Use ChatGPT to create customer support website

CS550 - Machine Learning and Business Intelligence

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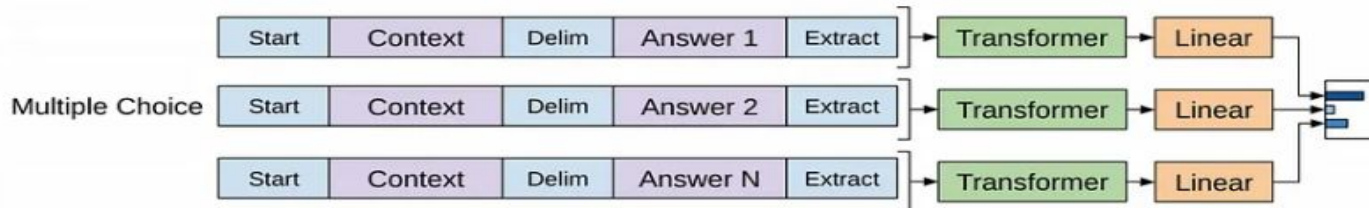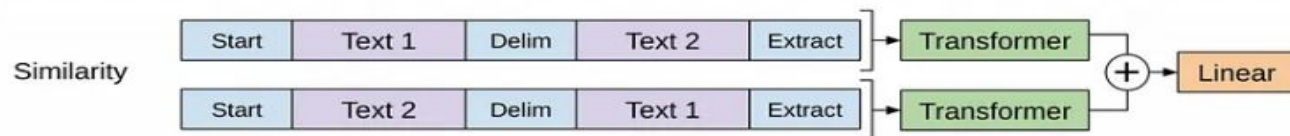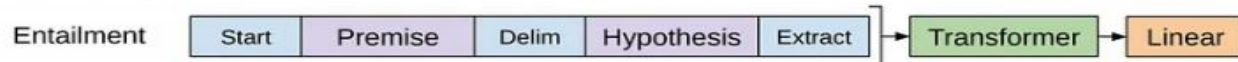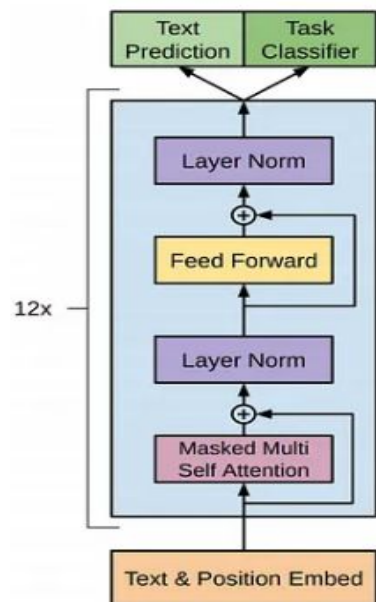Instructor: Dr. Henry Chang

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Introduction

★ ChatGPT is an AI language model developed by OpenAI that uses transformer architecture for text generation.

★ It was trained on a massive dataset of text and can comprehend contextual information to generate accurate responses.

★ It has multiple use cases and can be customized for specific requirements. Its API can be integrated into applications for text generation.

Design

Chat GPT Architecture

Design

- The model is based on the GPT architecture and uses deep learning algorithms to process data.

- ChatGPT is pre-trained on massive amounts of text data, which enables it to understand the structure and patterns of language.

- When a user inputs a question or prompt, ChatGPT uses its pre-trained knowledge to generate a response.

- The model selects the most likely response based on the context of the input and the probability of various response options.

Implementation

★ **Setup Google Cloud Environment**

Implementation

★ Create .env hidden file and add your OpenAI API key to the file. OPENAI_API_KEY=<<YOUR_API_KEY>> # You just need to fill in your API key from https://beta.openai.com/account/api-keys

★ Edit chatgpt.py and replace <> with your prompt:

Ubuntu:

★ python3 -m venv venv
★ . ./venv/bin/activate
★ pip install -r requirements.txt

Implementation

- Create requirements.txt

- Execute the Code:
  - ./venv/bin/activate
  - python chatgpy.py

Change API Key and INSTRUCTIONS PROMPT

Test

← → C ⌂   ⚠ Not secure | 34.171.132.179:5000

📦 Pathways   🔰 Blocklist Removal C...   **a** ^^^()   ▼ Workbench   🌐 chrome-extension:/...   **G**   **B** SHREYA BLOG   **in** Jobs   📦 Cost Managemen

Name my pet

Enter an animal

Generate names

Test

```
What can I get you?: Suggest me healthy foods for the morning
Here you go: Certainly, here are some healthy breakfast options:

- Oatmeal with berries and nuts
- Greek yogurt with fruit and granola
- Avocado toast with a boiled egg
- Smoothie with spinach, banana, and almond milk
- Whole grain toast with almond butter and banana slices
- Scrambled eggs with vegetables and whole wheat toast
- Chia seed pudding with fruit and nuts
- Cottage cheese with fruit and whole grain crackers

Remember, it's important to have a balanced breakfast that includes protein, healthy fats, and fiber to keep you full and energized throughout the morning.
What can I get you?: Is alcolhol is good for health
Here you go: No, alcohol is not considered good for health. While moderate drinking (up to one drink per day for women and up to two drinks per day for men) may
 have some potential health benefits, such as reducing the risk of heart disease, excessive drinking can lead to a range of negative health consequences, includ
ing liver damage, high blood pressure, cancer, and mental health problems. It's important to always drink in moderation and to avoid binge drinking. Additionall
y, some individuals should avoid alcohol altogether, such as pregnant women, individuals with certain medical conditions, and those taking certain medications.
What can I get you?: ▯
```

Enhancement Ideas

★   We can use AWS Platform for the hosting instead of GCP.

★   Instead of Ubuntu, we can also install it in Window and Linux Environment

Conclusion

★ In Summary, **ChatGPT** is a powerful tool that can assist users with a wide range of tasks, from answering questions to generating content.

★ As it is exposed to more data and information, it can continually improve its responses and provide more accurate and helpful information to users.

★ if the input is more open-ended or requires a more detailed explanation, **ChatGPT** may generate longer responses with more context and information.

Github Link

https://github.com/divyapandey03/Machine-Learning/tree/main/ChatGpt/Use%20ChatGPT%20to%20create%20customer%20support%20website

References

★   R, S. (2023, February 23). *Chatgpt architecture explained.* Medium. Retrieved March 20, 2023, from https://medium.com/@sreedevr/chatgpt-architecture-explained-7fc0cbb7426c

★   *Atomic14. (n.d.). Atomic14/COMMAND_LINE_CHATGPT: A command line chat bot using the CHATGPT API from OpenAI. Retrieved March 20, 2023, from https://github.com/atomic14/command_line_chatgpt*