# Project 1

## Team members:

Matthew Young: mdy12

Matthew Harding: mmh178

Scott Johnson: saj73

Jude Moukarzel: jjm385

## Data Science Question:

How do various factors lead to success in Cross Country, Indoor Track, and Outdoor Track in the NCAA?

## Dataset Descriptions:

### 1. United States Track and Field and Cross Country Coaches Association Ranking Data

### https://www.ustfccca.org/

Using web scraping via various URL paths, we collected championship data for the last 10 years for cross country, indoor track, and outdoor track. One notable variable is the change in ranking since the previous week. Here we can analyze which teams performed better in championships based on a variety of factors gathered below.

Note: to see some of the specific cross country datasets, reference the links below:

https://www.ustfccca.org/team-rankings-polls-central/polls-rankings-hub?coll=11762

https://www.ustfccca.org/team-rankings-polls-central/polls-rankings-hub?coll=11763

https://www.ustfccca.org/team-rankings-polls-central/polls-rankings-hub?coll=10446

https://www.ustfccca.org/team-rankings-polls-central/polls-rankings-hub?coll=10447

### 2. World Weather Online Historical Weather API

### https://www.worldweatheronline.com/developer/api/docs/historical-weather-api.aspx

After cross-referencing the dates and locations of the NCAA XC Championships from https://www.ustfccca.org/meets-results/meet-history?series=3367, we used this weather API to get a full scope of the weather at the site of the championship based on date and zip Code. Combining this data with the previous data will hopefully provide some trends in which teams performed better in various types of weather.

### 3. Reddit API

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### 4. Topographical API

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