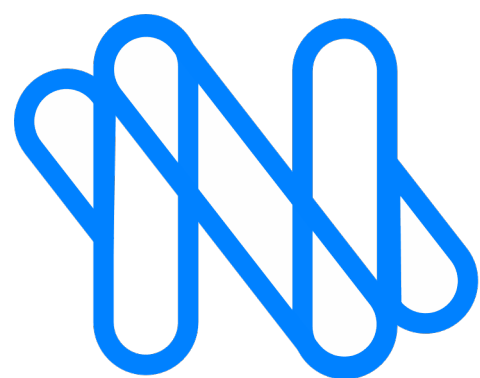


PP18: Integrating Artificial Intelligence (AI) into Daily Work

A Systematic Review Use Case

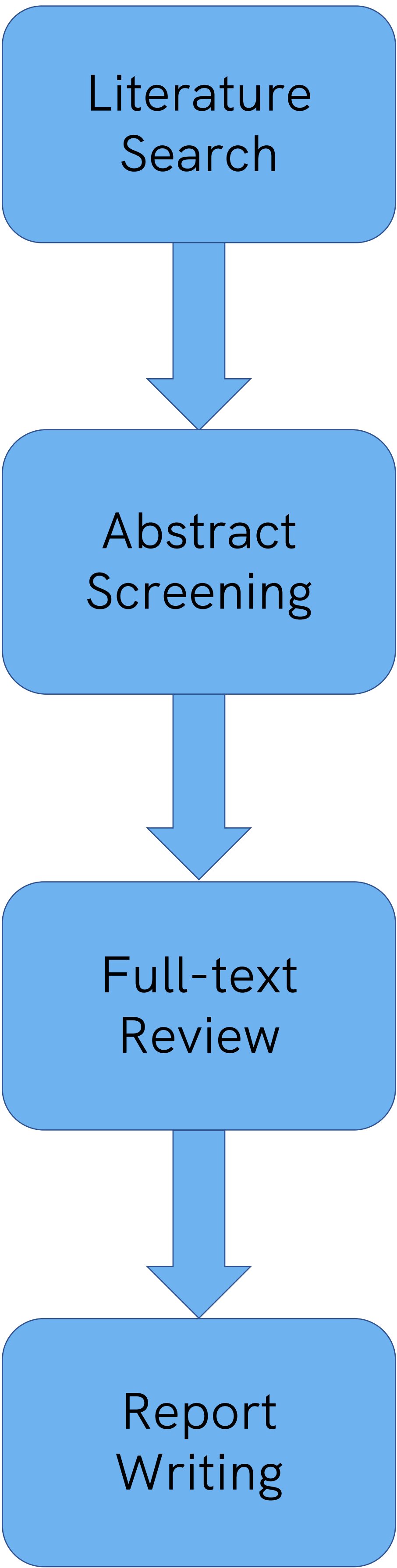
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Introduction

The rapid advancements in artificial intelligence (AI) have transformed various domains, offering unprecedented opportunities for enhanced productivity. In particular, AI models, especially large language models (LLMs), have shown great potential in revolutionizing document processing tasks. This poster aims to demonstrate using AI tools in conducting systematic reviews at different stages.



Semantic search goes beyond just matching keywords and considers the meaning and context, allowing for a more comprehensive retrieval of relevant literature.

AI models reduce ambiguity by recognizing synonyms, acronyms, and related terms. AI models can quickly classify papers based on inclusion/exclusion criteria and historical decisions.

