

## **Problem Statement: Ai Research Assistant.**

### **Description:**

Build a web application that helps researchers quickly extract insights from academic papers by leveraging AI to generate summaries and visual representations of key findings.

### **Expected Solution:**

#### **PDF Input & Processing**

- Simple drag-and-drop or file upload interface
- Text extraction from uploaded PDFs
- Basic section identification (abstract, introduction, methods, results, conclusion)

#### **Intelligent Chat Interface**

- Conversational UI as the primary interaction method
- Context-aware AI responses grounded in the paper's content
- Support for natural language questions about any aspect of the paper

#### **User Experience**

- Clean, minimal interface focused on the conversation
- History of previous questions and answers
- Option to highlight relevant sections in the original PDF when referenced