Text Summarization using Deep Learning

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Problem Statement

Customer reviews are often long and detailed. Manually parsing these reviews takes a lot of time. This is where the brilliance of Natural Language Processing can be applied to generate a summary for long reviews. Our objective here is to generate a summary for the Amazon Fine Food reviews using the abstraction-based approach.

Dataset

This dataset consists of food reviews from Amazon. The data spans a period of more than 10 years, including all reviews of approximately 500,000 as of October 2012. These reviews include product and user information, ratings, plain text review, and summary. It also includes reviews from all other Amazon categories, Link of the dataset is: https://www.kaggle.com/snap/amazon-fine-food-reviews

Tools

I. **Technology** :

1. Python

2. Jupyter Notebook

II. **Libraries** :

1. NumPy

2. Pandas

3. Matplotlib

4. Seaborn

Algorithms

1. NLP
2. Topics