NLP Project Ideas:

1. Harry Potter and the Journey into NLP
   1. Using the text of all hp books, apply various different nlp algos to find interesting patterns
   2. Ideas:
      1. Character discussion pairs: Which character mentioned another character, and how often
         1. Representation as an interactive circle graph, with closely related groups next to each other
         2. Can click on a name in the graph to highlight connections stemming from that name
         3. Representation would be great matplotlib practice
      2. Spell Use Network Graph
         1. https://paulvanderlaken.com/2018/01/23/harry-plotter-network-analysis-of-spell-usage/
      3. Sentiment Analysis
         1. How dark, happy, sad, whatever, do the books get over time.
         2. Trying to recreate the many, many, existing graphs
            1. <https://towardsdatascience.com/basic-nlp-on-the-texts-of-harry-potter-sentiment-analysis-1b474b13651d>
            2. https://nacnudus.github.io/duncangarmonsway/posts/2016-07-20-harry-potter-arcs/
2. Discord Text Rip from Ferrous Core: Debate Channel
   1. Can you create a chat bot which mimics a specific users speech patterns in the channel?
   2. Can you use sentiment analysis to measure specific time frames for real world events, and create an autocoorelator with a news source?
      1. Ie, RBG dies, identify sadness in channel messages, and find NYT article with relevant timestamp