

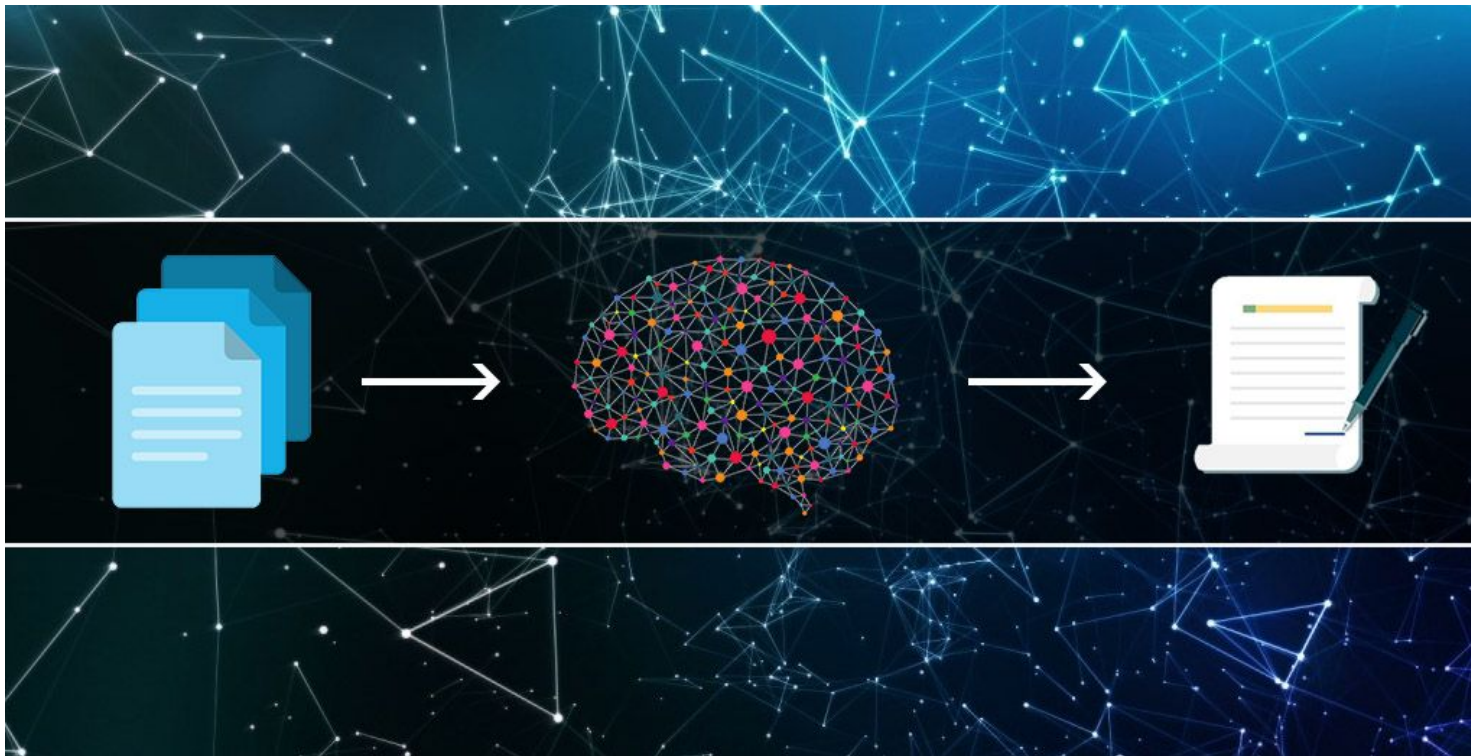
أكاديمية سدایا
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Text Summarization using Deep Learning

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Automatic text summarization

is the process of shortening a text document with software, in order to create a summary with the major points of the original document.



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.



Automatic text summarization

- **Reasons to create summaries:**

- More and more text data
- Less and less time

- **The objective:**

How can you say the most important things in shortest amount of time?

