

EVERYBODY LOVES FOOD!



Le-Anne Lee

PROBLEM STATEMENT

How can I correctly a post from either r/Cooking and r/AskBaking, for a leading online grocery store?

DATA COLLECTION & CLEANING

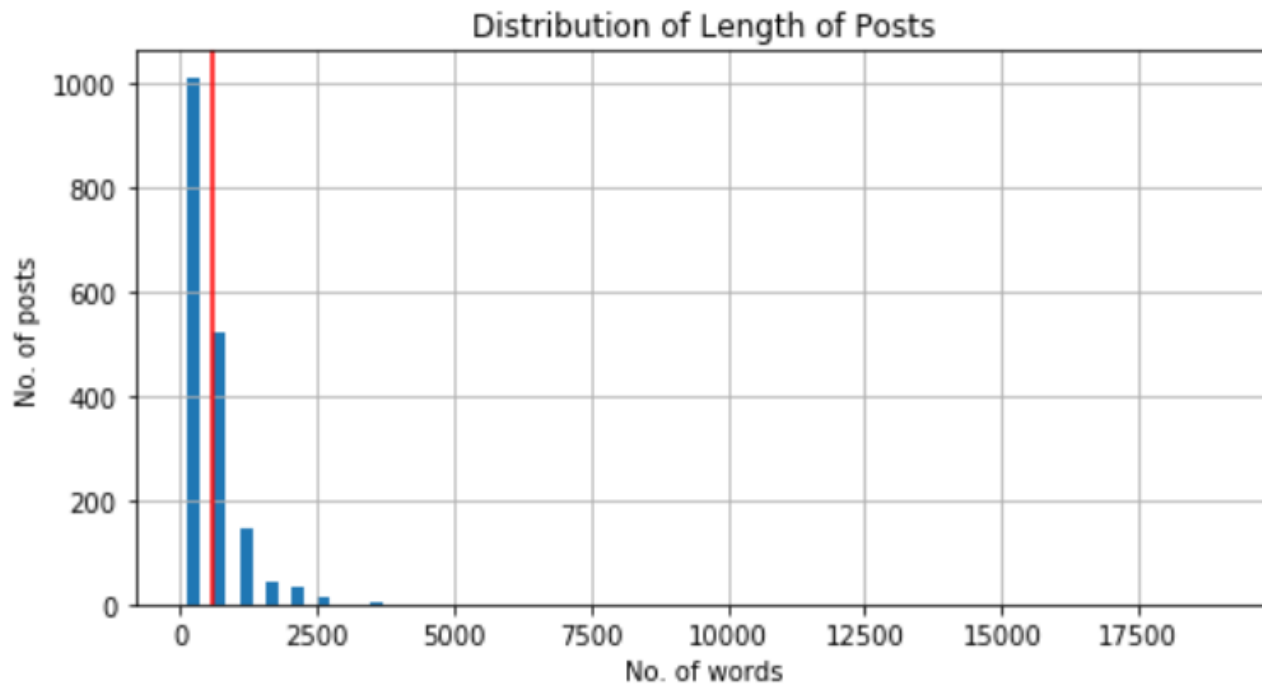
- ❖ 1000 posts from r/Cooking and another subreddit
- ❖ Duplicate posts were removed

	title	selftext	name	author	target
0	Money has been tight this past month, so we've...	I typically save several dollars every trip to...	t3_esklbe	iScReAm612	1
1	I hate my own cooking	I have been learning how to cook over the past...	t3_esh9jv	nightglitter89x	1
2	Skip the fancy apron trend and get yer'self a ...	Want that hip, macho aesthetic in the kitchen ...	t3_esnbr6	ProtoNate	1
3	My mom's measuring cup	Maybe this is about cooking. Maybe not. Since ...	t3_es3e31	ManosVanBoom	1
4	How can I make steamed vegetables taste more i...	I eat a lot of steamed vegetables, particularl...	t3_ese5fw	TheTousler	1

PRE-PROCESSING

- ❖ Lemmatize
- ❖ Stopwords were added – cook , bake
- ❖ Remove weblinks ‘https’

