# Subreddit Comment Gathering

April 6, 2022

## 1 Setup

```
[ ]: #!pip install gensim
[ ]: #!pip install python-Levenshtein
[ ]: #!pip install praw
[ ]: #!pip install p
[ ]: #!pip install p
```

## 1.0.1 Imports

```
[2]: import gensim
  import pandas as pd
  import praw
  from psaw import PushshiftAPI
  import datetime as dt
  import matplotlib.pyplot as plt
```

```
[\ ]: \boxed{\#!dir}
```

```
[4]: master_table = pd.read_csv('june_to_march_postings.csv', index_col=[0])
```

```
[5]: for i in master_table.columns: print(i)
```

```
created_utc
    id
    title
    url
    created
    datetime
[]: master_table['created_utc'].iloc[:5]
    1.0.2 Minor cleanup
[]: master_table['datetime'] = pd.to_datetime(master_table['created_utc'], unit='s')
[]: master_table = master_table.drop(columns=['Unnamed: 0'])
[]: master_table.to_csv('june_to_march_postings.csv')
    1.0.3 Data Exploring
[]: import ast
    The following is the dictionary components of d_ in the datatable
[]: for k,v in ast.literal_eval(master_table.iloc[0]['d_']).items():
         print("%-15s, %s" %(k, v))
[]: master_table
[6]: first_row = master_table.iloc[0]
     submission = p_reddit.submission(id=first_row['id'])
[7]: # printing just c will give us the comment id for this submission
     for c in submission.comments:
         print(c)
    h1si8vd
    h1sil8e
    h1sigkk
    h1sttyw
    h1sqn3p
    h1snuvb
    h1sqyvc
    h1srcys
    h1uktmn
    h1sr26v
```

[8]: # printing c.body gets us the text from the comments
for c in submission.comments:
 print(c.body)

Roam by having the wave pushed to enemy turret . I only gank if bot or top is being pushed to our turrets. Make picks before objectives to win easier. You have to come back to your waves not just mid but it prevents turrets getting taken . Keep the lanes split

The first step to roaming is having good wave control
Try not to roam when you think you won't get anything out of it.

When I play mid, the only times I try to roam is when I see a fight in river, or my side of the jungle. Or when I am 100% sure I can get a kill or 2 in another lane.

Don't roam if your unsure about the results.

But this also depends on the champion your playing. If your playing twisted fate or an assassin. One who's job is to roam and find picks. You should be taking every opprotunity you can.

Also obviously shove the wave into their tower first. So that gets the minion kills and the enemy laner loses out on the gold.

Roam less. farm more

1 roam kill is one missed wave. One missed wave is a free assist for your opponent. The longer you are not on your lane the more chances to comeback you give your opponent. Especially if you have streak on yourself and then you accidentally die on a roam. That will definitely trow you far away back Perma roam can work in specific scenarios but always remember for every wave you miss, you lose both exp and gold(every wave is about 120 gold). Even if you get a kill off your roam, think about how many waves you lost for it. if your other laners are orangutans, don't bother roaming at all.

Generally perma farm can actually win you a lot of games in low elo. I usually getting fed by CSing. I'm a toplaner and always getting 150 or more gold reward even though I'm just 0/0/0. That usually happens if the whole your team is ahead.

become a kata main

Well you said it yourself. Go farm, don't perma roam, most of the times you're just wasting time running around river doing nothing. They won't run into you like co-op vs AI.

Suppress your lane with your lead, deny their farm either by freezing or shoving and harassing. Play with jungler. Every second you're not CSing those free gold are lost. Don't lose them unless you're sure you're getting something better.

If you get three or four early kills and keep up the CS/min you're gonna just be

really strong in mid game fights say around dragon that'll allow you to naturally carry the game. so any solution to my problem

Not sure if you are serious. You literally described what you do wrong and already mentionend the solution: cs

### 1.0.4 Understanding our Indices

```
[9]: shape_0 = master_table.shape[0]
[10]: import math
      interval = math.floor(shape_0/5)
[11]: indices = list()
      i = 0
      for j in range(5):
          print(i)
          indices.append(i)
          i += interval
      indices.append(shape_0)
      print(indices)
     0
     28713
     57426
     86139
     114852
     [0, 28713, 57426, 86139, 114852, 143567]
[13]: # An example of how our code is going to be split/indexed
      # We'll recombine these collections later
      for i in range(3):
          sub_id = master_table.iloc[i]['id']
          print(sub_id)
          temp_submission = p_reddit.submission(id=sub_id)
          for comment in temp_submission.comments:
              print(comment, comment.body)
```

