



University of Windsor

Master of Applied Computing

**COMP-8920-3 : Selected Topics: Social Network
Data Analysis (Winter 2021)**

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Project Proposal:

Emotional Community Detection in Social Network

- **Overview**

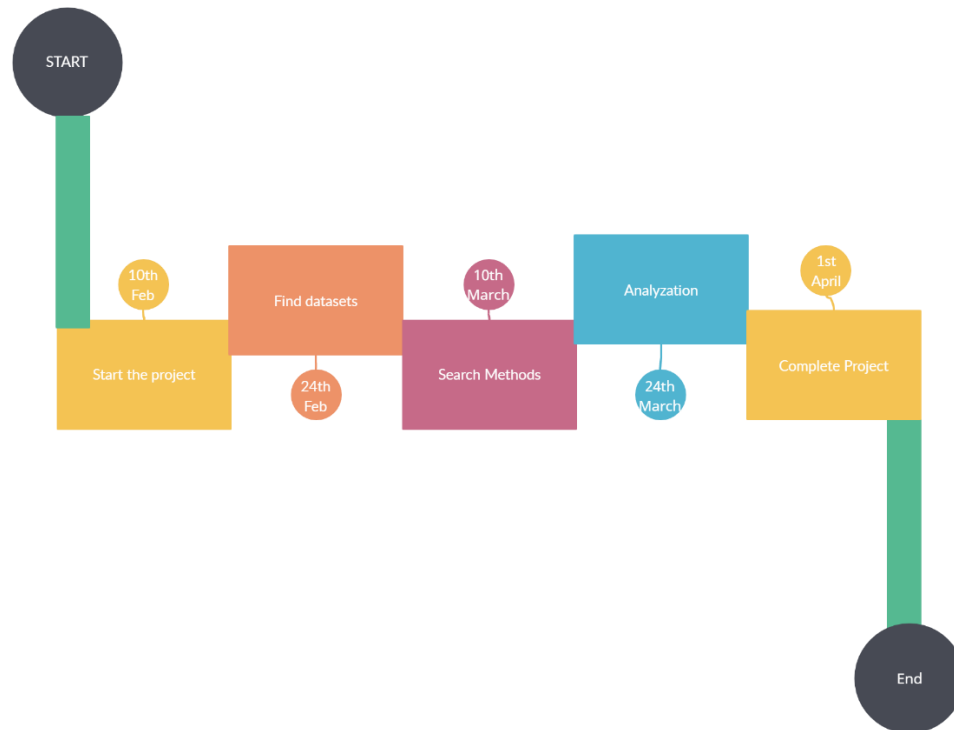
Human emotion detection plays a vital role in the interpersonal relationships. Emotional community detection provides in-depth knowledge of people's behaviour. Community detection and sentiment analysis are two such instances, which is very much popular for the investigation and understanding of social networks. People's decisions as well as their social relationships can be affected and shaped by crowds in social networks, and since public opinion and emotions are important to all aspects of human lives, their recognition is quite important.

This project will describe user's actions and influence in Social networks. This is a new project from my side but previously many people worked on this topic. The people who are keen interested in social network especially in sentimental analysis will find my work useful.

This approach will be used for numerous area. For instance, companies can able to understand about people's view on their products. In addition, it will help to understand how people react to world wide happenings.

First we identify network, then collect datasets using Twitter API, find different methods. After that analyse the collected data.

This project will use Ekman's emotional scale: fear, anger, joy, sadness, disgust, and surprise. Moreover, some methods will be used which is proposed in previous work.



• Project Goal

The goal of this project is to give a great idea about sentimental analysis, it will show people's reaction on different topics. Moreover, it will help to understand how we can detect different communities using various emotions on Twitter. This project will help to understand Social Network Analysis more precisely.

• Project Team

Name	Responsibility	Availability	Comment
Aasthaba Zala	Planning task to completing the whole task.	6 hours per week	Have a good time management skills

• Schedules and Milestones

Milestones	Description	Milestones Criteria	Planned date
M0	Start Project	Topic Identification	2021-02-10
M1	Find datasets	Search Content	2021-02-24
M2	Examine Methods	Analyzation	2021-03-24
M4	Completion	Project Delievery	2021-04-01

• Communication and Reporting

There is a specified channel on Microsoft Teams which will be my first priority of contact. Feedback is very much crucial for every kind of development. For feedback there will be a team meetings and also agenda of the meeting will be given in advance on the channel on Microsoft Teams. However, if it is not possible to connect through Microsoft Teams then there will also an Email system which will use to notify about meeting.

The meetings will be conducted once in a week or twice in a month.

• Delievery Plan

Project Proposal will be completed by 12th of February. Then Twitter datasets will be found out on 24th February. The analyzation of collected data will be done by 10th March. After that methods for sentimental analysis will be examined by 10th of March. This project will be completed on 1st of April.