Journal Report 16 01/19/19 - 01/25/19 Arvind Ravipati Computer Systems Research Lab Period 1, White

Daily Log

Tuesday January 21

Implemented a Method to Build a Graph from my Array of Arrays of Words. Compared Sentences by their Individual Words and used the Cosine Distance as a Metric. Had to Implement Another Method to Find the Cosine Distance between Sentences. Looked into NLTK's "stopwords." Completed Both these Methods and Looked into how NumPy could Help Organize this Data.

Thursday January 23

Implemented NumPy Methods to Organize the Data and Finalized the Text Summarized Script. Added a Parameter to Control the Number of Sentences in the Summer. Tested the Script with Obama's Speech and Different Size Summaries and Compared Results. Found that 4 Sentences was the Optimal Summary Length.

Timeline

Date	Goal	Met
Jan 10	Look Into Methods of Text Summa-	Yes, Found a Few Sites About Text
	rization from Scratch	Summarization from Scratch
Jan 17	Continue to Look Into Methods of	Yes, Began Implementing a Text Sum-
	Text Summarization from Scratch	marization Script
Jan 24	Be Able to Summarize the Obama	Yes, Summarized the Obama Speech
	Speech in Less than 4 Sentences	in 2 - 4 Sentences
Jan 31	Research into Audio to Text Methods	
	that Can Account for Punctuation	
Feb 7	Research into Audio to Text Methods	
	that Can Account for Punctuation	

Reflection

I was happy to finish implementing my first text summarization script from scratch right before the semester ended. It was more interesting to create this script from scratch, rather than implementing APIs like before. I was also pleased that I can control the number of sentences in the summary. Next week, I hope to be able to switch gears and look into audio to text methods that can account for punctuation. The Obama speech I am using is an official transcript and has punctuation, but the IBM Watson API does not account for punctuation. I hope to quickly be able to solve this problem and go back to focusing on text summarization in the future.

Like other predominantly black churches across the country Trinity embodies the black community in its entirety the doctor and the welfare mom the model student and the former gangbanger. The press has scoured every exit poll for the latest evidence of racial polarization not just in terms of white and black but black and brown as well. I am the son of a black man from Kenya and a white woman from Kansas. A lack of economic opportunity among black men and the shame and frustration that came from not being able to provide for ones family contributed to the erosion of black families a problem that welfare policies for many years may have worsened