Optimum Recipe Generator

- Week 1:
  - Explore data and clean up data
    - Remove outliers
      - More than 20 steps
      - More than 25 ingredients
    - Make sure data has required columns that I have deemed important
    - Minimum number of ratings
  - Figure out how to categorize
    - Tags
    - Ingredient list
      - Clean up ingredients (ie “ground pepper, ground black pepper, black pepper”
- Week 2
  - Develop Scoring algorithm
    - Number of steps
    - Average rating
    - Time to prepare
    - User preferences/priorities (low-calorie, gluten-free, prep time)
    - Ingredients
      - Number
      - Exoticness of ingredients
        - How to rate?
  - Filtering of recipes
    - Focus on vegan/vegetarian?
    - See how they are titled to see how search could work (ie “butternut squash soup” gets all soups that meet that requirement)
      - Similarity of search phrase (NLTK)
- Week 3
  - Implement optimizer to deliver 5 best recipes with user comments
- Week 4
  - Troubleshooting buffer
  - Deploy to web?

Project Timeline

Task	Week 1	Week 2	Week 3	Week 4
Explore data and clean up data				
Develop Scoring algorithm				
Filtering/Search of Recipes				
Recipe Optimizer (Output for user)				
Buffer/Deploy on Website				

MVP 1

- User enters recipe
- User receives Top 5 Recipes w/ basic analysis
  - Common Ingredient List
  - Average Ratings

MVP 2

- User enters recipe **and preferences**
- User receives Top 5 Recipes w/ basic analysis
  - Common Ingredient List
  - Average Ratings