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NLP Summary

Taking an NLP class has been a transformative experience, equipping me with a wide range of skills and tools that have helped me to better understand and analyze human language. One of the key skills I have developed in this class is the ability to preprocess and analyze large amounts of text data using Python libraries like NLTK and spaCy. This has allowed me to clean and process raw text data and identify key linguistic features such as part of speech, named entities, and sentiment.

Another skill I developed in this class is the ability to build and train machine-learning models for NLP tasks such as text classification and sentiment analysis. Through hands-on exercises and assignments, I have learned how to use popular machine learning frameworks like sci-kit-learn and TensorFlow to train models that can accurately classify text data.

As someone who has a passion for NLP, I have several plans for simple future projects that I hope to work on in the near future. One such project is to build a better and larger functioning chatbot. I really thought that building a chatbot in class was pretty cool especially right now with all the hype for ChatGPT. Another project that I have in mind is to build a sentiment analysis model for social media data. This would involve preprocessing and cleaning large amounts of social media data, using techniques like named entity recognition and sentiment

analysis to extract meaningful information and building a machine learning model to classify the sentiment of individual posts or tweets.

Overall, the skills that I have learned in this NLP class have been incredibly valuable, both for my academic and professional pursuits. By learning to preprocess and analyze large amounts of text data, as well as to build and train machine learning models for NLP tasks, I feel well-equipped to tackle complex problems and advance the field of NLP.