CSCI 4342 Natural Language Processing
Semester 1 2021/22

Assignment 3: Text Analytics (Group Submission)
Due: Sunday, 20/01/2022 (11.59 pm)

CHOOSE ONE OF THE FOLLOWING:

1) Text Analytics on Twitter Data

i. Register for a **new twitter account** or use any of the group member's **existing twitter account**. Make sure you have **"pip install tweepy"** or other similar packages.
ii. Apply to be a **twitter developer** to request for **twitter developer API** (one member is enough). Complete the application form and wait for your tokens to be delivered (refer slide #26-30). *Application may take 1-3 days to be approved, apply early.
iii. Choose a suitable keyword related to the recent flood disaster in Malaysia and use it as hashtags or keywords to filter the tweets. Be creative and look for the most commonly used terms in social media (i.e., #banjir, #flood, #FloodRelief, #FloodMalaysia, FloodSelangor, etc.).
iv. Use your tokens to extract **live tweets** (refer slide #32-34). Choose 'Malaysia' or 'my' as the location to extract the tweets. Limit your data to 100 tweets maximum.
v. Use the uploaded **data files in italeem** containing the list of **positive, negative, neutral and booster words** to check if each tweet contains any of those terms. Assign and accumulate scores according to Slide #35 for each occurrence of the terms. You may also define your own scoring method that make sense/applicable (e.g., scores between the range of 0 – 1.0 as discussed in class).

2) Text Analytics on Telegram Data

i. Register for a **new telegram account** or use an **existing telegram account** of one of your group members. Make sure you have **"pip install telethon"** or other similar packages.
ii. Apply for **telegram API** (one member is enough). Complete the application form and wait for your approval. *Application may take a few days to be approved, apply early.
iii. Refer to the links given in Slide #44
iv. Try to implement the **"chat-analytics"** or **"Telegrammetry"** project. Find groups related to flood or flood relief, etc in Malaysia and get your telegram data. Limit your data to 100 messages at maximum.
v. Use the uploaded **data files in italeem** containing the list of **positive, negative, neutral and booster words** to check if each tweet contains any of those terms. Assign and accumulate scores according to Slide #35 for each occurrence of the terms. You may also define your own scoring method that make sense/applicable (e.g., scores between the range of 0 – 1.0 as discussed in class).