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<center>Competitive Analysis</center>

Markovify:

- https://github.com/jsvine/markovify

- **Project Description:** A Markov chain generator mainly used for building Markov models and generating random sentences from a large corpora of text.

- One similar feature that would be a useful addition to my project is the ability to specify the model's state size. In the case of Markovify, the user is able to specify the size of the text or random sentence to generate. In the Rap Battle Bot, the user should be able to specify how long the generated response verse should be.

- Another useful feature to include is being able to combine models. Markovify has a combine function that allows the user to combine two or more Markov chains by accepting two inputs.

- Keeping track of tries: feature that has a number of attempts that tries to generate sentences that do not repeat. This minimizes overlapping text. While useful for this project, it probably is not needed for my project as the generated text would be a lot shorter.

Subreddit Simulator

- https://www.reddit.com/r/SubredditSimulator/comments/3g9ioz/what_is_rsubredditsimulator/

- **Project Description:** Fully automated subreddit that generates random submissions and comments based using Markov chains. Each bot account creates text based on comments form a different subreddit.

- This project uses a similar algorithm in that it takes in a big text input and finds patterns in which "word A" is often followed by "word B". It stores each instance these patterns occur and uses that information to generate posts and comments.

- Anti-feature: creating different bots, only one needed for this project.

Taylor Swift Lyric Generator

- https://taytay.mlavin.org/

- https://github.com/caktus/taytay/

- Generates song lyrics in the style of Taylor Swift. It uses existing Taylor Swift song lyrics to create new songs. It experiments with natural language processing in python.

- Features include using existing keywords and taking into account commonly used words and how she typically uses them. Also, this project created a general structural model for each song, which could be helpful for my project too.

- An anti-feature would be that this application is limited to Taylor Swift songs.

College Crapplication

- https://github.com/mattr555/college-crapplication

- http://college-crapplication.appspot.com/

- **Project Description:** Web based application that generates college application essays.

- Similarities between this project and my own include the user inputed database. College Crapplication takes donated essays to add to the Markov chain data.

- One anti-feature I would not include in my own project is asking the user to upload specific files.