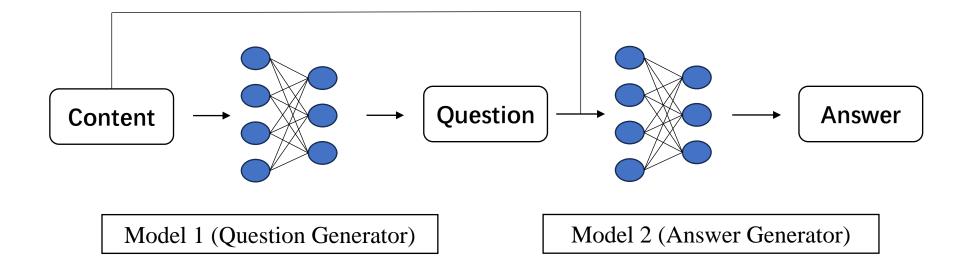
Generate Question-Answer pairs

First Idea



First Idea



Source: Huggin Face

Pros:

Fast to run Free to use

Cons

Only generate simple questions Cannot generate specific types of problems

Generated Questions:

- 1. What's the purpose of this paper?
- 2. What's the focus of this study?
- 3. What's the main idea of this paper?

•••

Second Idea

```
people of contents questions(mattiple papers, info);

popul of contents to pure personal a question that belongs to the following question types: To distinguish what writine each question meands to mention searching like the author's mase, the date of publication or the title of the paper.

Question types:

continuation questions, factoditype questions, list-type questions, consol questions, hypothetical questions, complex questions

paper information

[multiple_papers_info

format:

for [paper 1 little]:

continuation questions [continuation question]

for [paper 2 little]:

pro [paper 2 little]:

pro [paper 3 little]:

pro [paper 4 little]:

pro [paper 4 little]:

pro [paper 5 little]:

pro [paper 6 little]:

pro [paper 7 l
```

Use gpt-3.5 api to generate questions and answers

Second Idea

Confirmation Question

- **Q:** Did the implementation of the training protocol have an effect on the child's intelligence quotient?
- A: Yes, the training protocol was effective in establishing relational responding and promoting fluency and flexibility in all three types of trained relations, resulting in an increase of over 1.5 SD in the General Cognitive Index of the McCarthy's Aptitudes and Psychomotricity Scale.

Factoid-type Question

- **Q:** What cognitive deficits were found in young people at risk of developing bipolar disorder?
- A: Only verbal intelligence and affective response inhibition were significantly impaired in the at-risk group relative to healthy control participants, while the BD (bipolar disorder) group showed significant deficits in attention tasks compared to healthy controls.

List-type Question

- **Q:** What variables were hypothesized to be associated with lifetime blast exposure (LBE)?
- A: Single-item LBE, combat exposure, years in the military, number of combat deployments, and military occupation specialty (MOS).

Current Problem

GPT-3.5

GPT-3.5 models can understand and generate natural language or code. Our most capable and cost effective model in the GPT-3.5 family is gpt-3.5-turbo which has been optimized for chat using the Chat Completions API but works well for traditional completions tasks as well.

| MODEL | DESCRIPTION | CONTEXT WINDOW | TRAINING DATA |
|------------------------|---|-------------------|----------------|
| gpt-3.5-turbo-1106 | New Updated GPT 3.5 Turbo The latest GPT-3.5 Turbo model with improved instruction following, JSON mode, reproducible outputs, parallel function calling, and more. Returns a maximum of 4,096 output tokens. Learn more. | 16,385 tokens | Up to Sep 2021 |
| gpt-3.5-turbo | Currently points to gpt-3.5-turbo-0613. | 4,096 tokens | Up to Sep 2021 |
| gpt-3.5-turbo-16k | Currently points to gpt-3.5-turbo-0613. | 16,385 tokens | Up to Sep 2021 |
| gpt-3.5-turbo-instruct | Similar capabilities as GPT-3 era models. Compatible with legacy Completions endpoint and not Chat Completions. | 4,096 tokens | Up to Sep 2021 |
| gpt-3.5-turbo-0613 | Legacy Snapshot of gpt-3, 5-turbo from June 13th 2023. Will be deprecated on June 13, 2024. | 4,096 tokens | Up to Sep 2021 |
| gpt-3.5-turbo-16k-0613 | Legacy Snapshot of gpt-3.5-16k- turbo from June 13th 2023. Will be deprecated on June 13, 2024. | 16,385 tokens | Up to Sep 2021 |
| gpt-3.5-turbo-0301 | Legacy Snapshot of gpt-3, 5-turbo from March 1st 2023. Will be deprecated on June 13th 2024. | 4,096 tokens | Up to Sep 2021 |

Source: OpenAl

The limitation of token of gpt api, we cannot generate questions based on multiple papers

Further Works

- Design a better model for the first idea
- Generate question and answer pairs based on multiple articles.
- Enable more information of paper to be involved in the problem
- Make the types of problems more diverse.