

Cogniti-m

*Humans and AI:
Collaborating for Success*

PROJECT NAME:

Cogniti-m

PRESENTED BY:

Fourth of Nature

PRESENTED TO:

Microsoft & Junyi Cai

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Fourth of
Nature

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Preparing graduates for a new working reality.

To work effectively with agents, **all employees will need to adopt a thought partner mindset** and build related skills: **learning to iterate with AI, knowing when to delegate to AI.**

(Microsoft, 2025)

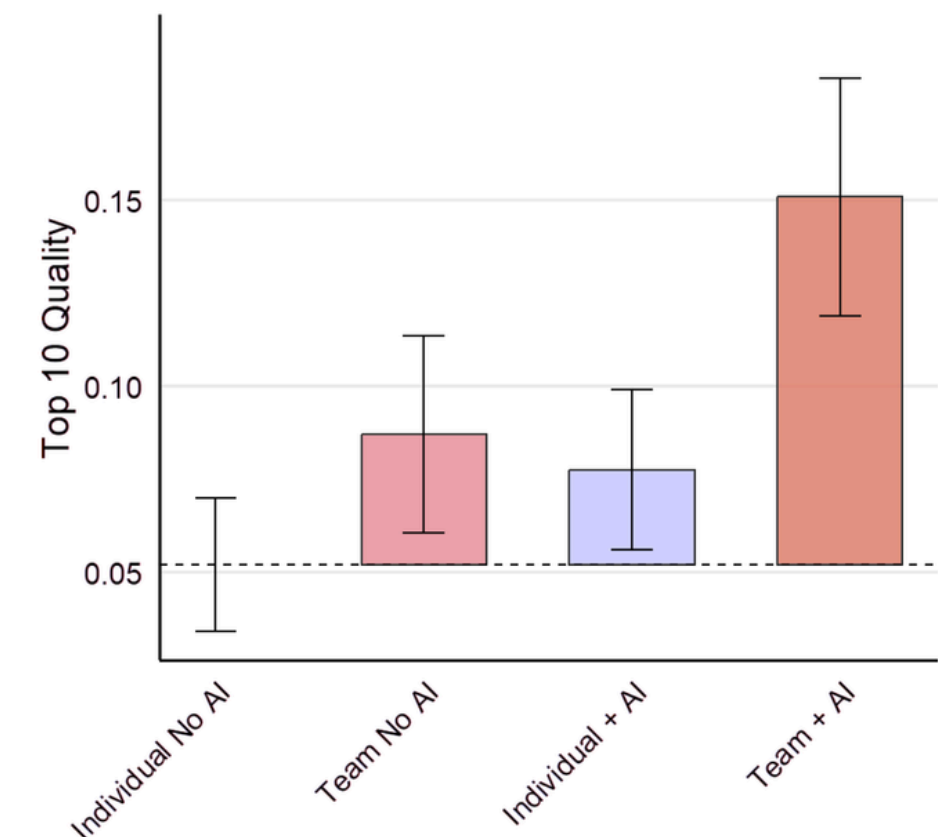
52% see AI as a command-based tool

46% see AI as a thought partner

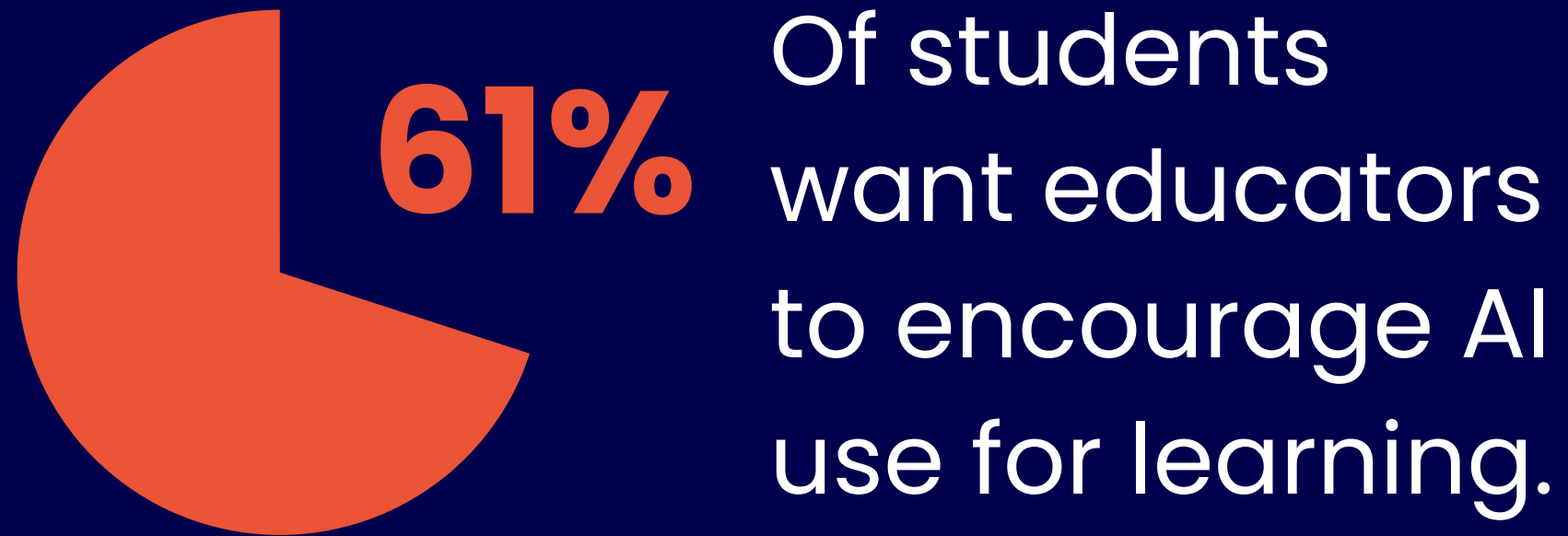
(Microsoft, 2025)

Teams with AI **outperform** others

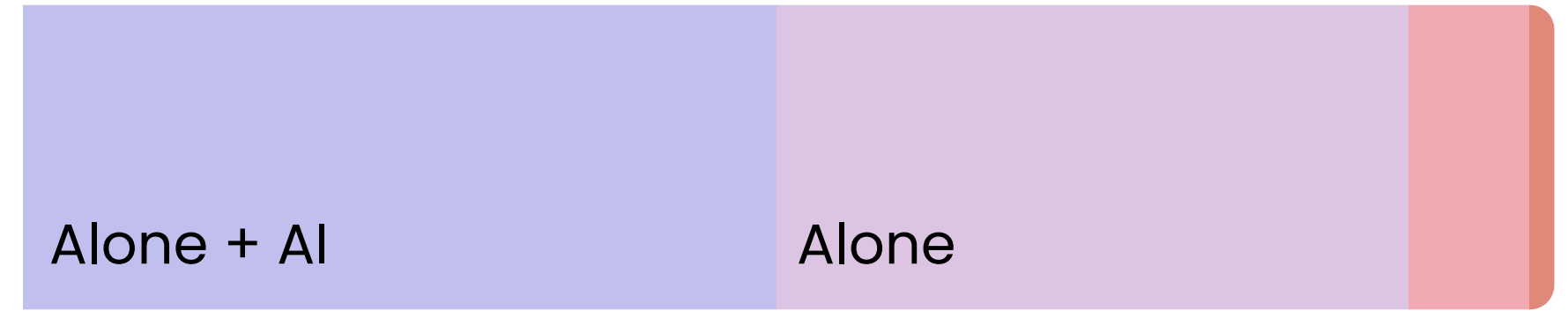
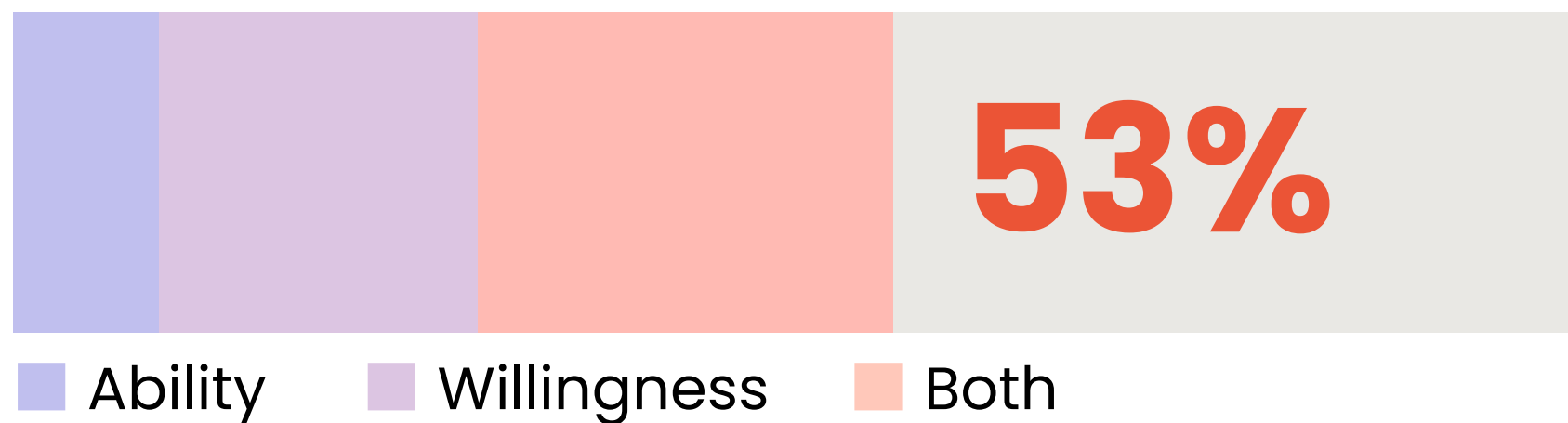
Top 10% Solutions
(Dell'Acqua et al., 2024)



