

r/GradSchool r/College

Brianna Lytle DSI - CC9 - LA

UC SYSTEM:



UC Student
 Ambassador : goal to
 improve overall
 student experience

- 14 UC Schools
- 250,000 + Students

Goal:

- College/Undergrad
- Grad/PHD

- Understand the student experience at different levels.
 - What are the most common topics talked about?
- Create plan to improve student experience

Data:



- Scraped /r/college and /r/GradSchool **REDDIT** threads.
- Included all threads up to Oct 17, 2019
 - Categories: Hot, New, Controversial, Top, Rising

Methods:



- Cleaned and explored data
- Sentiment Analysis
- Automated 100 + different models to search to find most accurate model

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 Understand the student experience at different levels.

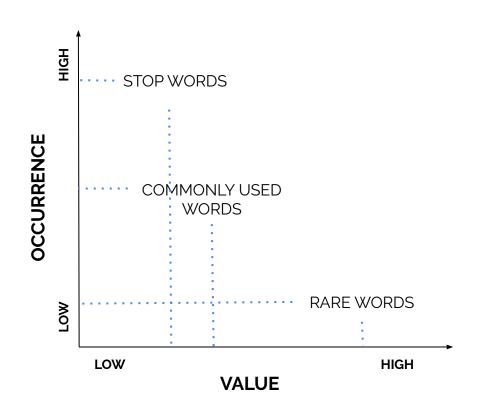
Model Transformer: Tf-IDF

- No custom stop words
- max_features = 1500
 - min_df = 0.85
 - max_df = 0.85

Model Estimator: Logistic Regression

Model Accuracy: 0.889

Tf-IDF

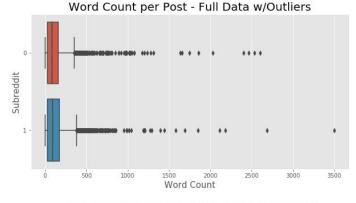


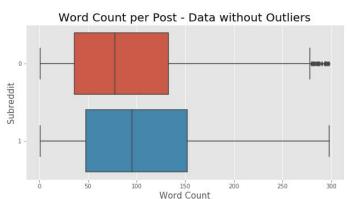
Data **Exploration**

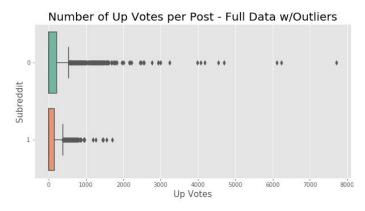
/r/college = 2885 threads

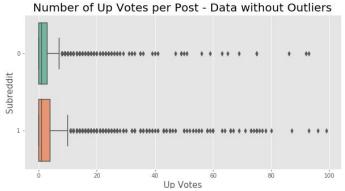
/r/GradSchool = 3745 threads

GradSchool subreddit users are more active with posting & interacting with other threads.







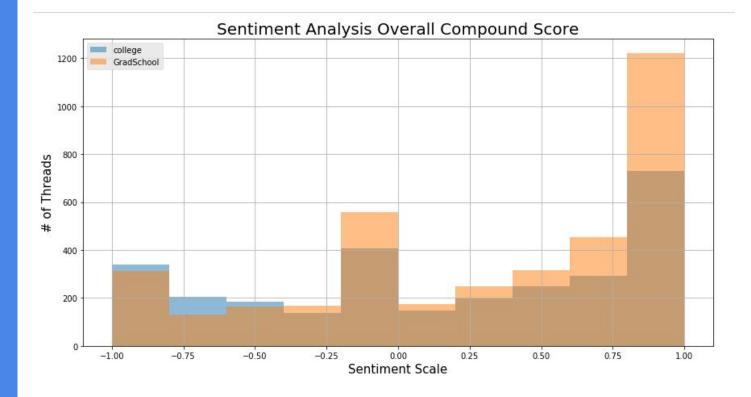


'Table adjusted for outliers	Word Count	Up Votes
College = 0	25% = 36 50% = 78 75% = 133	25% = 0 50% = 1 75% = 3
Grad School =1	25% = 48 50% = 96 75% = 152	25% = 0 50% = 1 <mark>75% = 4</mark>

Sentiment Analysis

College Thread:
More Negative, still
has posts in
positive range

GradSchool Thread: More Positive/Neutral Posts



College Thread: SIA Compound

GradSchool Thread: SIA Compound

Common Positive Terms

Compound Sentiment Score > 0.6

/r/college = 1022 threads

/r/GradSchool = 3745 threads

College Thread: 2 & 3-ngram			
Financial aid	73 threads		
Computer science	57 threads		
Make sure	43 threads		
Make friends	35 threads		
Save lot time	8 threads		
Computer science major	7 threads		
Tax information irs	6 threads		
Legal electronic signature	6 threads		

Grad School Thread: 2 & 3-ngram			
Mental health	72 threads		
Computer science	71 threads		
Research experience	57 threads		
Greatly appreciated	44 threads		
Good happened week	20 threads		
Advice greatly appreciated	14 threads		
Years work experience	13 threads		
Talk good happened	10 threads		

Common Negative Terms

Compound Sentiment Score < -0.6

/r/college = 1674 threads

/r/GradSchool = 442 threads

College Thread: 2 & 3-ngram				
Office hours	33 threads			
Really want	24 threads			
Computer science	22threads			
Feel bad	16 threads			
Professor office hours	5 threads			

Grad School Thread: 2 & 3-ngram			
Mental health	51 threads		
Years ago	22 threads		
Imposter syndrome	16 threads		
Hard time	15 threads		
High blood pressure	9 threads		
Having hard time	8 threads		
Mental health crisis	5 threads		
Really really bad	5 threads		

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Recommendations & Next Steps:

- Grad Students
 - Very stressed, provide access mental health services directly to them/shaped for their experience
 - Looking for support organize meetups, free events, social hour
- College Students
 - Financial Aid Services.
- Computer Science more resources, professor help

- Run New models
- Further investigation on text from SIA analysis into full dataframe
- Read into comments

Sources

Reddit threads

- https://www.reddit.com/r/GradSchool
- https://www.reddit.com/r/college