Run the “Project2 Code.ipynb” file from top to bottom. This is the model code.

“recipe\_train.csv” include the training instances.

“recipe\_test.csv” include the testing instances.

“results.csv” is produced when run testing set using multinomial naïve bayes model with the features name, steps and ingredient concatenate together, proceed the text with count vectorizer.

“results2.csv” is produced when run testing set using ensemble model by mac voting, with the features name, steps concatenate together, proceed the text with tfidf.

“results\_lr.csv” is produced when run testing set using logistic regression, with the features name, steps concatenate together, proceed the text with tfidf.

“results\_svc.csv” is produced when run testing set using Linear SVC, with the features name, steps concatenate together, proceed the text with tfidf.