

Module 3: Analyzing Sentence Structure

Case Study

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ABC Company wants to perform some text analysis and make visualization for one of their dataset.

The dataset has been taken from Kaggle.

(<https://www.kaggle.com/crowdflower/twitter-airline-sentiment/home>)

This is a dataset having tweets about 6 US Airlines along with their sentiments: positive, negative and neutral.

You are provided with this dataset named “Tweets.csv”.

This is a snapshot of the dataset:

	text	airline_sentiment
0	@VirginAmerica What @dhepburn said.	neutral
1	@VirginAmerica plus you've added commercials t...	positive
2	@VirginAmerica I didn't today... Must mean I n...	neutral
3	@VirginAmerica it's really aggressive to blast...	negative
4	@VirginAmerica and it's a really big bad thing...	negative
5	@VirginAmerica seriously would pay \$30 a fligh...	negative
6	@VirginAmerica yes, nearly every time I fly VX...	positive

It has tweets in ‘text’ column and sentiments in ‘airline_sentiment’ column.

1. Retrieve all tags starting from ‘@’ in the entire dataset and save in a file called “References.txt”
2. Extract all noun phrases from their dataset and save them in different lines in a file named “Noun Phrases for <airline_sentiment> Review .txt” (You can choose your own grammar for noun phrase).
Here <airline_sentiment> will have 3 different values: positive, negative and neutral so 3 files will be created.
3. Extract all verb phrases from their dataset and save them in different lines in a file named “Verb Phrases for <airline_sentiment> Review .txt” (You can choose your own grammar for noun phrase).
Here <airline_sentiment> will have 3 different values: positive , negative and neutral so 3 files will be created.

4. For each sentiment, make a well labelled pie chart showing distribution of Noun Phrases and Verb Phrases of that sentiment from the data set. Use the above created files to get the frequencies.

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