AutoGen Hackathon

The Readability Scoring Formulator

November 2023

Problem

Classifying text into the corresponding industries, summarizing them, and determining the readability level for each text is undeniably a time-consuming and labor-intensive task.
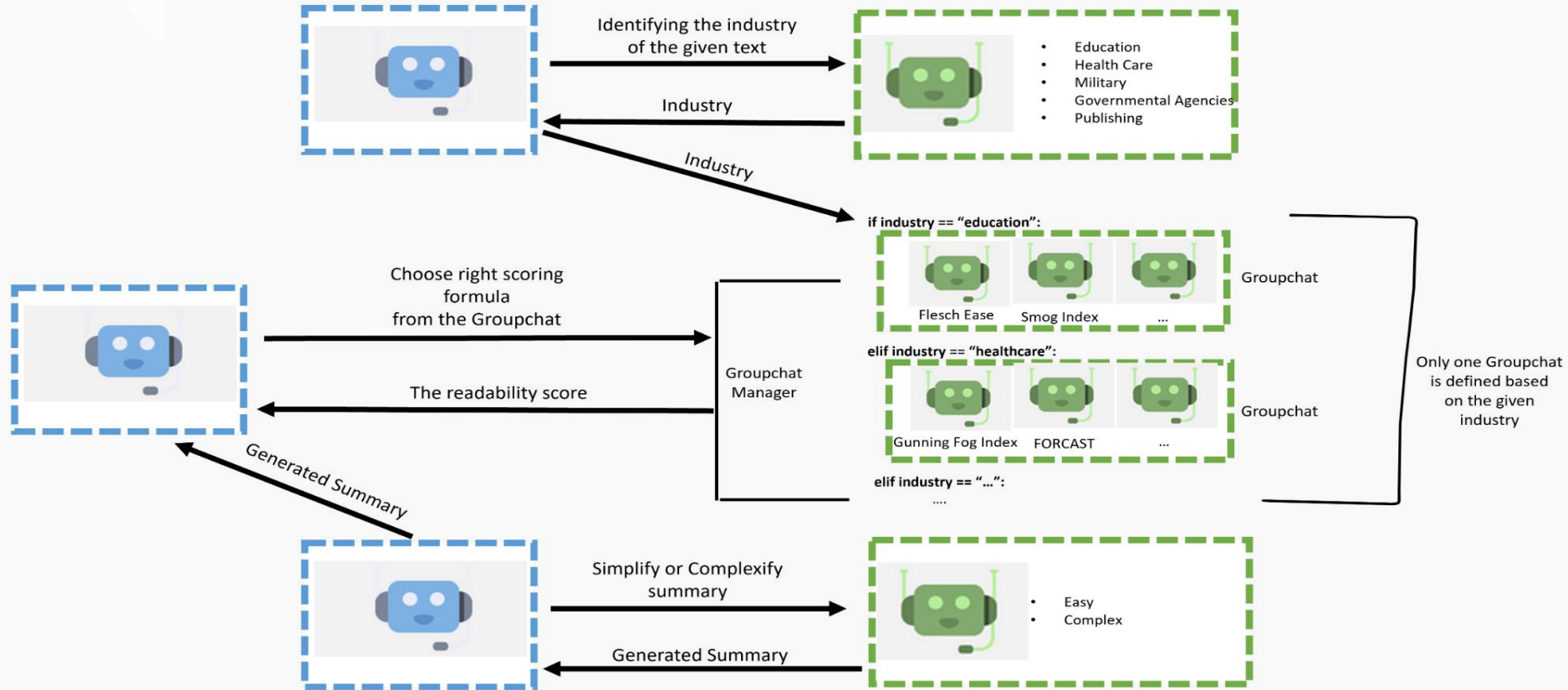
1. **Heterogeneity of Text Data**: Text data varies widely across sources, including articles, research papers, social media posts, and more. Each type requires a unique approach to classification, summarization, and readability assessment.
2. **Subjectivity in Readability**: Assessing the readability of text is inherently subjective, as what's considered "easy" or "difficult" to read can vary based on individual preferences and backgrounds.
3. **Quality of Summaries**: Automatically generated summaries must balance brevity with completeness.
4. **Time Sensitivity**: In time-sensitive industries like news or finance, the speed of classification, summarization, and readability assessment directly affects the value of the information.

Our Solution

01 We develop intelligent AI agents for industry classification of documents.

02 Our smart AI agents provide text summarization capabilities, offering both complex and simplified summaries.

03 Our advanced AI agents determine the appropriate readability score for input summaries.

Identifying the industry of the given text

Industry

- Education
- Health Care
- Military
- Governmental Agencies
- Publishing

Industry

if industry == "education":

Groupchat

Flesch Ease   Smog Index   ...

elif industry == "healthcare":

Groupchat

Gunning Fog Index   FORCAST   ...

elif industry == "...":
....

Only one Groupchat is defined based on the given industry

Choose right scoring formula from the Groupchat

The readability score

Groupchat Manager

Generated Summary

Simplify or Complexify summary

- Easy
- Complex

Generated Summary

Our Technology

Our AutoGen agents analyze input documents to identify the relevant industry and select an appropriate readability scoring formula.

Subsequently, another set of AutoGen agents generates two summary options: one complex and one basic.

Finally, a final AutoGen agent assesses the readability of the generated summary using the pre-selected readability scoring formula.

Our Team

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