

The background of the slide is a close-up photograph of a person's hands holding a smartphone. The image is heavily color-graded with shades of blue and red. A large, solid black rectangular box is centered over the image, containing the text 'Welcome to the Future of Teaching Assistants!' in a white, monospaced, typewriter-style font. The text is arranged in two lines. The overall aesthetic is modern and tech-oriented, with decorative horizontal and vertical bars in various colors (blue, red, green, yellow, pink) framing the central text area.

Welcome to the Future of  
Teaching Assistants!

# The Process

Query Reception



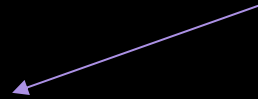
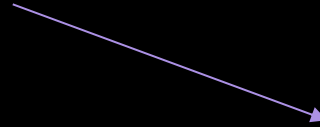
Data Processing



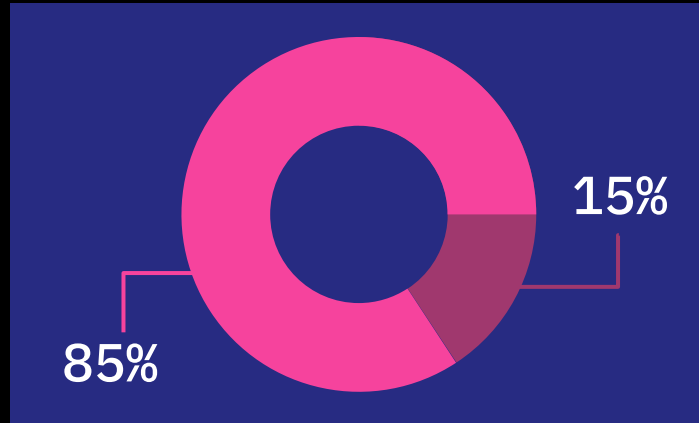
Information Retrieval



Response Formulation

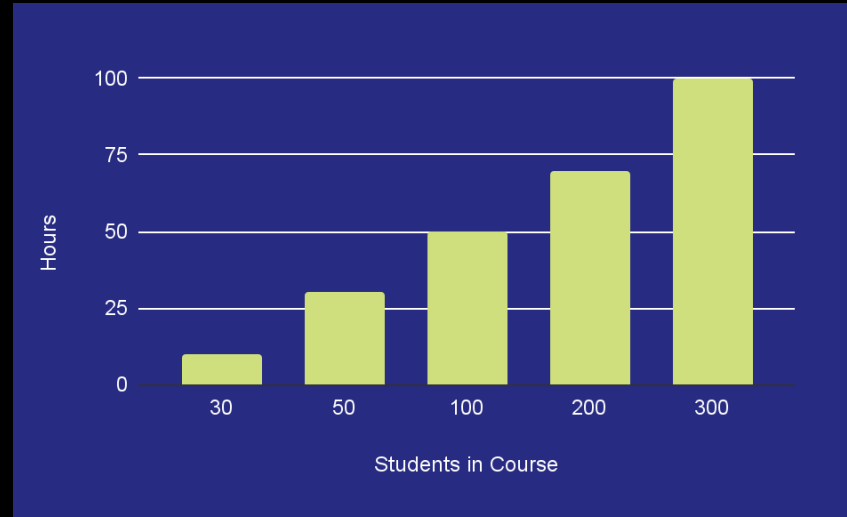


# The Problem



■ Answered ■ Unanswered

Questions answered vs unanswered.



Average response rates per course size

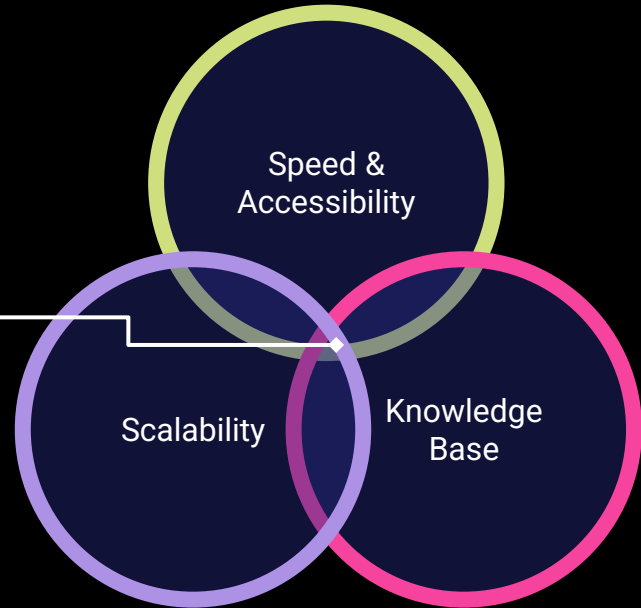
# Why is it better than TAs?

