Closed Domain Question Answering with LLMs

Background

The following prompt tests an LLM's capabilities to answer closed-domain questions which involves answering questions belonging a specific topic or domain.



Note that due to the challenging nature of the task, LLMs are likely to hallucinate when they have no knowledge regarding the question.

Prompt

```
Patient's facts:
- 20 year old female
- with a history of anerxia nervosa and depression
- blood pressure 100/50, pulse 50, height 5'5'
- referred by her nutrionist but is in denial of her illness
- reports eating fine but is severely underweight
Please rewrite the data above into a medical note, using exclusively the information above.
```

Code / API

Mixtral MoE 8x7B Instruct (Fireworks) GPT-4 (OpenAI)

```
from openai import OpenAI
client = OpenAI()
response = client.chat.completions.create(
model="gpt-4",
messages=[
    "role": "user",
    "content": "Patient's facts:\n- 20 year old female\n- with a history of anerxia nervosa
and depression\n- blood pressure 100/50, pulse 50, height 5'5''\n- referred by her nutrionist
```

```
but is in denial of her illness\n- reports eating fine but is severely underweight\n\nPlease
rewrite the data above into a medical note, using exclusively the information above."
    }
],
temperature=1,
max_tokens=500,
top_p=1,
frequency_penalty=0,
presence_penalty=0
)
```

Reference

• <u>Sparks of Artificial General Intelligence: Early experiments with GPT-4</u> (13 April 2023)

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