

The following are areas that need to be addressed.

1. Define Your Audience / Stakeholder Rebecca

Clearly identify who you are writing your final report for.

Mike Curtis!!!!!!

2. Define Your Problem Statement Rebecca

Create a concise and compelling problem or question that guides your analysis.

How does the time of the season/during the game influence the effort the player puts in to the game?

Examples from assignment:

"The men's basketball team had a worse performance this year. Did preparation around games change? How did playerload, jumps, high accelerations, and change of direction compare before games over the current season and the previous season?"

"Orthopedic surgeons need a better way to communicate strength outcomes with their patients. How can we create visualizations to compare patients to other patients like them?"

3. Identify Important Variables Rebecca

- List which ones are important for your analysis and why.*

Variable Explanation:

Position:

Date: The date of the game played

About: Assigned Athlete Letter

Period Number: Period of game played

Period: Type of Game Played – drop practice games, filter based on game

Total Acceleration Efforts: Total number of times the player accelerates during an event

Total Player Load: A measure of overall physical exertion

Player Load per Minute: Total player load divided by time

IMA Accel Low: Count of low intensity acceleration movements

IMA Decel Low: Count of low intensity deceleration movements

IMA CoD Left Low: Number of low intensity changes of direction to the left

IMA CoD Right Low: Number of low intensity changes of direction to the Right

IMA Accel Medium: Count of medium intensity accelerations

IMA CoD Left Medium: Number of medium intensity change of directions to the left

IMA CoD Right Medium: Number of medium intensity change of directions to the right

IMA Accel High: Count of high intensity accelerations

IMA Decel High: Count of high intensity decelerations

IMA Accel Total: Total number of acceleration movements across all intensity levels

IMA Decel Total: Total number of deceleration movements across all intensity levels

IMA CoD Left High: Number of high intensity change of direction movements to the left

IMA CoD Right High: Number of high intensity change of direction movements to the right

IMA Jump Count Low Band: Number of Low Intensity Jumps

IMA Jump Count Med Band: Number of Medium Intensity Jumps

IMA Jump Count High Band: Number of High Intensity Jumps

Explosive Efforts: Total Number of Explosive Efforts

Event-uuid: Unique Identifier for each event

Group - uuid: Unique Identifier for Players

4. Merge & Clean the Dataset Illiana

- *Clean the data: remove duplicates, handle missing values, correct data types.*

Delete all the session data, and total COD left right(delete columns that don't matter)

- *Your final dataset should include only variables relevant to your problem.*

5. Descriptive Statistics & Distributions Kayla

- *Provide summaries of important variables*

Interquartile graphs – box plots

Violin plots?

Two in one graphs

Box plot of player load per minute and players themselves(Rebecca)

- *Use visualizations to explore distributions.*

6. Examine Correlations (if relevant) Claire

- *Interpret findings: what variables appear related?*

Heat map! Between variables? Multiple variables

7. Explore Relationships (if relevant) Claire - SUBMIT

- *Dig into potential causal or descriptive relationships*
- *Use visualizations and statistical summaries.*

Your notebook should include a mix of code, markdown explanations, and visualizations.