

# Cuisine Classification by Ingredients

Team: Ronak Desai, Shidhesh Supekar, Kalven Bonin

Is it possible to classify a recipe's cuisine type just from a list of ingredients? Our project seeks to answer this question and does so using some basic tools of Natural Language Processing. We take a dataset from Kaggle.com that has a list of ~40,000 recipes with a cuisine type classification. One method we employ is called a Bag of Words (BoW) model which take all words found in the ingredients list and builds a classifier based on the occurrences of those words in the training set. The other method is the Term Frequency-Inverse Document Frequency (TF-IDF) which considers the frequencies of individual words in the training set. Both methods produced a testing accuracy of greater than 60%, which is good considering that we implemented the most naïve NLP models.