

Exploring Artificial Intelligence in Occupational Therapy Education: Considerations and Challenges

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Objectives



- Analyze considerations and challenges for artificial intelligence (AI) implications in occupational therapy education
- Understand user experiences and perceptions regarding the effectiveness, benefits, and challenges of using AI in occupational therapy education.



What is Artificial Intelligence (AI)?

Machines or software
mimicking human intelligence



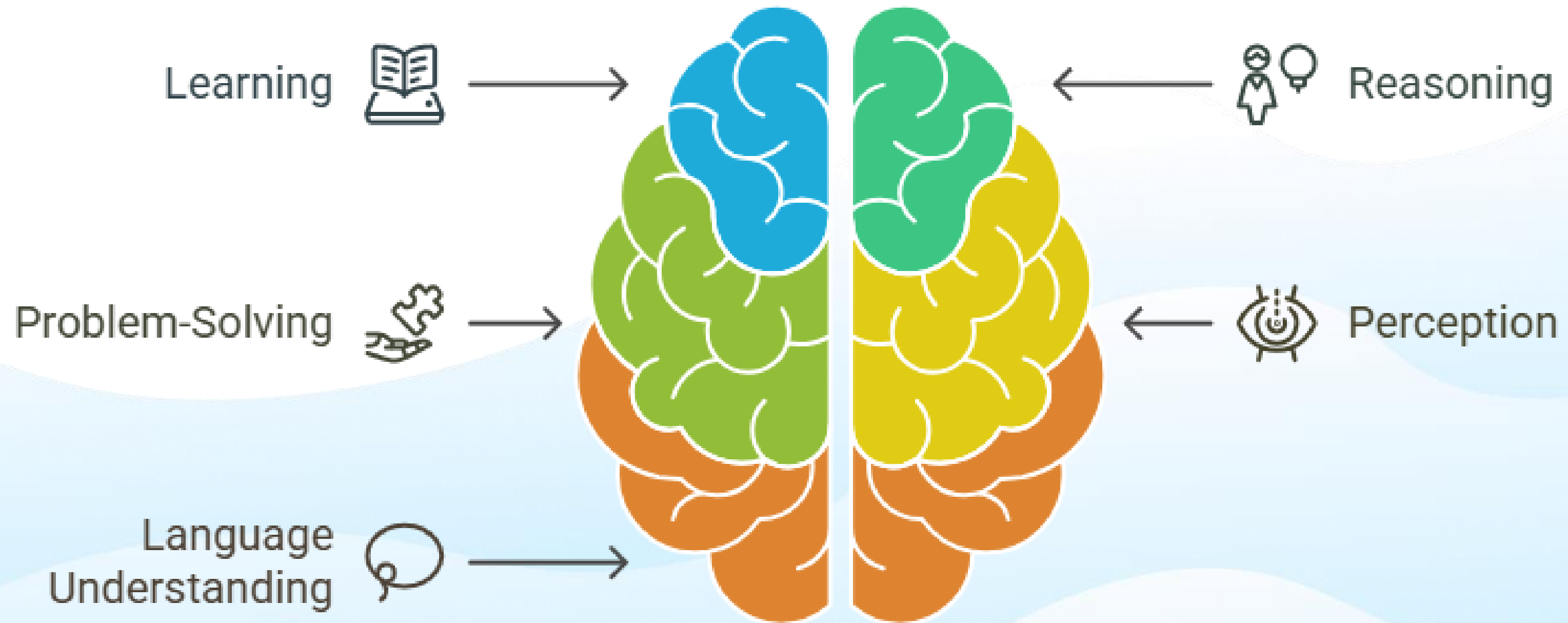
Applications

Education

Healthcare

Communication

Components of AI



AI Fundamentals

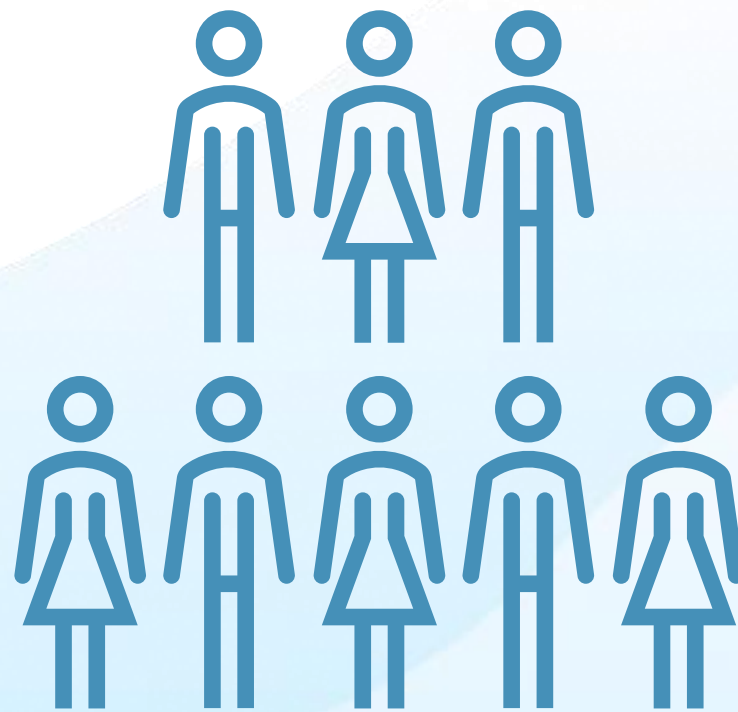
Ensure Authenticity

Address Bias

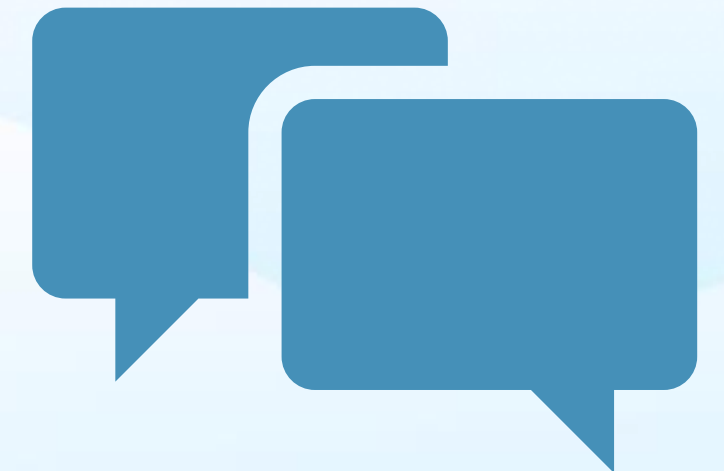
Enhance Communication



Authenticity



Bias



Communication



AI in Professional Practice

- **Uses**

- Personalized care