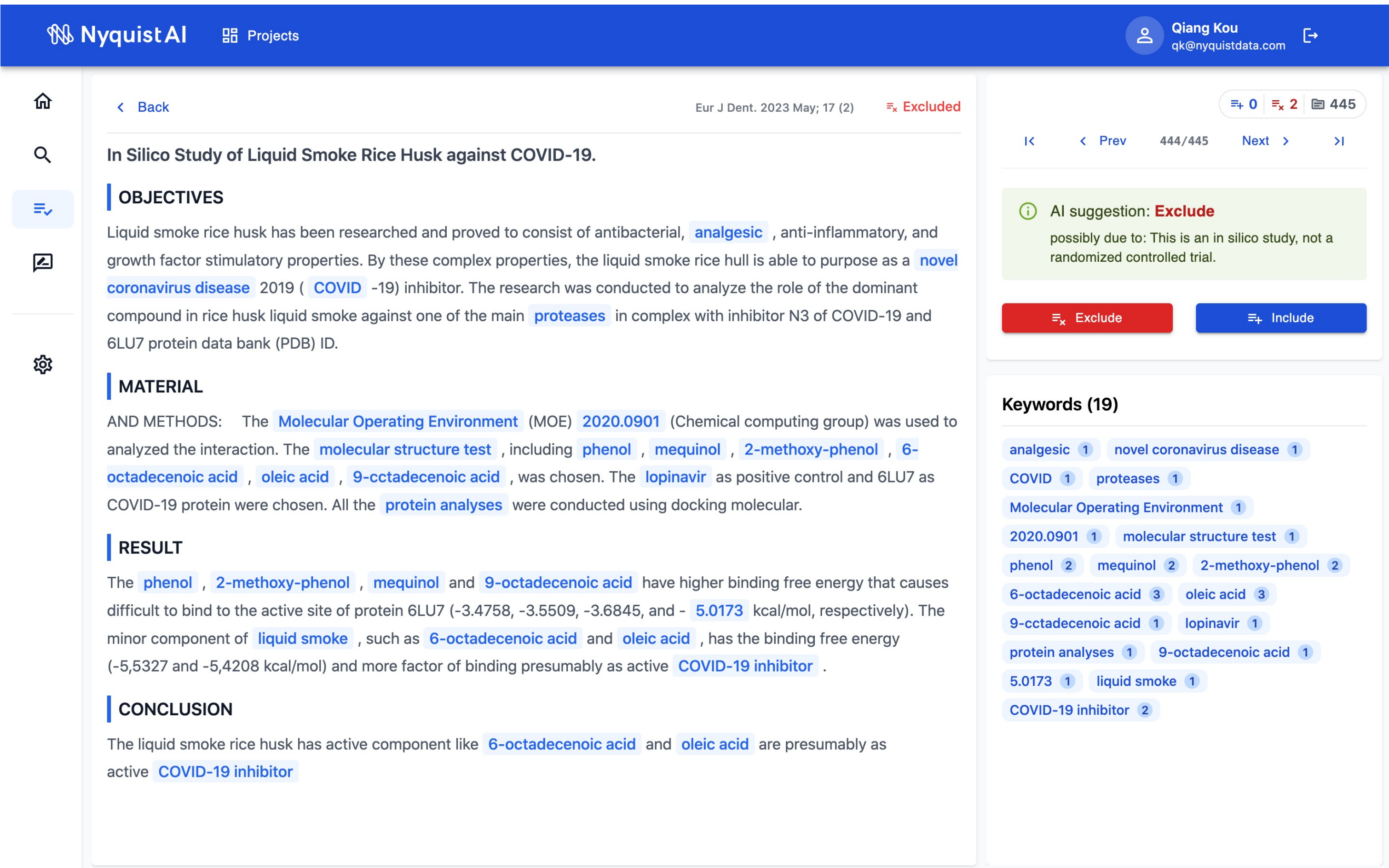
Large language models (LLMs) can work as a personal research assistant to answer questions on specific papers.

Generative AI models can assist in generating initial drafts for report. Researchers can input basic points, and the model can expand on them, suggesting paragraphs or sections with relevant information.

