## **Project Draft / Milestone 2**

[**https://github.com/rajk2888/DSC680-Project-2**](https://github.com/rajk2888/DSC680-Project-2)

**INTRODUCTION**

Chopped is a popular Food Network competition cooking show in which four judges compete to create a dish in three rounds after being given a basket of random items to integrate into each dish. A panel of three judges is assigned to each episode and is in charge of choosing which chef will be removed or ‘Chopped' from the competition. I used a decision tree to evaluate how far a chef progressed in the competition and if they would win overall, as well as the most influential ingredients and titles of a contender, to create this study of anticipated success.

Chopped is a reality cooking television game show hosted by Tim Allen in which four chefs compete for a $10,000 prize. The show is a popular culinary show that has been on the Food Network for over ten years and features three major judges who are rotated every week.

**Goal**

The main purpose of this project is to look at the data from the Chopped Show to see if a chef who has been wounded has a chance to win the show. Even if a participant has years of experience, there is always the risk of them injuring themselves while competing on various cooking shows because the tools they are using are dangerous to them.

Based on all of the episodes that have aired and reported the injury thus far in the analysis, chefs on the show have a 6.71 percent risk of injuring themselves while competing on the show. I'm sure there were some injuries that were not noticed or reported during the competition. Only approximately 1.23 percent of contestants win after being hurt during the game, according to the success percentage of those chefs who were injured while competing. The model, in particular, was able to forecast with a 95.92 percent accuracy.

**Method**

The data set includes all 570 episodes of Chopped that have aired on the Food Network from the show's inception in 2009. Judges, contestants, ingredients, and special episode comments are all included in the dataset for each episode. The dataset is groomed to focus on the main show, which sees the most participants of all backgrounds and experiences, as the show continues to expand in popularity and generate different variations of the show as well as foreign versions.

**Techniques planned to use:**

The below modules in python to accomplish this supervised classification task.

* pandas
* numpy
* sklearn
* matplotlib
* seaborn
* joblib
* os

**Conclusion**

Even while injuries aren't common on the show, there's a lower likelihood of winning the full episode if you've been hurt. When an accident occurs, the medical team will address it at the time that is most convenient for you. This does not, however, imply that the clock stops ticking for the injured chef or the other contestants, creating a stumbling block for those who are injured.

It's possible that once it happens, they won't be able to stop it. As a result of my analysis, I believe it will provide insight into your chances of success if you injure yourself, as well as whether your professional cooking experience will play a factor in your chances of still winning.