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ElevenLabs AI Hackathon

Project: Ebook voice

Turn your eBook PDFs into an AI agent
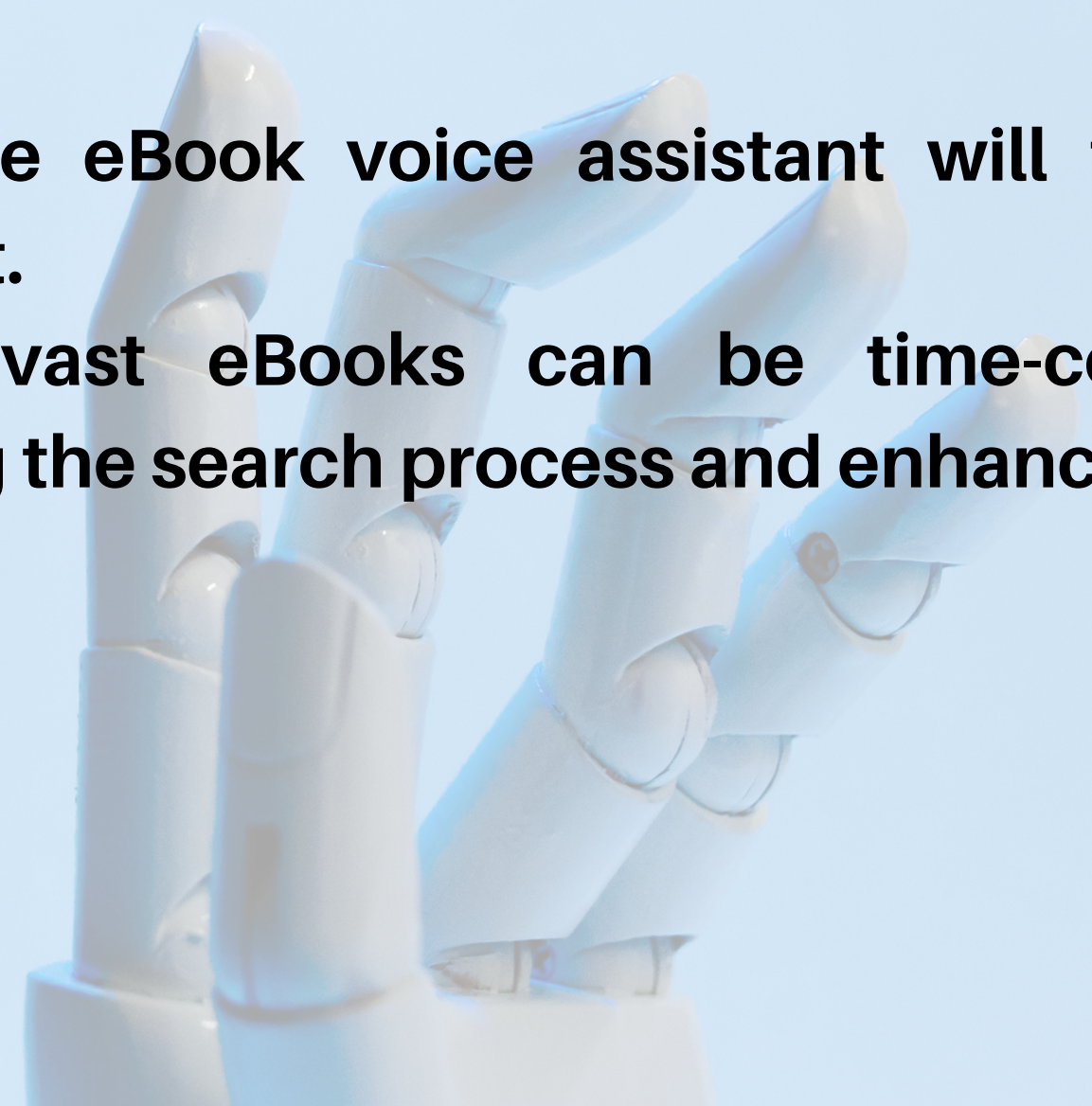
TEAM: STARCODERS

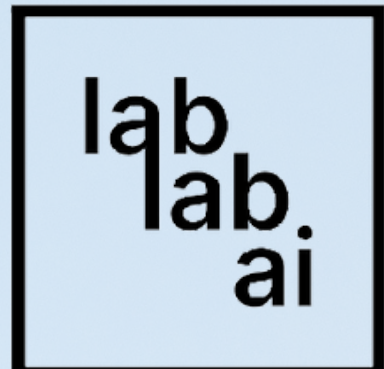**Presented by: Sayyam and Ajay**

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Problem Statement

- With the growing global audience and diverse learners, the eBook voice assistant must support five voice languages.
- Users often struggle to comprehend extensive PDFs or eBooks efficiently, hindering effective learning.
- To cater to varying learning preferences, the eBook voice assistant will facilitate audio conversion of textual content upon user request.
- Searching for specific information within vast eBooks can be time-consuming and discouraging. accurate responses, streamlining the search process and enhancing information retrieval.

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Pain point Addressed

- Our eBook voice assistant should provide a solution to summarize the content, allowing users to focus on key points and relevant information.
- Our eBook voice assistant should allow users to convert the text into audio, and they should have the freedom to select specific parts of the eBook for conversion.
- The query bot feature should efficiently assist users in searching and retrieving specific answers or information from the eBook through natural language queries.
- Our eBook recommendations feature should provide personalized book suggestions tailored to individual users' interests and learning goals.

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Why - Whom - How?

- *Why*: To address the pain points of information overload, limited accessibility, and time-consuming searches, providing a user-centric platform that fosters personalized and engaging learning experiences through advanced AI technologies.
- *Whom*: The primary beneficiaries of this project are learners seeking efficient and interactive ways to consume knowledge. Additionally, educators can benefit from quick access to relevant information, while publishers can expand their reach by collaborating.
- *How*: With the help of ElevenLabs, Langchain, LlamaIndex, OpenAI and Streamlit chat

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Feature - 1 : AudioBook powered by ElevenLabs

- Seamlessly converts any part of the eBook into audio format upon user prompt request, enhancing accessibility and convenience.
- Allows users to absorb knowledge through audio while performing other tasks, maximizing productivity and learning efficiency.
- Users can enjoy AudioBooks in any of the 5 voice languages, breaking language barriers and accommodating diverse learners.
- *Used: ElevenLabs with Langchain, OpenAI Embeddings and FAISS VectorDB*

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Feature - 2 : Summarizer

- Advanced algorithm condenses lengthy PDFs into concise and relevant summaries, saving users valuable time and effort in processing information.
- Users gain the ability to focus on essential content points, facilitating better comprehension and retention of knowledge.
- *Used LlamaIndex with Streamlit*

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Feature - 3: QueryBot

- Users can ask questions from anywhere in PDF, making the process intuitive and user-friendly.
- Query bot provides prompt and accurate answers, saving time and eliminating frustration during information search.
- *Used LangChain with Streamlit Chat*

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Feature - 4 : eBook Recommendations

- The recommender system analyzes user preferences and reading habits to offer tailored eBook suggestions.
- The recommender system spans various subjects and genres, ensuring users discover books aligned with their interests.
- *Used OpenAI with Streamlit*

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