- Professional support

- **Benefits**

- Improved workflow
- Targeted interventions

Emerging Technologies in Healthcare



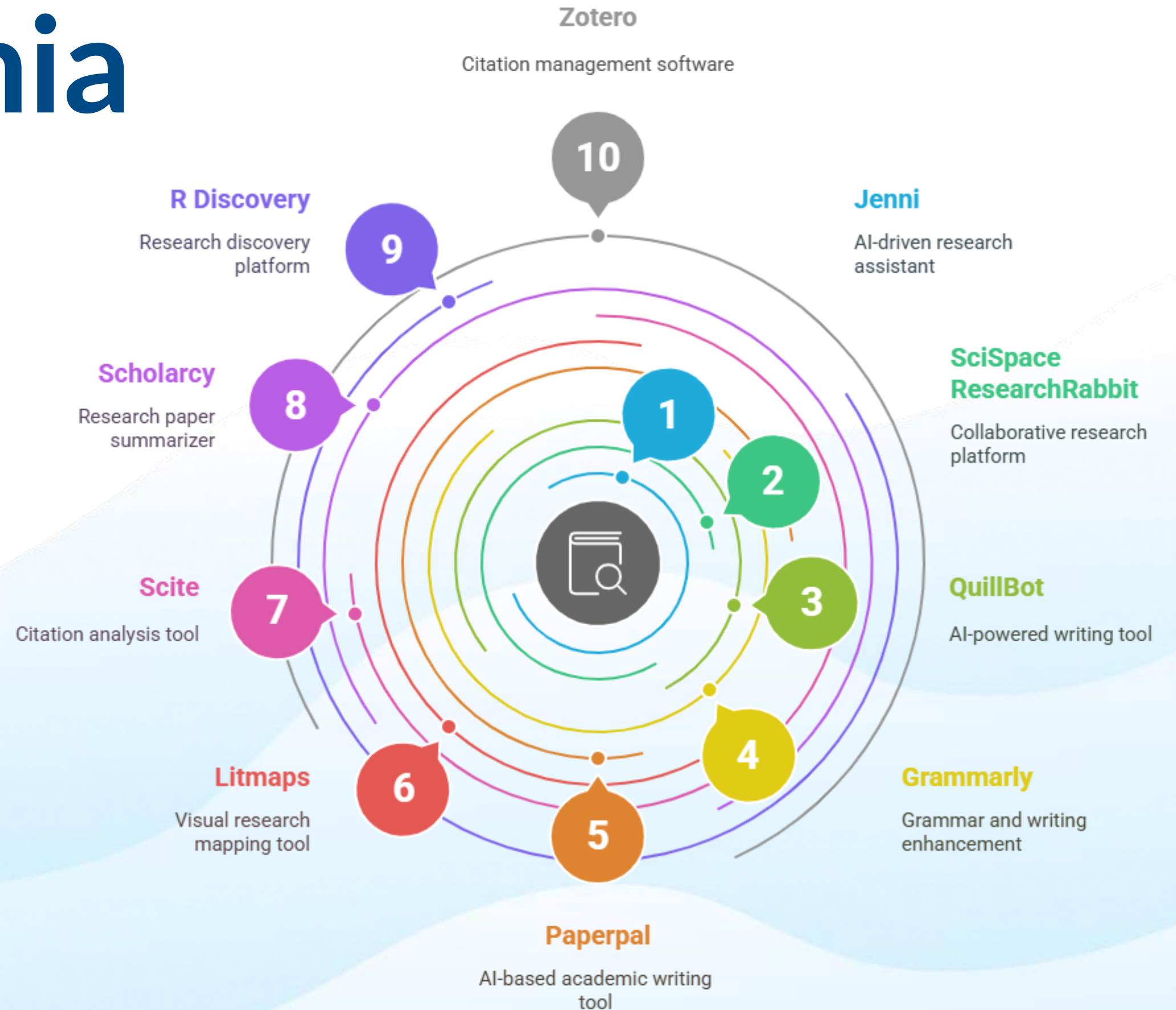
AI in Academia

- **Uses**

- Course development
- Education & research

- **Benefits**

- Student support
- Instructor efficiency





Pitfalls: AI and OT Education

- Academic Integrity
- Loss of Deep Learning
- Bias in Content Generation



Possibilities: AI and OT Education

- Personalized Learning
- Instructional Design Support
- Prompt Engineering (skill)
- Enhanced Accessibility

The Ethical Landscape & Key Considerations

Core Ethics

- Cultural Responsiveness
- Privacy Protections

Critical Challenges

- Authenticity (Verifying sources)
- Bias (Data gaps)
- Localization (Relevance)

Key Directive: Ensure ethical, localized application of AI tools.

OT Capstone Navigator

- Dr. Douglene Jackson
- Dr. Vincent Wiggins



OT Capstone Navigator



- (1) Assess AI's impact on idea development and how AI tool can aid students in refining and structuring capstone topics;
- (2) Evaluate student confidence in AI use by analyzing changes in students' perceptions, comfort, and ability to use AI for academic purposes; and
- (3) Understand user experiences and perceptions regarding the effectiveness, benefits, and challenges of using AI in the capstone process.

Scholarship of Teaching and Learning:

AOTA 2025 Cohort

- (1) Pedagogical value and practical implications of integrating AI tools into Occupational Therapy education
- (2) Reflective teaching practices to support capstone development using AI; and
- (3) Feasibility of AI integration into learning through evidence-informed educational innovations

OT Capstone Navigator: Overview



OT Capstone Navigator

By Douglene Jackson &

Guides OT/OTA students from capstone brainstorming to capstone idea.

