

Team 1 Project 1 Roadmap

Hypotheses:

- 1) Are changes in RSI related to team game performance?

We hypothesize that if team RSI values are high, then the overall team game performance will be good.

- 2) Are changes in RSI related to individual statistical game performance?

We hypothesize that if RSI levels in individuals increase over the course of the week leading up to a game, then the athlete will perform better than their median statistics in the game.

- 3) Is the previous week's load related to RSI?

We hypothesize that if an athlete's training load during the previous week is high, then their RSI score will be lower.

- 4) What is each athlete's variation in RSI? What is a meaningful change in RSI for the team, and for the athletes?

Define meaningful and move from there

Timelines:

(Weeks 2-4)

1. Examine and get familiar with all datasets
 - a. Understand variables within the datasets.
2. Clean data.
 - a. Handle missing values
 - b. Filter out irrelevant columns/variables
 - c. Merge datasets if necessary
3. Perform Exploratory Data Analysis
 - a. Visualize trends/patterns
 - b. Access distributions and relationships
 - c. Identify any potential outliers
4. Perform any necessary transformations to the data
5. Modeling/Analysis
 - a. Choose appropriate models and tests
 - b. Interpret model output
6. Visualization
 - a. Create charts, graphs, tables to display findings
 - i. Tailor visualizations to audience
 - b. Translate analysis into clear insights

(Week 5)

7. Prepare presentation
 - a. Make a clear, professional presentation for stakeholders
8. Presentation