**GOALS:**

The purpose of this project is to apply Text Mining and Sentiment Analysis using Natural Language Processing techniques on Twitter data:

• Identify the top topics/context within the tweets

• Group the tweets based on the topics

• Classify the tweets by the sentiment they express within each topic

• Visualize the results of the sentiments expressed by topic, sentiment, location, number of followers for the user.

**LANGUAGES USED:**

Python

**Dataset Link**

**TABLE OF CONTENTS:**

1. Abstract
2. Literature Review
3. Explanatory Data Analysis
4. Initial Results
5. Final Results

**CODING FILES**

CIND820\_EDA.ipynb

CIND820\_TopicModelling.ipynb

CIND820\_SentimentAnalysis.ipynb

CIND820\_FullTweetsScrape.ipynb

**PDF DOCUMENTS**

1. AbstractCIND820\_Revised.pdf
2. CIND820\_LiteratureReview.pdf
3. CIND820\_InitialResults.pdf
4. CIND820\_FinalResults.pdf