**Availability** 24/7 Accessibility

**Broad knowledge base** across multiple platforms

**Scalability** Infinite Scalability

Sweet spot



# Piazza Support



## Course Questions

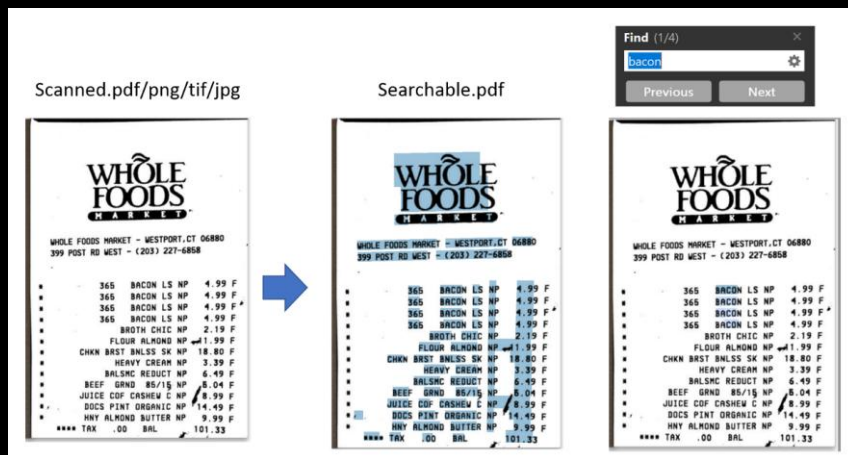
- When is the final quiz?
- How long is the presentation?
- Who is our TA?



## Homework Questions

- How many rows is our task1 output file?
- How many hash functions should I make?
- What should I name the python file?

# PDF and Image Support



OCR support + PDF Parser

# YouTube Timestamp Support

**Settings**

☐ Show Related Images

☐ Show Related Videos

**Upload your PDF documents**

Click on 'Process' after uploading

Drag and drop files here

Limit 200MB per file • PDF

Browse files

**Enter your Piazza Class Network ID (Optional)**

Network ID (e.g. Ir7e73kounllq):

The screenshot shows the Electronic TA web application. On the left is a settings sidebar with options to show related images and videos, a PDF upload section with a 'Browse files' button, and a field for a Piazza Class Network ID. The main content area on the right is titled 'Electronic TA' and includes a 'Map Reduce explanation' section with a user icon, a brief description of the MapReduce process, a numbered list of steps (Map task, Reduce task), and a 'Related images' section at the bottom featuring a diagram of a network topology.

Uses GPT 3.5 Turbo for speedy caption processing to output the exact timestamp to the answer.

# Our Chatbot vs Others

Features	Piazza	YouTube Integration	StackOverflow	PDF Upload
Our Chatbot	Present	Present	Present	Present
MS Copilot	None	None	None	Present
ChatGPT 3.5	None	None	None	None
Google Bard	None	None	None	None

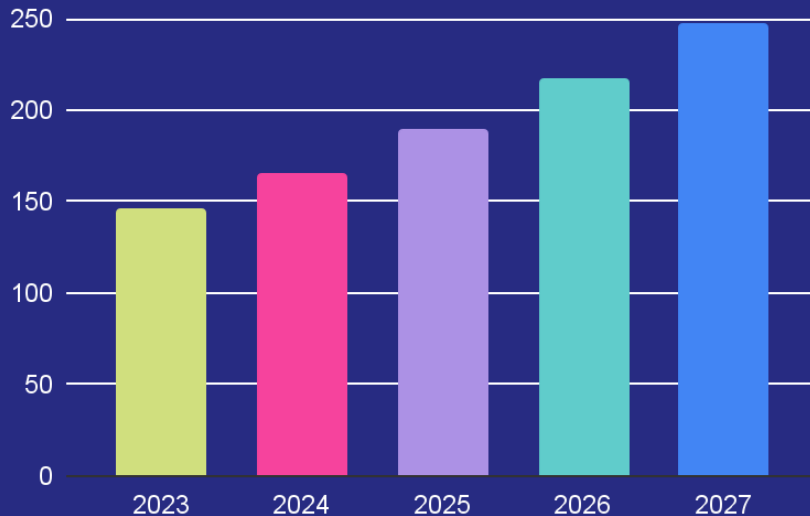


# Legal Concerns



# Market Size

Global EdTech Market (\$ billion)



Projected to grow by almost \$100 billion over the next 5 years.

Compound Annual Growth Rate of 14.2% during the forecast period.

\* Resource: [finance.yahoo.com](https://finance.yahoo.com)

# Future Enhancements