Help me
brainstorm my
OT capstone idea

I need help
identifying a
frame of reference

How can I align
my project with
ACOTE standards?

Suggest a title
for my OT
capstone project



OT Capstone Navigator

By Douglene Jackson &

Guides OT/OTA students from capstone brainstorming to capstone idea.

Education

Category

10+

Conversations

Conversation Starters

Help me brainstorm my OT capstone idea

I need help identifying a frame of reference

How can I align my project with A COTE standards?

Suggest a title for my OT capstone project

Capabilities

- ✓ Web Search
- ✓ Canvas
- ✓ 4o Image Generation

OT Capstone Navigator

OT Capstone Navigator



Create

Configure

Name

OT Capstone Navigator

Description

Guides OT/OTA students from capstone brainstorming to capstone idea.

Instructions

This GPT is designed to support occupational therapy (OT) and occupational therapy assistant (OTA) students in developing their capstone projects. Developed by Dr. Douglene Jackson, OT Capstone Navigator serves as a coach and thought partner, guiding students through a structured "21 Questions" process to brainstorm and refine their capstone idea. This process follows 9 core steps with a 10th optional step for further refinement, ensuring alignment with the 2023 ACOTE standards.

At the start of each session, OT Capstone Navigator provides a warm, professional introduction to let students know it is here to help them

Conversations with your GPT can potentially include part or all of the instructions provided.

Conversation starters

Help me brainstorm my OT capstone idea

×

I need help identifying a frame of reference

×

How can I align my project with ACOTE standards?

×

Suggest a title for my OT capstone project

×


×

Knowledge

Conversations with your GPT can potentially reveal part or all of the files uploaded.



Upload files

Recommended Model 

ACOTE Capstone Areas

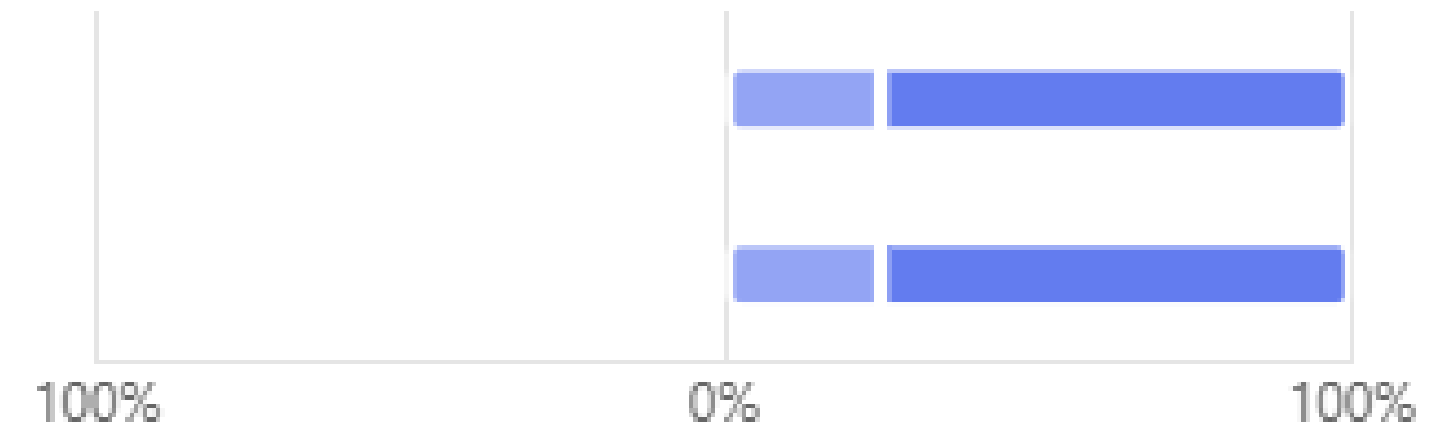


Use of AI Tools

● Not at all useful (1) ● Somewhat useful (2) ● Neutral (3) ● Very useful (4) ● Extremely useful (5)

Overall, how useful was the AI capstone tool?

