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AI Powered Chatbot

Introduction:

The project aimed to improve the user experience on some government websites by streamlining and simplifying the process of addressing user queries, which were highly timeconsuming up until then. It is typical for government websites to be comprehensive in terms of the information they share. With this project, the goal was to minimize the time that gets consumed in accessing any required information in these websites; leading to a more seamless and efficient experience for the users.

Technologies:

- **React:** Training app and chat bot front end
- Python: Backend application
- MariaDB: Database
- **IIS:** Web server
- **Uvicorn:** Application Server
- GitLab: Source code management
- **ChatGPT:** OpenAI's ChatGPT model for data analysis and prompt processing etc.

Client Details

Name: Confidential | Industry: Software | Location: USA

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Problems:

- **Information Overload:** These websites often contain a vast amount of content, which can be overwhelming for users trying to find specific information. Navigating through many pages and sections to access relevant data becomes time consuming and discourages users from exploring further.
- **Ineffective Search Option:** While a search feature is usually present, it often fails to deliver accurate results or filters out irrelevant content like Static Search content and cannot search from website documents (pdf, docx) content.
- **Complex Navigation:** Users struggle to understand the hierarchy of pages and categories, leading to difficulties in finding the information they require.
- **Broader Context:** Users cannot narrow down searches to specific categories, resulting in a broader and less targeted search experience.

Challenges:

- **Data Analysis:** Performing extensive analysis of website data to extract summarized insights.
- **Response Time:** Delivering real time responses from massive datasets, to ensure dynamic and timely interactions with users.
- **Continuation:** Continuing the conversation to provide seamless and coherent interactions.

Approach:

- Our strategy involved training the ChatGPT model with customized data for individual websites. The intention behind this was to create a chatbots mapped to corresponding websites so that the responses they offer are relevant.
- By training the chatbots with data unique to their corresponding websites, we aimed to enable them to understand and address user queries accurately, within the context of that sites they were mapped to.



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- Categories are used to refine and limit data, enabling focused content exploration.
- Utilizing ChatGPT facilitates seamless chat continuation by retaining previous context.

Modules:

User Management:

- User registration and account creation.
- Authentication and password management.
- User roles and permissions assignment.
- Profile customization and preferences.
- Activity tracking and user engagement analysis.

Site Management:

- Website Configuration.
- Website Access Management.
- Chatbot Script generation.

Document Management:

- Training Chatbot model with large data files.
- Train model from website url.
- Retrain model.
- Remove obsolete trained data.

Category Management:

- Manage Category.
- Train model for specific category.

Statistics Management:

- Gather multiple statistics.
- Provide insights in the dashboard.
- Generate usage and billing reports.

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Architecture Diagram:



Screenshots:

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