**MSDS 5243:**

**Informatics & Analytics Practicum II**

**Milestone Proposal Template**

**Project Title:** Sentiment analysis of Twitter data and newspaper letters-to-the-editor to detect learned helplessness in the public sphere

**Team Member #1:** Thea Ledbetter

**Team Member #2:** Mary van Valkenburg

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| **June** | **July** | **August** |
| Plan and organize work and team meeting schedule | Get and clean Orlando Sentinel data | Complete analysis of results |
| Get Twitter data | Get and clean Des Moines Register data | Visualizations |
| Get and clean NY Times data | Get and clean Denver Post data | Write paper |
| Get and clean Atlanta Journal Constitution data | Get and clean San Francisco Chronicle data | Create presentation |
| Write Python code to load and parse individual Twitter files (JSON) to three data frames (one for each event).  Implement Feather for fast i/o and to pass data frames between Python and R. | Create corpora for tweets and letters and create daily sentiment vectors by source and event in R. | Rehearse and fine tune presentation |
|  | Join sentiment vectors to metadata elements to create a dataset of date, event, source, and sentiment | Deliver paper |
|  | Build upon literature review  (twitter data in research, letters to the editor in research, public sphere, learned helplessness) | Deliver presentation |
|  | Begin analysis of results |  |