

ResearchoBot: A Virtual Research Assistant

The Phantom Troupe

Content

- Introduction
- Problem Statement
- Solution
- Benefits
- ResearchoBot in action



Introduction

- Literature Review precedes every research work: Researchers have to survey multiple papers over many days to identify gaps in current research
- Takes significant time and effort to read each paper minutely and capture information effectively



Problem Statement

- Extracting relevant information, summarizing complex papers, and finding answers quickly are time-consuming and challenging tasks.
- Existing tools lack the sophistication to deeply comprehend technical content and provide accurate summaries and answers.




Solution

- Comprehensive summarization: To learn more about the idea and the methodologies described in the paper
- Question-Answering: To obtain specific information on the key terminologies, experiments and results of the research presented



Tech Stack

Our solution is an AI research assistant that leverages cutting-edge technologies

- Clarifai: For using various AI models.
 - Llama: To enhance language understanding and comprehension, enabling Q&A.
 - OpenAI GPT: For summarization.
 - Cohere: Text embeddings that represent complex research concepts.
 - Chroma DB: For storing the text embeddings and retrieving similar concepts.
 - Layout Parser: To extract structured content from documents.
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Benefits

- Quicker Results: What would have otherwise taken a day to understand, will now take a few minutes
- Ease of understanding: Make it easy for researchers to make sense of the language and terminology
- Affordability: Costs much less than existing methods



Thank you!

“Coding is our passion, Coding is our life” ~ Douglas

