**Capstone project proposal 1:**

**Amazon reviews sentiment analysis**

1. Goal: To conduct sentiment analysis on Amazon reviews using Natural Language Processing (NLP).
2. Client: This project targets Amazon as the client. Based on the sentiment classification of the reviews, Amazon can offer a better insight of the reviews to its customers, beyond the star weighting system they currently have.
3. Data: I will be using Amazon product reviews datasets. This data will be obtained from the Stanford Network Analysis Project (SNAP) database.

1. Analysis:

* The first step would involve text cleaning and words extraction using different NLP techniques.
* EDA on the types of product categories, create a bag of words for each categories and identify the word and bigram frequencies.
* Based on the star weighting on each review, try multiple classification algorithms to find the best one to predict the sentiment of the reviews across different product categories.