AC-2 Data Visualizer for Topic Models 4805-03 Sr. Project

Spring 2023

Sharon Perry

Date: February 3, 2023

Overview

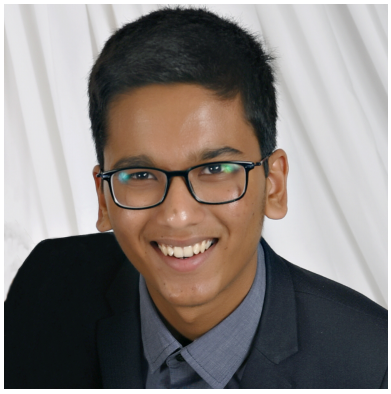
The topical structure of text data, such as Wikipedia articles, may be revealed with the use of topic models, which are statistical models. Companies like Google make use of topic models to automatically find the numerous distinct topics on the internet. The project's objective is to provide a web-based tool that can evaluate, study, and display a Topic Model that has been trained on a dataset like Wikipedia. The model's topics and articles will be accessible to users through our system's straightforward and attractive data visualizations. You may save time and effort by having our system perform all the labor-intensive manual analysis on your behalf.

Project Team

Roles	**Name**	**Major responsibilities**	**Cell Phone**	**Contact (Email and/or Phone)**
Project owner	Arthur Choi	Advice on project		achoi13@kennesaw.edu
Team members	Kalp Patel	Documentation, UI Design, Code Reviews, and testing	(224) 253-1333	patelkalp2001@gmail.com
	Aditya Shiroya	Model Design, testing	(678) 308-7857	adityashiroya@gmail.com
	Michael Cooper	Web Development, Data Visualization	(478) 960-7507	mgcooper5668@gmail.com
	James Roll	Web Development, Topic Model	(404) 513-0030	jamesroll044@gmail.com
Advisor / Instructor	Sharon Perry	Facilitate project progress; advise on project planning and management.	(770) 329-3895	sperry46@kennesaw.edu

Kalp Patel

Aditya Shiroya



Michael Cooper

James Roll

Project website

https://chillsterz3434.github.io/DaViToMo/

Final Deliverables - Specific To Your Project

Web based system: A user-friendly interface for interacting with the model's topics and articles as well as data visualizations that effectively convey the information.
Research report on Topic Model: A complete report that includes all our findings.

Milestone Events (Prototypes, Draft Reports, Code Reviews, etc)

#1 - Requirements Gathering By 02/03/23

- Gather user requirements, research current topic models and data tools.
- Develop a thorough project plan.

#2 - Prototype Development By 03/09/23

- Create a simple system prototype with data processing and visualization.
- Test the prototype and find the areas of improvement.

#3 - System Design and Implementation By 04/15/23

- Complete the system design, put the individual components into action, and combine them to create a working system.

4 - Project Wrap-up By 04/25/23

- Complete the web application.
- Complete documentation.
- Presentation including poster.

Meeting Schedule Date/Time

Biweekly on Thursdays at 11:30am

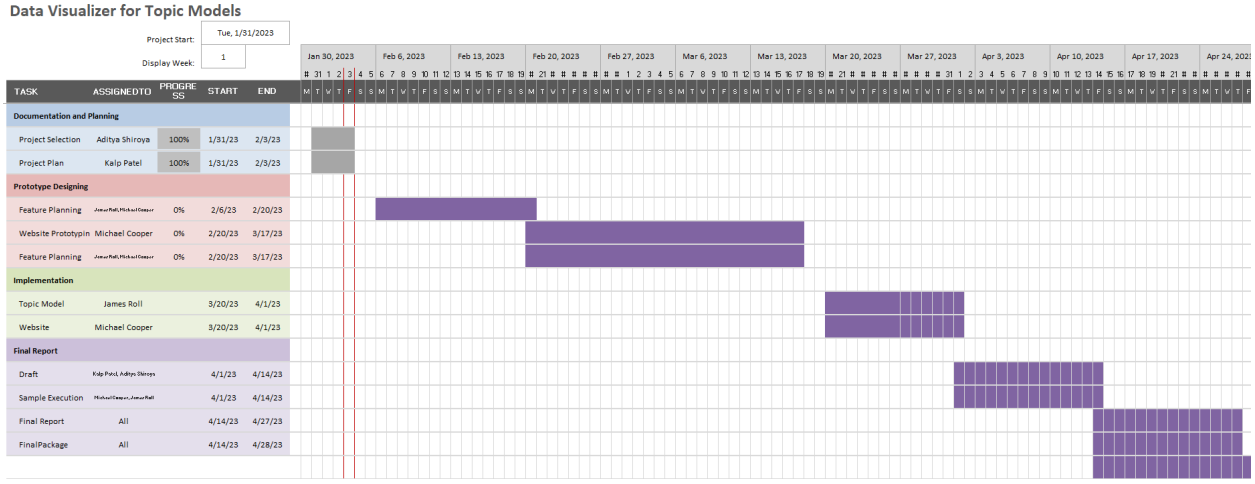
Collaboration and Communication Plan

Regular Meetings: Each week, the team will meet to discuss the progress of the project, resolve any problems, and allocate work for the next week. Meetings will either take place in person or online via teams.

Version Control: To manage the project's source code, the team will make use of a version control system (GitHub).

Communication: Team will use discord and email to communicate with each other.

Project Schedule and Task Planning



Version Control Plan

- Creating the project's Github repository.
- Designating a team member to serve as the repository's owner and be in charge of controlling access.
- Establishing branches for every project feature or component. Because of this, each team member will be able to complete their allocated job without interfering with anyone else.
- After careful testing and evaluation, modifications from each branch will get merged back into the main branch.
- Submitting updates to the repository on a regular basis and documenting significant revisions in the commit messages

Signed by:

_____ __02/03/2023_____

Project Owner