Given the fundamental impact that AI has on student learning experiences, how can USYD encourage responsible collaboration with people and AI, to develop skills of innovative idea generation, thus ensuring graduates enter the workforce as successful leaders. ”



Students feel like AI is limiting their ability or willingness to come up with ideas.



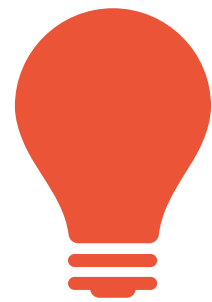
90% Of students find themselves most often studying alone.

“ I have noticed a change in the nature of [collaboration]. Some students are now more inclined to work individually with AI rather than seeking help from peers. ”

(Macneil, 2025)

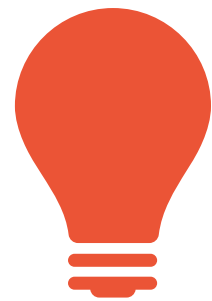
**8 out
of 9**

USYD lecturers encourage AI usage in classrooms and/or through assessments



AI “as a collaborator and a partner” where students “explore AI tools” as part of their learning process

(Liu, 2025; Macneil, 2025)



To “prepare students for a future career” where they “work with AI in a more sustainable and productive way”

(Stott, 2025; Cosgrove 2025)

An AI agent integrated into group conversations for collaboration and idea generation.



- Extension of Cogniti embedded into the groups tab on Canvas
- AI agent can be tagged/prompted within group conversations, drawing on previous conversational data
- **One AI agent with outputs that all group members can view and respond to**

Applications:

Group Projects

Activities

The screenshot shows a Microsoft Teams interface. On the left is a navigation sidebar with icons for Home, Account, Help, Dashboard, Courses, Groups, Calendar, Inbox, History, Studio, Student Portal, and Support. The main area displays a group chat for 'Cogniti-M' with 6 students. The chat history includes:

- User 1: "Idk, I kinda prefer that idea, tbh." (12:41)
- User 2: "What makes you say that I lowkey forgot that one even existed." (12:41)
- User 1: "Well idk, it just felt a bit more unique I feel like our current idea already exists." (12:41)
- User 1: "True well let's get Cogniti to organise these and rank our ideas" (12:41)
- User 1: "@Cogniti what have been our best ideas so far?" (12:41)
- AI Assistant (Cogniti-m): "Good question, well there is no such thing as the best idea, however, I can rank them based on feasibility. Would you like me to do this?" (12:41)

At the bottom, there are avatars for Max, Gabby, Isak, Chantel, Angela, and Rachel, and a text input field labeled "Type a message".