#### o00m44

h1si8vd Roam by having the wave pushed to enemy turret . I only gank if bot or top is being pushed to our turrets. Make picks before objectives to win easier. You have to come back to your waves not just mid but it prevents turrets getting taken . Keep the lanes split

h1sil8e The first step to roaming is having good wave control h1sigkk Try not to roam when you think you won't get anything out of it.

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h1sttyw Roam less. farm more

h1sqn3p 1 roam kill is one missed wave. One missed wave is a free assist for your opponent. The longer you are not on your lane the more chances to comeback you give your opponent. Especially if you have streak on yourself and then you accidentally die on a roam. That will definitely trow you far away back h1snuvb Perma roam can work in specific scenarios but always remember for every wave you miss, you lose both exp and gold(every wave is about 120 gold). Even if you get a kill off your roam, think about how many waves you lost for it. if your other laners are orangutans, don't bother roaming at all.

Generally perma farm can actually win you a lot of games in low elo. h1sqyvc I usually getting fed by CSing. I'm a toplaner and always getting 150 or more gold reward even though I'm just 0/0/0. That usually happens if the whole your team is ahead.

h1srcys become a kata main

hiuktmn Well you said it yourself. Go farm, don't perma roam, most of the times you're just wasting time running around river doing nothing. They won't run into you like co-op vs AI.

Suppress your lane with your lead, deny their farm either by freezing or shoving and harassing. Play with jungler. Every second you're not CSing those free gold are lost. Don't lose them unless you're sure you're getting something better.

If you get three or four early kills and keep up the CS/min you're gonna just be really strong in mid game fights say around dragon that'll allow you to naturally carry the game.

h1sr26v so any solution to my problem

Not sure if you are serious. You literally described what you do wrong and already mentionend the solution: cs  $0.00 \, \text{k}^4 \, \text{w}$   $0.00 \, \text{j} \, \text{k}^8$ 

## 2 Comment Gathering

THIS COMMENT BLOCK IS STRICTLY FOR MY PROJECT PARTNERS TO RUN AND GATHER COMMENTS

**READ THIS**: If you're just opening this notebook, you can run the code from here. **Run these next two cells before running your own respective cell** (indicated below with headers of your names).

Additionally, please fill in the praw.Reddit(...) where it says YOUR\_CREDS\_HERE with your reddit api information to avoid potential issues with ratelimiting (though when I tried to gather it all myself, I didn't seem to run into any ratelimiting issues). Just in case there is, expect the code to run between 4-8 hours. If not, then maybe 2 hours... or less. Thank you!

```
[5]: import pandas as pd
     import praw
     import math
     from tqdm import tqdm
     """p_reddit = praw.Reddit(client_id=YOUR_CREDS_HERE,
                         client_secret=YOUR_CREDS_HERE,
                         username=YOUR_CREDS_HERE,
                         password=YOUR_CREDS_HERE,
                         user_agent=YOUR_CREDS_HERE)
     p_subreddit = p_reddit.subreddit('leaqueoflegends')"""
     master_table = pd.read_csv('june_to_march_postings.csv', index_col=[0])
     shape_0 = master_table.shape[0]
     interval = math.floor(shape_0/5)
     indices = list()
     i = 0
     for j in range(5):
         indices.append(i)
         i += interval
     indices.append(shape_0)
```

```
[27]: def gather_comments(t, sbmssn, sid):
    for comment in sbmssn.comments:
        if type(comment) is praw.models.reddit.comment.Comment:
            t['submission_id'].append(sid)
            t['comment_id'].append(comment)
            t['comment_text'].append(comment.body)
```