How useful was the AI capstone tool in helping you generate or refine your capstone idea?



OT Capstone Navigator: Value

OT Capstone Navigator: Perspectives

Was easy to use, very specific, helped me generate and refine capstone idea.

I liked how it laid everything out step by step it made it easy to follow and less confusing



The design reflects a thoughtful blend of innovation, accessibility, and user-centered care.

It was great at refining my idea. It also was helpful that even if you did not know an answer the its question, it could still help you.

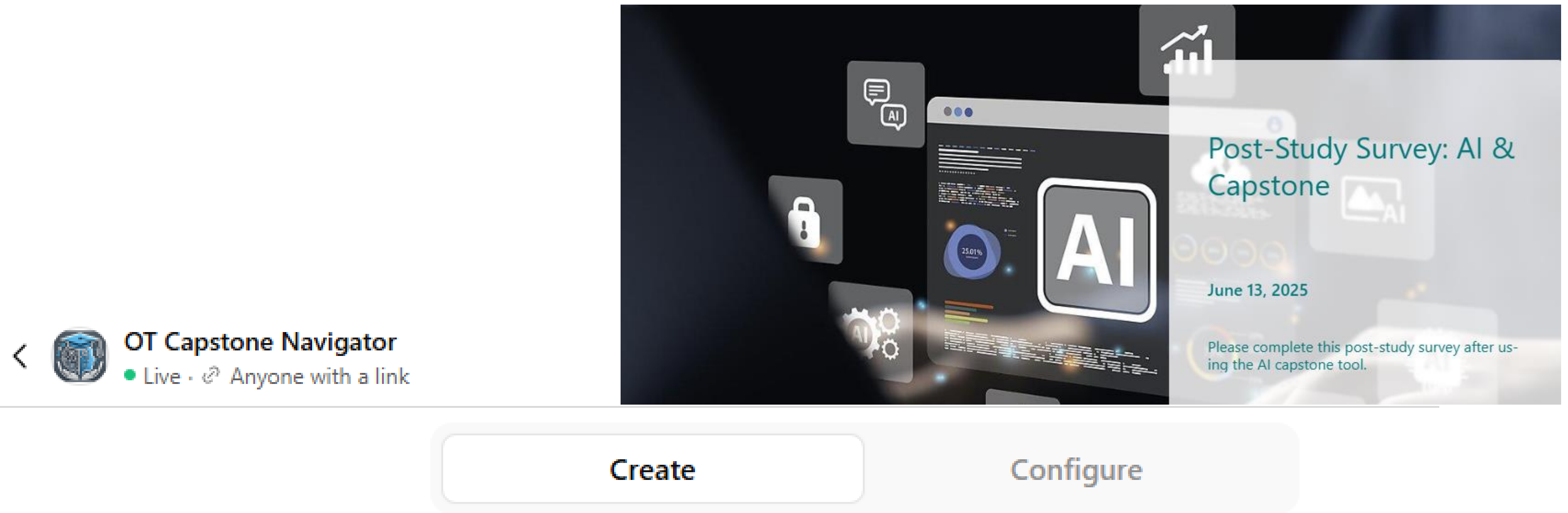
OT Capstone Navigator: Recommendation

What AI tools would you recommend to others to help generate or refine their capstone idea?

4 Responses

ID ↑	Name	Responses
1	anonymous	I would recommend this AI tool, the OT Capstone Navigator.
2	anonymous	OT capstone navigator
3	anonymous	I would say Chat GPT, but make sure there is enough information on their idea because AI can make mistakes
4	anonymous	The OT Capstone Navigator

OT Capstone Navigator: Next Steps



Welcome back! Is there anything OT Capstone Navigator should be doing better?
Anything you'd like to change?



Conclusion: AI and OT Education

- AI is inherent in everyday life and professional practice
- Educators should support student learning of ethical use of AI in practice

Questions & Feedback



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Thank you!