Cogniti-m

This is a zoomed-in view of the chat interface. It shows the same sequence of messages as the first screenshot, but with a focus on the AI's response. The AI's message is highlighted in a light orange background. The chat header shows the group name 'Cogniti-m' and 'Group - 4'. The avatars and input field at the bottom are also visible.

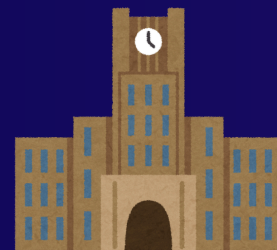
AI + People

Students



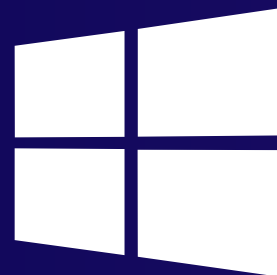
- > Enhance group work
- > Team collaboration practice
- > Encourages critical thinking & idea generation
- > Preparation for an AI-integrated workforce

Educators



- > Redirect students to Cogniti to access credible resources
- > Understand type of content asked to AI
- > Translate learning outcomes to graduate qualities

Microsoft



- > Receive competent & innovative graduates
- > Graduates are prepared with AI-literate skills

Implementation

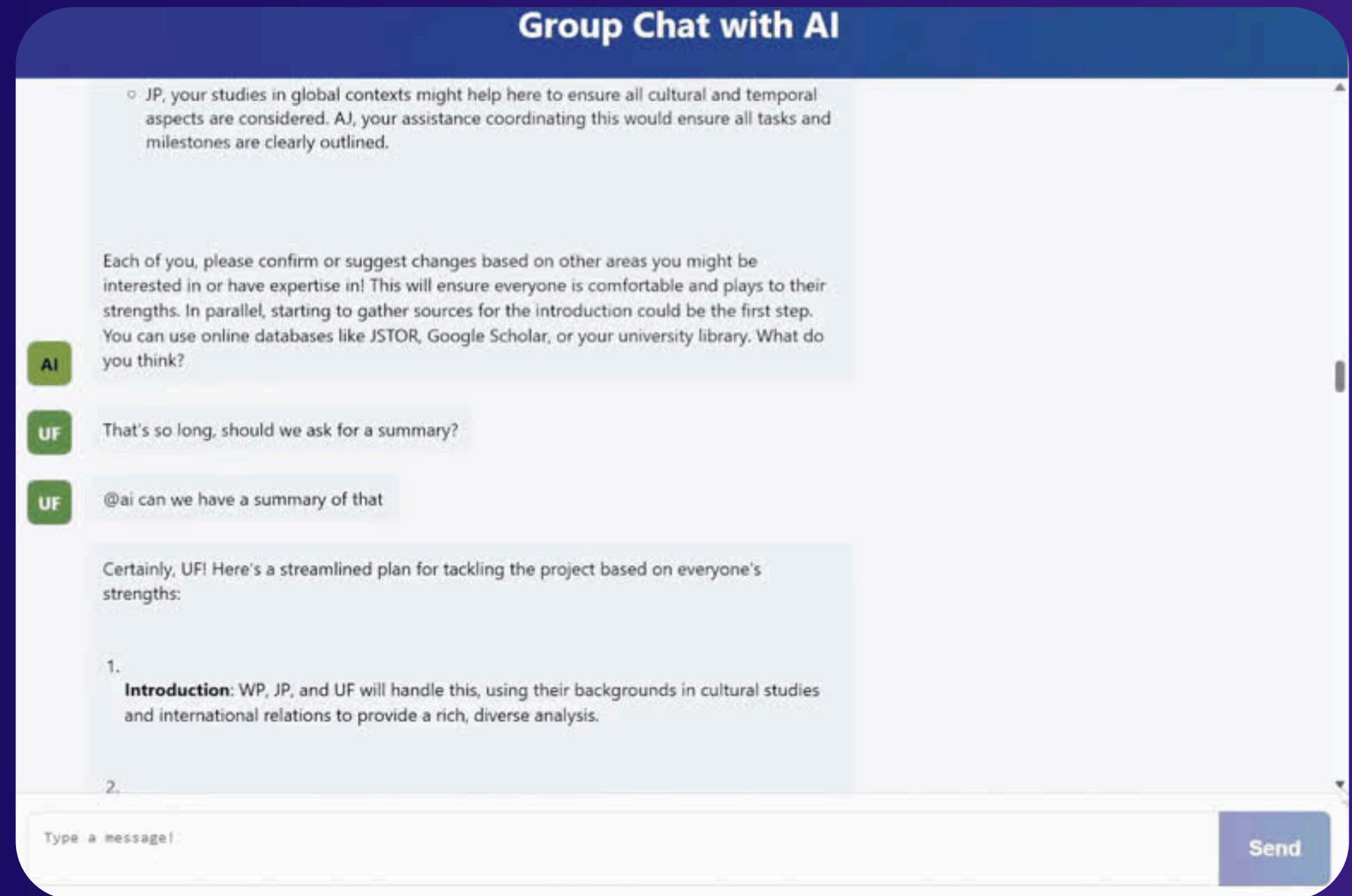
Embedded in Canvas making it easily accessible to students and lecturers. We are predicting similar barriers of adoption as the existing Cogniti agent.

