11-1-20 Status Report

Weekly status report for Nov 1-Nov 8

Scope	Schedule	Cost	Risks	Quality

Key Performance Indicators

- **Scope**
    - As this is empirical research, our work has started to evolve in different directions. We knew interesting trends would popup during our work that we would want to explore, which is why we specified this in our project charter scope.
- **Schedule:** `ON SCHEDULE`
    - Schedule Variance: 0 Days
    - Percent complete : **35%**
- **Labor:** `ON BUDGET`
    - Labor hours: 10 hours/person
- **Administration:** `COMPLETE`
    - Sponsor meeting, attendance, hour log

Summary

For this week, we worked on a wide variety of things. There was great progress made in investigating if there is a trend in who leads who for Trump tweets and fox news. Although the difference between a 30 min video and a 180 character tweet is large, we can scan the transcripts for bigrams and see if there are matching bigrams between a tweet and video an hour before or after. This is a good indicator that the content of both are the same. Other than this, we have continued to experiment with the Wikipedia api. We are using the categories applied to each Wikipedia page and some nlp techniques to identify what/who each named entity is. Lastly, we began to research an algorithm called YOLO in hopes it can be helpful in processing the Moody manuals.

Work planned for this week

- Based on the initial investigation of the tweets and news, there may be further work proposed for that by the sponsor
    - CAP-58
- Match name entities in interview to their subject type such as politician, sportsman,et

Work completed this week

Experimental Work

As this is largely a research project, much of the work is experimental. We are trying to employ different techniques to identify the who/what the named entities are. This week ti-idf algorithm was used to hopefully identify the most important tags associated with each named entity.

Dockerize application

The application is setup to be ran through Docker

We are doing this so that the application and database can be ran in the CU compute cluster. The cluster has some different settings, so we need to adjust the Docker settings accordingly

Investigate Trump and fox news correlation

Our sponsor wanted us to start exploring Trump's tweets and Fox news to investigate if either lead each other in what they say

We were originally investigating Trump's tweets and fox news tweets. But our sponsor wanted us to look at the fox news videos. This change was included in this week's code

Plans for next week

- Create a GANTT Chart
  - CAP-60
- We are all working on experimental work that doesn't necessarily need a deliverable at this time. We will all most likely continue this into next week and work with our sponsor on what he would like to see in terms with deliverables on our work.
  - CAP-56
  - CAP-59
  - CAP-58

Open Issues

Deliverables and Milestones for sprint (10/6 to 10/20)

Deliverable or Milestone	WBS	Planned	Forecasted	Actual	Status
GANTT chart	CAP-60	11/17/20	11/17/20		In progress

Open Change Requests

Change Request Name	Change Request Number	Requested Date	Current Status