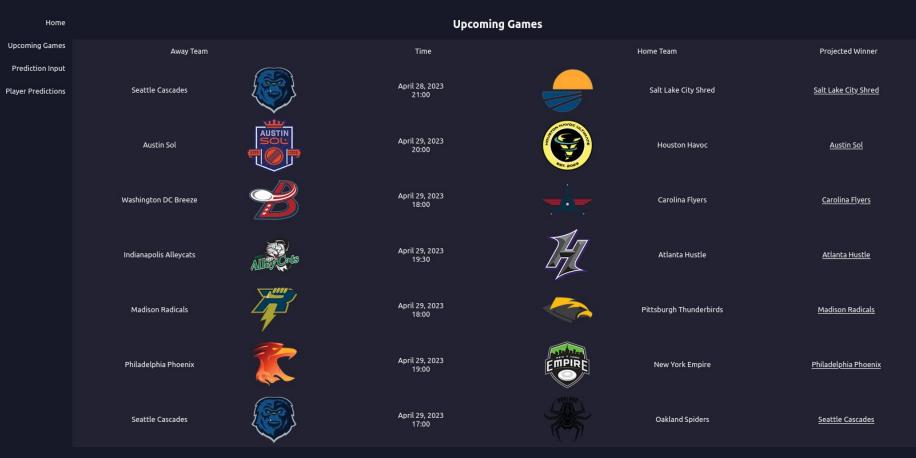- Average humidity per game

Behind the curtain

A Support Vector Machine (SVM) model using Scikit-learn API

The steps in using the SVM:

1. Gather the relevant information for the teams or players given
2. Tell the SVM the teams history in the right format. Give it time to think
3. Ask it who will win based on the given weather and game history

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Ultimate Prediction Engine

Upcoming Games

Away Team		Time		Home Team	Projected Winner
Seattle Cascades		April 28, 2023 21:00		Salt Lake City Shred	Salt Lake City Shred
Austin Sol		April 29, 2023 20:00		Houston Havoc	Austin Sol
Washington DC Breeze		April 29, 2023 18:00		Carolina Flyers	Carolina Flyers
Indianapolis Alleycats		April 29, 2023 19:30		Atlanta Hustle	Atlanta Hustle
Madison Radicals		April 29, 2023 18:00		Pittsburgh Thunderbirds	Madison Radicals
Philadelphia Phoenix		April 29, 2023 19:00		New York Empire	Philadelphia Phoenix
Seattle Cascades		April 29, 2023 17:00		Oakland Spiders	Seattle Cascades

Ultimate Prediction Engine

Predict Input

Next

Colorado Summit	Team 1:	Team 2:	Indianapolis AlleyCats
	Colorado Summit	Indianapolis Alleycats	

Stats

Colorado Summit		Indianapolis AlleyCats	
Wins	12	Wins	76
Losses	2	Losses	69
Games Played	14	Games Played	145
Completion Percentage	94.11	Completion Percentage	91.94
Hold Percentage	75.34	Hold Percentage	66.72
Break Percentage	31.93	Break Percentage	28.74
Huck Percentage	66.51	Huck Percentage	65.56
Turnovers	213	Turnovers	2782
Blocks	147	Blocks	1544
Red Zone Percentage	76.6	Red Zone Percentage	77.62
Scores For	334	Scores For	3284
Scores Against	271	Scores Against	3112

Winner

75% more likely to win

Matchup

Wind	15	mph
Precipitation	0	inches
Temperature	72	ºF
Humidity	60	%

Player Prediction Input

Next

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Average Stats for Team 1

Stat	Value
Completion Percentage	74.36
Completions	383.64
Goals	51.64
Assists	38.09
Plus/Minus	80.27
Games Played	34.27
Minutes Played	657.91
Points Played	719.45
Huck Percentage	43.55
Drops	6.36
Throwaways	34.45
Blocks	31.36
Yards Thrown	910.91
Yards Received	1491.27
Offense Efficiency	40.09

Team 1

Add to Team 1

Team 2

Player		Player	
Alex Atkins	×	AJ Merriman	×
Aubrey Davis	×	Andrew Roy	×
Antoine Davis	×	Tyler Monroe	×
Alex Davis	×	Khalif El-Salaam	×
Alex Jirele	×	Kenrick Koo	×
Marques Brownlee	×	Kyle Romard	×
Jeff Weis	×	Kevin Richardson	×

Add to Team 2

Average Stats for Team 2

Stat	Value
Completion Percentage	90.01
Completions	1102.67
Goals	21.67
Assists	107.33
Plus/Minus	38.67
Games Played	46.33
Minutes Played	922.33
Points Played	963.00
Huck Percentage	14.81
Drops	8.00
Throwaways	105.67
Blocks	23.33
Yards Thrown	2729.33
Yards Received	323.00
Offense Efficiency	50.12

Ultimate Prediction Engine

Matchup Winner

Team 2

Prediction successful

70.76% more likely to win

Team 1

Team 2

Albert Alarcon   Marques Brownlee

Anthony Davis   Jeff Babbitt

Alex Drum   Jeff Weis

Alex Duffel   Pawel Janas

Alexandre Fall   Ryan Drost