Neural Networks Project 3 Proposal

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Goal:

The goal of this project will be to perform a sentiment analysis on tweets about US airlines. Each tweet can be categorized as negative positive or neutral. The dataset that will be used is the twitter US Airline Sentiment dataset which can be found at:

https://www.kaggle.com/crowdflower/twitter-airline-sentiment

Plan to Preprocess Data:

In order to preprocess the data tokenization, normalization and noise removal will be done. All html tags, white spaces punctuation marks will be removed, contractions used will be expanded, the "@username" and numbers will also be removed. Stop words like we, are and they will be removed and lastly all text will be converted to lower case. The model that will be used to execute this analysis is Recurrent Neural Networks.

Expected Outcome:

Report including abstract, introduction literature review, discussion on model, training, and conclusion.