## ReadMe:

Our code is divided into the categories described below instructions are given on install and make them functional. A dependency graph is also included which shows the order of execution of all the files for the project.

1. **Data Collection**: For data collection API key is needed, the current API key is active till June, 2019. For a later use, one may generate an API key by registering in webhose io and replacing the current key in code.
2. **Backend:** We have done all our code in python and below packages needs to be downloaded from pip/conda. The code would then import these packages.
   1. Sklean
   2. Pandas
   3. Keras
   4. Webhose io
   5. Numpy
   6. NLTK
   7. nereval
   8. Matplotlib
   9. Spacy
   10. Sutime
   11. Wordcloud
   12. pyLDAvis

3. **Front end**: We have used Flask is a micro web framework written in Python for the front end. Please import Flask on your system for UI code to work. Please execute the **main.py** code along with **collaborated.py** code in same folder.

Steps:
   1. Download all the above-mentioned libraries.
   2. Run data collection code.
   3. Download ACLED data for training classifier.
   4. Run TextClassifier.ipynb which stores the classifier and vectorizer to disk.
   5. Run Classify_Summarize_Tag.ipynb.
   6. Run LDA topic modelling.
   7. Run main.py for the UI.

Dependency Graph:
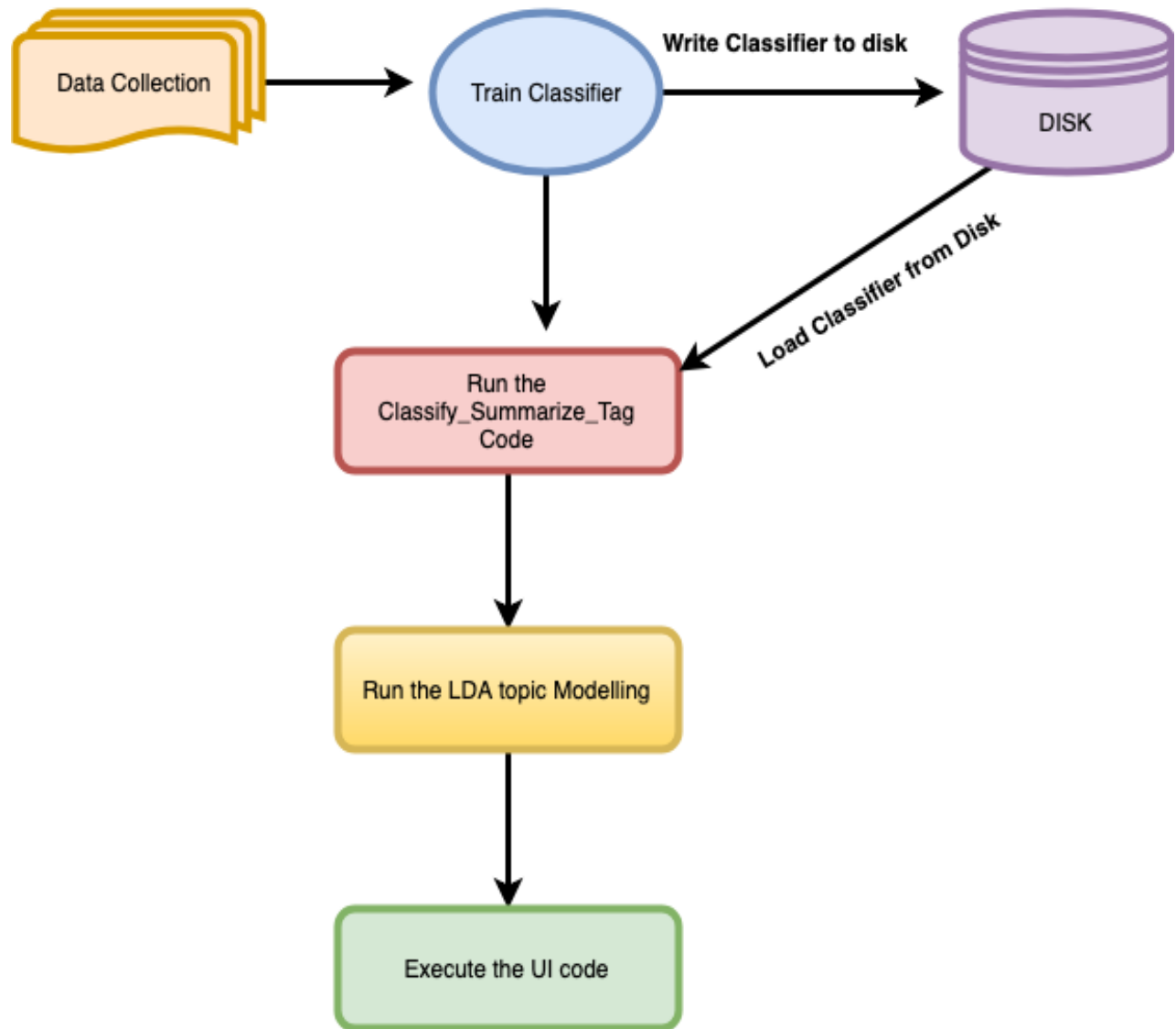
Figure: Flow of execution of various modules