Conclusion

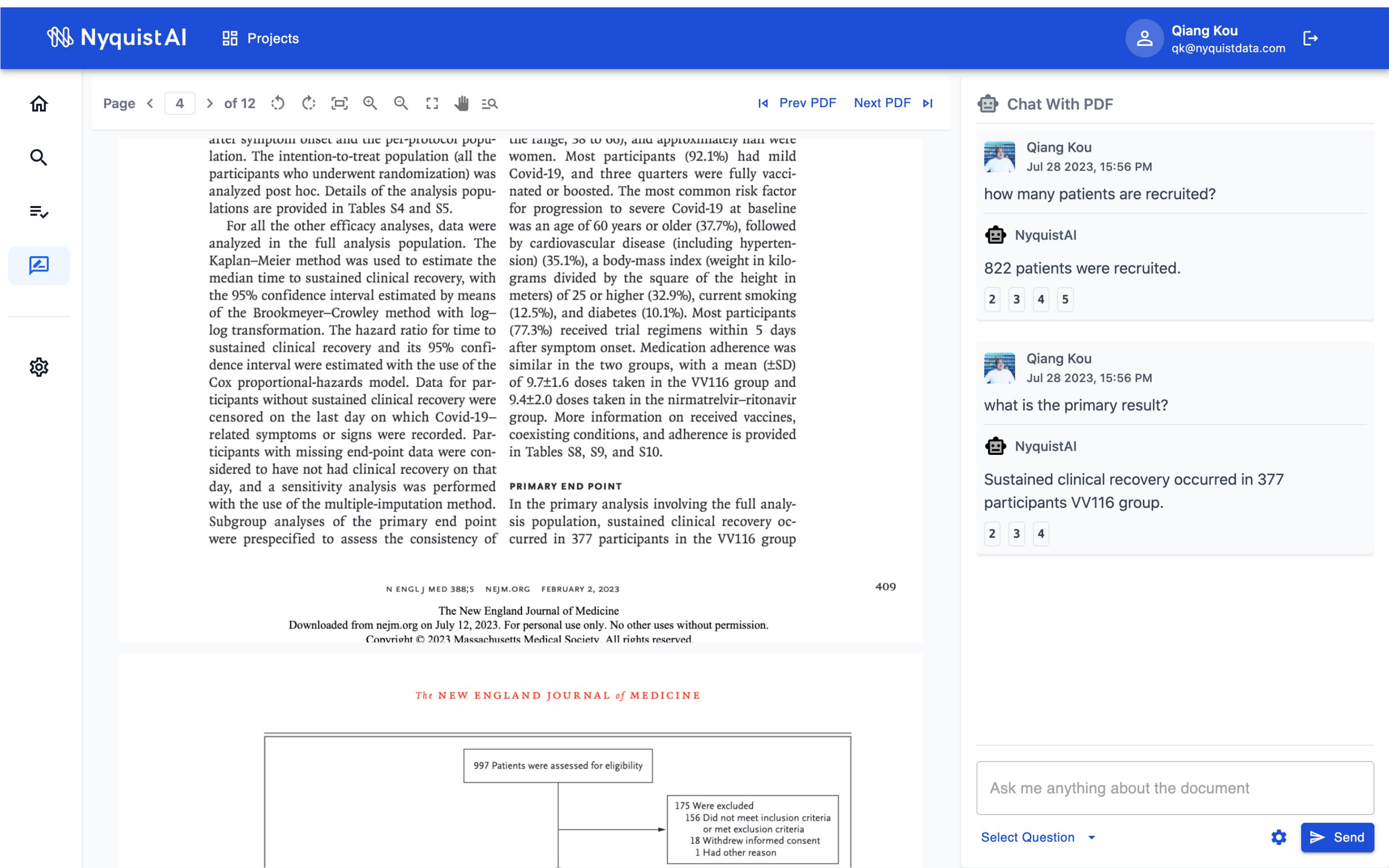
By automating the extraction and synthesis of data, AI models can significantly reduce the manual effort and time required for reviewing and summarizing relevant literature. Adopting AI tools for systematic reviews can improve productivity, reduce resource burdens, and ultimately accelerate the approval of new products.

AI-enabled Abstract Screening



A prototype for AI-enabled abstract screening. It uses AI models to highlight biomedical keywords and provide suggestions for inclusion/exclusion decisions.

AI-assisted Full-text Review



LLMs can answer researchers' questions on included papers.

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