### 2.0.1 Baolong 1

```
[ ]: b1_comments_table_dict = {
          'submission_id' : list(),
          'comment_id' : list(),
          'comment_text' : list()
      }
 []: for i in tqdm(range(indices[0],indices[1])):
          sub_id = master_table.iloc[i]['id']
          temp_submission = p_reddit.submission(id=sub_id)
          gather_comments(b1_comments_table_dict,
                          temp submission,
                          sub id)
 []: b1_comments_dataframe = pd.from_dict(b1_comments_table_dict)
 []: b1_comments_dataframe.to_csv('comments_dataframe_1.csv')
     2.0.2 Baolong 2
[38]: b2_comments_table_dict = {
          'submission_id' : list(),
          'comment_id' : list(),
          'comment_text' : list()
      }
[39]: for i in tqdm(range(indices[1],indices[2])):
          sub_id = master_table.iloc[i]['id']
          temp_submission = p_reddit.submission(id=sub_id)
          gather_comments(b2_comments_table_dict,
                          temp_submission,
                          sub id)
     100%|
                | 28713/28713 [7:57:26<00:00, 1.00it/s]
[40]: b2_comments_dataframe = pd.DataFrame.from_dict(b2_comments_table_dict)
[41]: b2_comments_dataframe.to_csv('comments_dataframe_2.csv')
```

#### 2.0.3 Mohammad

```
[]: m comments table dict = {
          'submission_id' : list(),
          'comment_id' : list(),
          'comment_text' : list()
      }
 []: for i in tqdm(range(indices[2],indices[3])):
          sub_id = master_table.iloc[i]['id']
          temp_submission = p_reddit.submission(id=sub_id)
          gather_comments(m_comments_table_dict,
                          temp_submission,
                          sub id)
 []: m_comments_dataframe = pd.from_dict(m_comments_table_dict)
 []: m_comments_dataframe.to_csv('comments_dataframe_3.csv')
     2.0.4 Aleksa 1
[28]: a1_comments_table_dict = {
          'submission_id' : list(),
          'comment_id' : list(),
          'comment_text' : list()
      }
[24]: #t = master_table.iloc[370:400]
[25]: \#x = 'hello'
      #print(type(x))
[26]: | #for _id in t['id']:
          t_s = p_reddit.submission(id=_id)
      #
           for c in t_s.comments:
               print(type(c) is praw.models.reddit.comment.Comment)
[29]: for i in tqdm(range(indices[3],indices[4])):
          sub_id = master_table.iloc[i]['id']
          temp_submission = p_reddit.submission(id=sub_id)
          gather_comments(a1_comments_table_dict,
                          temp submission,
                          sub_id)
```

```
| 28713/28713 [7:55:55<00:00, 1.01it/s]
[31]: a1_comments_dataframe = pd.DataFrame(a1_comments_table_dict)
[32]: a1_comments_dataframe
[32]:
             submission_id comment_id \
                    qwart4
                               hl1ocor
      0
                               hl1o8mx
      1
                    qwar5c
      2
                    qwaqso
                               hl1p6r4
      3
                               h13bo65
                    qwaqso
      4
                               hl4bm4k
                    qwaqso
      165809
                               hszbkp2
                    s5gxcg
      165810
                    s5gxcg
                               hszud12
      165811
                    s5gvxi
                               hsxkd1j
                    s5gvbx
                               hsx9imu
      165812
      165813
                    s5gu40
                               hsx9a7p
                                                     comment_text
      0
              This submission has been removed because [text...
      1
              This submission has been removed because [text...
      2
              The worst part is that the bounties don't go a...
              The reason it's not a single objective is beca...
      3
      4
              Because then a 5v5 team fight would break out ...
      165809
                                                  Leona is absurd
      165810
                                                          Rek'sai
      165811 Ap twitch doesn't liandries or demonic he goes...
      165812
              This submission has been removed because [text...
      165813
              This submission has been removed because [text...
      [165814 rows x 3 columns]
[33]: a1_comments_dataframe.to_csv('comments_dataframe_4.csv')
     2.0.5 Aleksa 2
[34]: a2_comments_table_dict = {
          'submission_id' : list(),
          'comment_id' : list(),
          'comment_text' : list()
      }
[35]: for i in tqdm(range(indices[4],indices[5])):
          sub_id = master_table.iloc[i]['id']
```

100%

## 3 Final Comment

Each dataframe is about **30 MB**, and contains about **160,000 rows** (or **comments**) that will be used in the implementation of the **Word2Vec** model which will serve in our binary classification machine learning model. As of today, April 6, 2022, we're collecting the final dataframe and will move forward to finalizing the Word2Vec development in the coming days.