

Luis Buenaventura

Sandeep Malladi

Shrabya Timsina

### **Team CS 122 Project Proposal**

#### **Project Goals and Data Source**

Goal:

Our project seeks to create a beer suggestion engine. The program will accept an ‘Untapped’ account url as an input, which it will use to scrape the account’s current beer reviews. Once it captures the account’s beer preferences, the program will go through the reviews of those beers by other people and collect the account information of other people who have similarly rated the same beers. The program will then scrape through those accounts to understand which beers these people also enjoyed. The program will use this information to create some ranking of suggestions to return to the user. The ranking will be based on some calculated metric such as the frequency of appearances of beers among related accounts, how positive the average reviews are, or a weighting of the two.

Alternatively, we could return suggestions based on an input of only a single beer, but in that case we would have to have a limiting dictionary of beers to ensure that the beer exists within the untappd library or so that the beer’s name remains consistent. In either case, the program will likely need some kind of user interface.

Data Source:

The majority of our data will come from <<https://untappd.com/>>.

## **Sketch of Work to be Completed and Timeline**

Before 6th Week:

- Write the web scraping portion of the program to capture the review statistics of a person's account
- Write the web scraping portion of the program to capture positive reviews of other beers based on similar accounts

Before 8th Week:

- Write the ranking portion of the program to generate possible beer suggestions
- Write the user interface part of the program