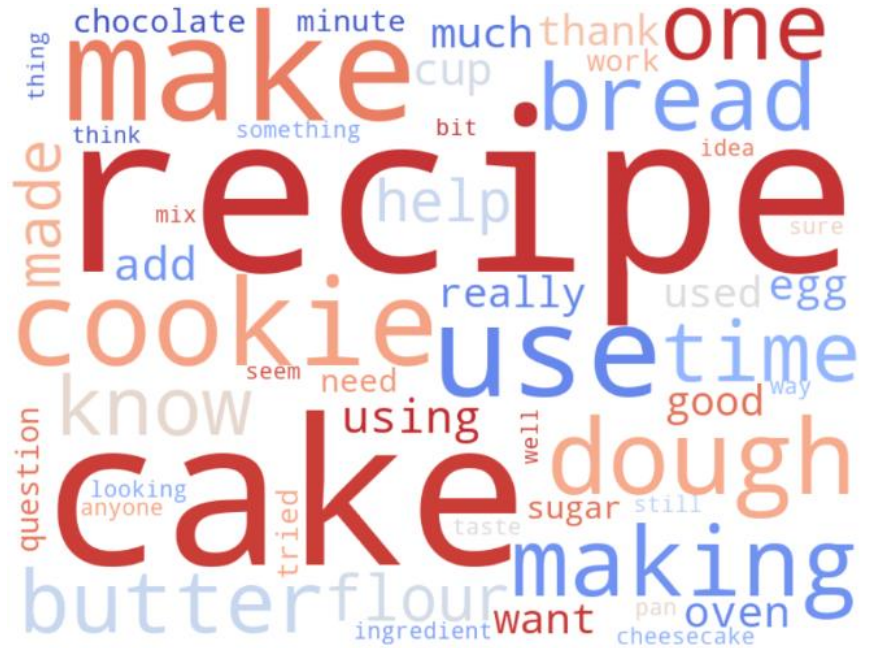
EDA - LENGTH OF POSTS



EDA - WORD CLOUD



r/Cooking



r/AskBaking

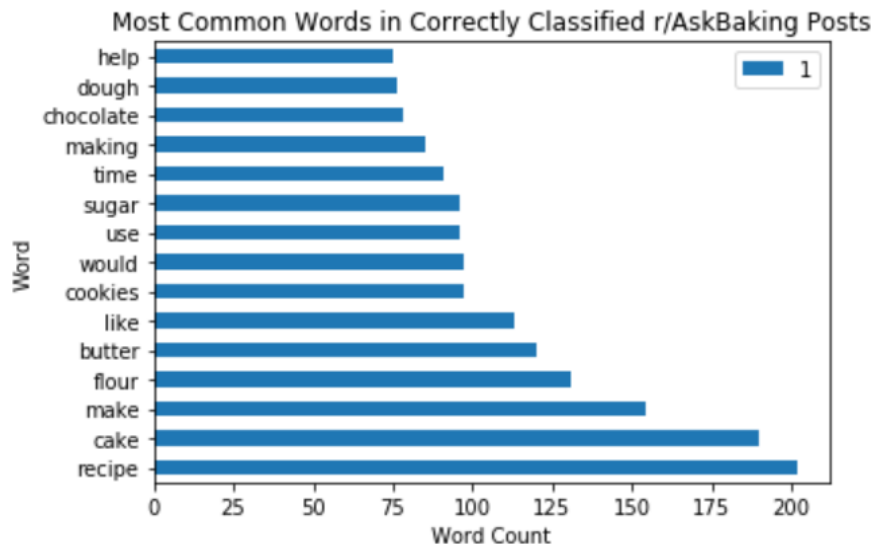
MODELING

- ❖ Baseline accuracy: 55.6%
- ❖ Multinomial Naive Bayes Model Accuracy: 91.8%

	Pred Bake	Pred Cook
Actual Bake	239	7
Actual Cook	29	168

MODELING

❖ Looking at the misclassified posts



Incorrectly Classified as r/AskingBaking post:

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vegan suitable coeliacs cookies expert kitchen turns today made great cookies soy flour sunflower oil sugar simple want make so
rt sandwich sorry english putting peanut butter middle two cookies problem since soy flour break easily wondering tip regarding
making cookies make even tastier way making avoiding breaking cookies recommendations sort want sell delicious help appreciated
want full recipe ask

=====

sheets bend over two cookie sheets lack better word bend over minutes put sufficiently hot pop longer lay flat none cookie shee
ts happening cheap cookie sheets need replaced

=====

adding lavender lemon zest white chocolate mousse boyfriend approaching important date us wanted surprise something thought mou
sse described really confused found lot different recipes mousse add heavy cream butter use egg yolks chocolate egg whites prob
lem apparently consistent version latter end going route know add lemon lavender please help tremendously appreciate also know
whether flavours work well together please let know

CONCLUSION & RECOMMENDATIONS

- ❖ Current Model with Accuracy of 91.8% can be deployed
- ❖ deploying the model on more unseen posts to further validate its accuracy.
- ❖ Remove similar words such as 'would', 'like', 'recipe' and 'make' which appeared in both subreddits or use Tf-idf