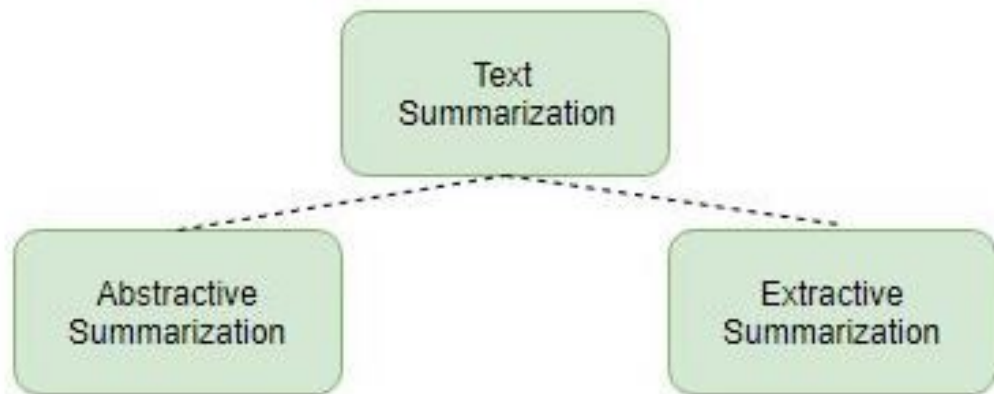


Dataset Description

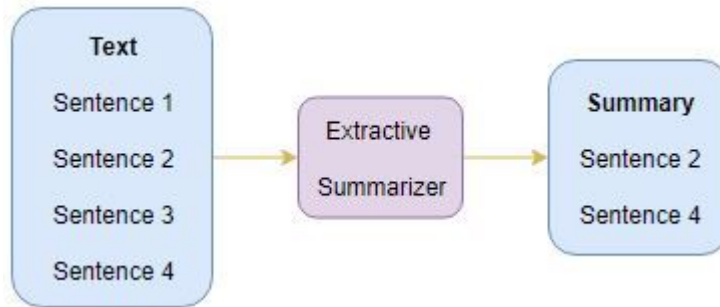
This dataset consists of food reviews from Amazon.

Link of the dataset is:

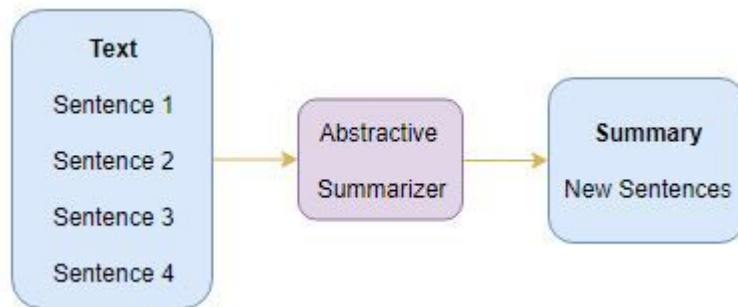
<https://www.kaggle.com/snap/amazon-fine-food-reviews>

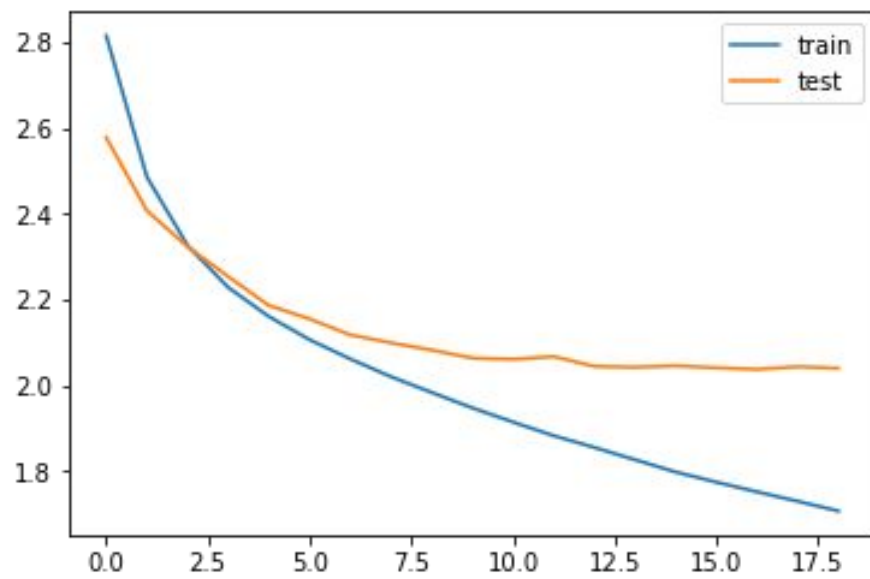


Extractive Summarization



Abstractive Summarization







Result

Review: got great course good belgian chocolates better
Original summary: would like to give it stars but
Predicted summary: good

Review: one best flavored coffees tried usually like flavored coffees one great serve company love
Original summary: delicious
Predicted summary: great coffee

Review: salt separate area pain makes hard regulate salt putting like salt go ahead get product
Original summary: tastes ok packaging
Predicted summary: salt

Review: really like product super easy order online delivered much cheaper buying gas station stocking good long drives
Original summary: turkey jerky is great
Predicted summary: great product



Conclusion

In this project, we have developed a Text Summarizer model which generates the summary from the provided review using the LSTM model



Future Work

- Website
- Mobile App