

A CASE STUDY

Medical Document Summarization with Anote

CLIENT	Weill Cornell
TASK TYPE	Summarization

THE PROBLEM

Abstractive Health aimed to enhance the summarization process of medical charts by reducing the time and cost. For abstractive health, providing training data to the LLMs to predict medical chart summaries requires skilled annotators to label medical summaries. These 3-4 yr medical students get paid \$20/hr to summarize around 4 medical charts per hour. Abstractive Health was spending an estimated \$50,000 on annotators to summarize 10,000 charts annually, posing a significant drain on resources and time. Abstractive Health was previously using an annotation interface called Redcap, because of its complex interface. However, because patient medical charts contain sensitive PII / private information, the data was required to be completely on premise which made finding a better annotation interface extremely difficult.

KEY FEATURES & BENEFITS

Streamlined Workflow

With the Anote Interface, Abstractive Health's annotators eliminated the need for manual chart summarization. They could focus on reviewing and refining the AI-generated summaries from Abstractive Health, rather than starting from scratch.

AI Assistance

By leveraging AI capabilities, Abstractive Health harnessed the power of LLMs to automate the summarization process. The AI model generated initial summaries, saving significant time and effort for the annotators.

Collaboration and Task Management

This empowers admins to assign medical charts to annotators efficiently. Admins could monitor progress, allocate tasks, and ensure a smooth workflow. Annotators, in turn, had a user-friendly interface to review and refine the AI-generated summaries, enabling collaboration between annotators and the AI model.

INTRODUCTION

Abstractive Health is a generative AI startup in New York City that helps leading healthcare organizations such as Weill Cornell, who face significant challenges when it comes to summarizing large volumes of medical documents. Currently, the process of summarizing medical charts is time-consuming, requiring the expertise of third or fourth-year medical students to manually write summaries for each patient chart. With hundreds of thousands to millions of medical charts to process, this approach was labor-intensive and expensive. To address this issue, Abstractive Health helps leading healthcare institutions like Weill Cornell leverage language models (LLMs) to expedite the summarization process, leading them to collaborate with Anote, a trusted partner known for their innovative annotation interface.

THE SOLUTION

Abstractive Health collaborated with Anote, who offered a comprehensive annotation interface that seamlessly integrated with Abstractive Health's existing systems. Users could upload medical charts and customize questions for the AI model to generate summaries. With the Anote Interface, they were able to run the annotation system on-premise, keeping the medical charts local and secure within Weill Cornell hospital.

RESULTS

By adopting Anote, Abstractive Health achieved substantial improvements in the efficiency and cost-effectiveness of medical document summarization.

80%

reduction time spent

\$40k

estimated annual savings

SUMMARY

Through their collaboration with Anote and the implementation of the Anote Interface, Abstractive Health successfully addressed the challenges associated with summarizing large volumes of medical documents. The adoption of LLMs, facilitated by the interface, revolutionized the workflow, significantly reducing the time and cost involved in the medical summarization process.

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