

# Final Group Project - Research Paper Summarizer

Group 17

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As students, we are often overwhelmed by the sheer volume of research papers we need to read for class assignments. Spending hours reading through dense texts leaves little time for truly understanding the key ideas and their implications. Our group aims to address this problem by developing a web platform that automatically summarizes research papers and answers questions about their content. This website will allow the user to submit a pdf or text and provide a summary back to the user.

By utilizing state-of-the-art natural language processing techniques, our project will provide students with concise yet informative summaries of papers to help them efficiently grasp the most important concepts. If any aspects remain unclear, users can pose questions to our system. It will retrieve the most pertinent sections of text using document embeddings and utilize OpenAI's question answering abilities to respond based on the extracted information. The front-end, built with Streamlit, will seamlessly integrate these functions by displaying summaries alongside the ability to ask questions and obtain targeted answers. Working together, LangChain, OpenAI, and Streamlit will accomplish our goal of helping students smartly digest large amounts of academic literature.