CSC 405/605 Fall 2019

**Budget Text Analysis**

Project Review Document

Version 1.0

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**Tasks**

Sultan Al Bogami

1. Reconstructed the data hierarchy for the project:

a. Collected the budget documents from 2019-2008.

b. Compressed them to reduce the size of the files.

c. Converted the PDF files into CSV files.

d. Standardized the naming scheme of the data files.

e. Organized the data into folders.

f. Uploaded the data to the project repository.

2. Preprocessed the data for FY2020:

1. Convert the csv files into data frames.
2. Label the data frames adding “organization” column.
3. Combine the data frames and insert a “year” column.
4. Drop unnecessary columns in the combined data frame.
5. Perform text normalization.
6. Produces a single csv file for the year in question.

3. Started the exploratory data analysis.

Miguel Gaspar Utrera

1. Done topic modeling on all seven cities/counties
2. Have concluded that the number of topics that will produce the highest coherence is 35, this gives about .87 coherent
3. Notebooks show the top 10 models for each city/county
4. The davis model shows the top 30 words in each topic and their relevance