Social

Transforms AI from something used mostly alone to a collaborative experience, boosting AI and social proficiency with extensions to the future workforce

Technical

According to our research and the existing Cogniti architecture, we predict it will be relatively affordable to create and implement.



Pilot Test Cost

\$0.28 with GPT 4 Turbo | <\$0.01 with GPT 4 nano

Education Innovation and Cogniti team develop the Cogniti-m extension



Cogniti-m is successfully implemented across final year group work projects



Roll out Cogniti-m to other year groups with a focus on implementation in group work



After trial period (sem 1) gather student feedback, evaluate what can be improved or changed

Trialing with final
year students

Digital
Inequality

Privacy

Anonymous
queries

Contextual
access

Student
Adoption

Integration
within learning
system

Academic
personalisation

Q & A



Web App Pilot

Microsoft. (2025). *Work Trend Index Annual Report 2025: The Year the Frontier Firm Is Born*. From <https://www.microsoft.com/en-us/worklab/work-trend-index/2025-the-year-the-frontier-firm-is-born>

Dell'Acqua, F., Ayoubi, C., Lifshitz, H., Sadun, R., Mollick, E., Mollick, L., ... & Lakhani, K. (2025). *The cybernetic teammate: a field experiment on generative AI reshaping teamwork and expertise* (No. w33641). National Bureau of Economic Research.

Pilot Web App created based on:

- Aply. (2025). *Building a realtime chat app with Next.js and Vercel*. From <https://ably.com/blog/realtime-chat-app-nextjs-vercel>
- Kiss, S. (2023). *Group chat app with OpenAI's GPT*. From <https://ably.com/blog/group-chat>
- Help from ChatGPT

Group Chat with AI

modeling.

3. **Approach:** JM will cover the technical modeling aspects, while WP will look into the impact of digital media on public awareness of climate change.
4. **Group Profile:** Drafted by JA and UF, describing each group member's role based on their strengths and how these contribute to the project.
5. **Expected Outcomes/Deliverables:** You, DN, along with WP, are tasked with outlining what insights the project aims to provide, focusing on the interaction between digital media and public engagement in climate change.

Initial Schedule for Next Week:

- A kickoff meeting on Monday to finalize details and start researching.
- Throughout the week, each subgroup starts on their assigned sections with aim to compile an initial draft by Friday for group review.

Your immediate task with WP is to think about how the chosen methodologies and approaches will lead to certain insights or developments in understanding or addressing climate change, specifically through the lens of digital communication.

Does this bring you up to speed? Let me know if there's any specific part you'd like more detail on or any other way I can assist!

AI

Type a message!

Send