U.P.E.

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What is the Ultimate Prediction Engine?

- Prediction engine for the AUDL
  - Team and Player records
  - Weather Factors
- Upcoming Games Predictions
- Fantasy Matchups
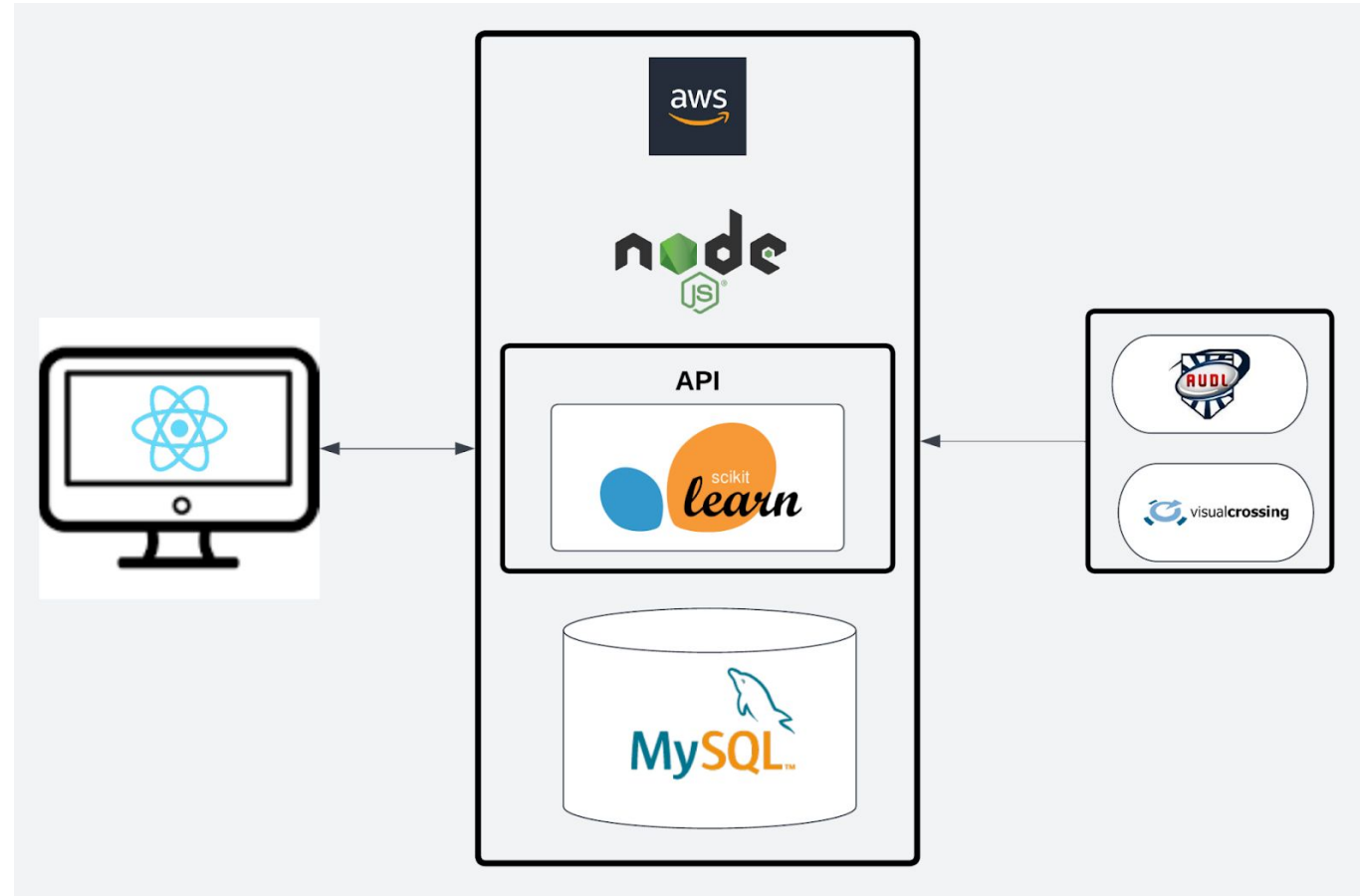 - Existing Teams
  - Create Your own Teams

Problems & Motivation

- Weather Dependent Sport
- Lack of interactive platforms for the AUDL

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System
Overview

Team Statistics

- Wins
- Losses
- Completion Percentage

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Player Statistics

- Goals
- Assists
- Completion Percentage

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Weather Data Collection

- Visual Crossing Weather API
  - 4 weather conditions
  - 15-minute intervals
  - Game averages

- ML Integration

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Behind the scenes

- Support Vector Machine (SVM) using Scikit-learn Python
    - Gather and sort the game characteristics and weather
    - Tell the SVM the previous history
    - Ask it who will win

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

Questions?