

# Analysis and comparison of Twitter networks of students across different universities

- Haripriya Pandya (A20299643)
- Shreesh Kumara Bhat (A20358074)

# Problem description

- Studying the online social network of current students and alumni students of pre-selected colleges and universities.
- Comparing the social network of one institution with other and analyzing their characteristics.
- Predicting the college experience of students based on the chatter on their social media network and compare it with the University's public image.

# Approach

- Collect data for 2 universities using Twitter API.
- Analyze the network's properties using metrics like clustering coefficient, diameter, degree of distribution, etc.
- Analyze the tweets (sentiment analysis of tweets) and conclude a common sentiment towards the traditions and events at university. For example students' campus life experience, academic experience, etc.

# Data

- Collect data for 2 universities [ex. UIUC and IIT ] using Twitter API :
  - Use REST API : Get student accounts following main college, career services and alumni association accounts and from the tweets mentioning school names
  - Use Streaming API : Collect public profile information of the users and their school related tweets over a period of time to gain more information about them
- Fields collected :
  - Name / Twitter handle
  - Description / Bio
  - Followers
  - Following
  - Tweets

# Timeline

- By Oct 29th : Finish collecting data.
- By Nov 15th : Finish cleaning up data.
- By Nov 26th : Finish analyzing networks and sentiments.
- By Nov 29th : Finish up conclusions and preparing presentation.
- Nov 30th / Dec 2nd : Presentation.