Generating Multiple Questions from Presentation Transcripts: A Pilot Study on Earnings Conference Calls

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Scenario

What kind of questions audiences may ask me?

Presentation

Good day, and welcome to the Apple Q4 fiscal year 2022 earnings conference call.

One-to-One Question Generation

Condition: gross margin
Can you talk a bit about gross margin puts and takes?

Proposed MQG
1. Can you talk a bit about gross margin puts and takes?
2. How you think about balancing the consumer price versus your own costs and kind of the associated follow-through?
3. Any preliminary thoughts around capital intensity into fiscal 2023?

Multi-Question Generation (MQG)

Experimental Results

Preparation for a Presentation:

Academia Conference Presentation, Political Speech, Debate...

Retriever and Generator:

Generative IR, Large Language Models

Question Diversity:

Same Topic, Too Simple, Unprofessional

Future Directions


BM25 + FROST

Experimental Results

MQG with Keypoint Retriever (MQG-KR)

Approach of Previous Studies

Content → Question Generator → Question

Content → Question Generator → Question


Future Directions