Github repo: https://github.com/teohangxanh/5290/tree/master/Project

CSCE 5290: Natural Language Processing

Project proposal

Project title: Sentiment analysis - Trip advisor reviews

Team member:

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1. Motivation:
   a. Saves costs and time / resources for hospitality business
   b. Human resources and time schedule
   c. Appropriate investment for improvement
   d. Importance of each department
2. Significance:
   a. Chooses a platform that can handle large data sets (20491 x 2) – Probably Pytorch
3. Objectives:
   a. We extract important information from reviews for hospitality businesses to look at and redistribute their sources appropriately
   b. They can improve their weaknesses
   c. If possible, we will create a survey for customers to answer and give them options that seem to be a good fit (recommender system)
4. Features:
   a. Bag of Words
   b. TF-IDF
   c. POS
   d. Autoencoder for dimensionality reduction
   e. Spacy
   f. Pytorch
5. Reference:
   https://medium.com/artefact-engineering-and-data-science/customer-reviews-use-nlp-to-gain-insights-from-your-data-4629519b518e