Project Proposal:

Disc golf analytics web app that:

Shows players their stats

Awards badges to players based on data entered into database

Lets players predict their score for an upcoming game at a given location (one of three local disc golf courses) and dates based on weather forecast and modeled effects of weather on performance

Lets players predict the outcome of match-ups with other players based on distribution of predicted scores, date of match, location of match, predicted weather at location/date, and modeled effects of weather on performance

Project Milestones:

Saturday July 27

-- pipeline for input of weather data, estimation of weather at courses

-- pipeline for processing of scores into database

-- initial set of machine learning models for predicting player scores

-- Initial site design for front page

-- initial set-up of back-end app

Saturday Aug 3

-- integrated prototype of front-end, back-end, database, and models

-- preliminary selection of model characteristics

-- “feature complete” site that performs some version of all intended functions

-- queries to back-end for player stats

-- queries to back-end for match-up

-- back-end query to API to get predicted weather

-- back-end predicts scores

-- back-end computes statistics