## **Project Proposal and Data selection/Milestone 1**

**What domain is this data going to come from?**

In terms of the research, I'll be doing for this proposal, I'll be looking into the Food Network television show Chopped and its contestants. However, I will be looking into contestants who are professionally trained and own restaurants who are harmed during the competition and their odds of winning if they are injured, as well as items that may bring a higher risk of injury on the show.

Reference:

<https://mashable.com/article/chopped-food-network-mistakes/>

<https://www.cheatsheet.com/entertainment/chopped-why-arent-there-more-female-chefs.html/>

<https://www.foodnetwork.com/shows/chopped>

<https://www.insider.com/chopped-facts-secrets-2018-6>

<https://www.foodnetwork.com/shows/chopped/photos/the-biggest-injuries-in-chopped-history>

<https://www.mashed.com/32044/reasons-chopped-totally-fake/>

<https://www.insider.com/chefs-kitchen-accidents-2017-7>

<https://www.businessinsider.com/chopped-food-network-ted-allen-tv-cooking-competition-2018-12>

<https://www.foodnetwork.com/shows/chopped/photos/the-worst-chef-to-chef-confrontations-in-chopped-history>

<https://www.foodnetwork.com/shows/chopped/photos/chopped-all-stars-meet-the-chefs>

The primary goal of this source is to demonstrate additional variables and stressors that could result in an unintentional injury on the show.

What is the dataset you’ll be examining?

The data set is structured as followed:

Season – The season of the episode

Season Episode – The episode of a certain season

Series Episode – The episode number overall in the show

Episode Name – The name of the episode

Episode Notes – Notes about episodes (i.e. injuries, reasons for eliminations, first occurrences)

Air Date – The date the episode premiered

Judge 1 – Name of one of the three judges

Judge 2 - Name of one of the three judges

Judge 3 - Name of one of the three judges

Appetizer – The random ingredients given for the meal that round

Entree – The random ingredients given for the meal that round

Dessert – The random ingredients given for the meal that round

Contestant 1 – Name of Contestant eliminated after appetizer round

Contestant 1 Info – Basic Background of Chef

Contestant 2 – Name of Contestant eliminated after entree round

Contestant 2 Info – Basic Background of Chef

Contestant 3 – Name of Contestant eliminated after dessert round

Contestant 3 Info – Basic Background of Chef

Contestant 4 – Name of Contestant that won the episode

Contestant 4 Info – Basic Background of Chef

How are you proposing to analyze this dataset? What research questions?

Does mindset matters?

Any evidence or experience regarding the use of eccentric cycling training in preventing Hamstring Strain Injuries in football athletes?

Which basket components are more likely to cause a participant injury while competing?

Is there a link between experience and chef title and the risk of injury?

What are your chances of winning the competition if you get hurt on the show?

I propose that it be investigated to determine the success rate of people who have been hurt on the show. Simultaneously, see if the substances have any link to these injuries, as well as if the occupation is a factor in harm.

What methods will you be using?

The methodology I'll use for this proposal will start with an exploratory data analysis to look at the data to see if there are any major trends among the competitors on the program, such as their titles, locations, and the types of items that are included in the basket ingredients.

The model will be able to tell if some ingredients are leaning more toward one side or the other, as well as if they have a specific title within each episode. At the same time, the model will allow us to establish whether the major injury influencers are occasional or not.

What challenges do you anticipate having?

I'm not sure I'll have enough information on injuries that have occurred on the show to accurately answer whether the competitor will triumph despite this sad mishap. At the same time, the injuries aren't mentioned in detail in the episode notes.

I don't see anything that could cause this project to fall behind schedule right now, but I'm working full-time over-night shifts, taking another class, and looking for/in the process of interviewing for a position in my desired field. Because of these additional obligations, there is a chance that the project's timeline will be impacted.

This proposal aims to determine whether injuries have a role in determining whether a chef on the show Chopped will be successful in the competition, as well as whether certain ingredients have a higher risk of causing an injury while on the show. To answer these questions, it will rely on data gathered from Kaggle.com by Jeffrey Braun, who has obtained information about the show that allows it to answer these questions with factors like episode notes and ingredients. Using this information, a decision tree model will be created to assess the likelihood of winning the show and the factors that increase the risk of injury.