Cory Dal Ponte 11/08/2023

# Reflections on using ChatGPT to explore your understanding (Melbourne Health)

Respond to the three reflection prompts below. Please paste your ChatGPT chat history link in the first column.

## How did using ChatGPT influence your learning of digital health concepts?

It provides my with very comprehensive response and feedback. Comparing with the feedback that I got with my subject tutor, GPT goes into quite a lot of details and provide me with some good suggestions.

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It provided me with more examples of how digital health can improve patient health outcomes. Many of the methods it suggested I did not think about (eg. patient monitoring and data logs) which could be key in allowign physicians to track their patient's progress in a more timely manner to identify any changes that need to be made quickly.

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## How do you plan on using genAI to support your learning going forward?

- Explaining difficult concepts in a simple way
- Generating questions for practise

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I'll use it for revision purposes. Example would be if I have trouble to answer a practice exam question, I will use GPT to help me with that and ask it to provide me with some follow-up or extension questions to expand upon what I have learned

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- generate questions for learning and practice questions
- providing frameworks for complex overarching pathologies and processes
- brainstorming and idea generation

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To test my understanding of concepts, as a starting point when researching topics if i'm not sure where to begin

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At this stage, it seems like AI can be a useful aid in learning but its limitations should be acknowledged. As in this exercise, it can be a useful for consolidating knowledge and exploring ideas and areas of content. It can be useful in the same way that a study group can be useful. However, it should not be used as a primary resource or even a reference resource. At least at this stage of its development, it can not be trusted with correct information all the time. Instead, it can serve as another arm in the tools for revising and practising medical knowledge.

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- Creating succinct flashcards
- Generate practice exam questions
- Generate helpful mnemonics for remembering complex concepts

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- Brainstorming
- Setting up a framework
- Gain basic understanding on topics
- Receive feedback and areas of improvement

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- Using it as a revision tool - asking it to assess my level of understanding of various medical concepts (ie. generating practice questions, answering them and then receiving feedback to gauge my understanding)
- Using it to understand concepts presented in lectures - asking it to explain it at a beginner-intermediate-expert level so that I can understand it in depth myself, but also know how to articulate it in simpler terms when needed (I would then use the key terms to conduct further research to fact check this info)
- Asking for summaries of key concepts
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When I learn a new concept or am trying to intergrade the new knowledge into my existing understanding I usually have lots of questions. Chatgpt allows me to asks as many questions as needed to be able to use my new knowledge

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I plan to use it to generate questions, facilitate teaching complex topics, integrate information, and provide actionable feedback.

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- When introduced to new concepts and
  topics, I may use generative AI as a baseline
  entry-point to allow me to get a grasp on
  the topic and understand proper avenues
  to explore to deepen my understanding
- Using generative AI to produce practice
  questions and test my understanding of
  key topics could allow for a
  multifaceted learning approach as well
- When permitted in assignments, I may turn
  to generative AI to produce an outline or give
  me some examples of interesting directions
  to go with a topic, backed by research

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- Summarisation
- Generating practice questions
- Pseudo-serach engine
- Checking logic and syntax
- Providing frameworks
- Coding applications
- Planning and management applications

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- Generating more questions to challenge my
  learning and understanding of difficult concepts
- Asking for feedback for how my responses
  seem - but not fully relying on these evaluations
- Helping me consolidate 'big picture'
  ideas since this does summarise
  large sets of information well

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**Keywords**
Asking about complex topics to get
keywords to use for further research

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- tool to kick start research topic to right direction
- brainstorming
- clarification on confusing topics
- practice question bank

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- Teaching a difficult concept in
  a more comprehendible way
- Creating summaries of large volumes of text

- Generating practice exam
  questions and patient scenarios

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- Summarise complex systems/diseases/concepts
- ask practice questions or
  provide example patients
- ask questions about specific concepts that I
  am confused about within complex concepts
- get referrals to other sources
  that could explain concepts

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generate practice questions.
getting an overview of a particular
disease before doing further research.

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- Coming up with differential diagnoses for a
  particular case study / clinical presentation
- Generating practice questions
  and mnemonics, as a study tool
- Creating summaries of research
  papers for greater accessibility
  and efficiency while doing research

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- Integrating chat GPT strengths in
  idear formations for investigation
  tools for niche conditions
- Summarising cases/discharges
- Case study questions

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it provides a simplified entry into complex
topics or areas so that I can research the ideas
it generates further to enhance my learning

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Brainstorming and idea generations, espcially for
generating mnemonics to aid learning and memory work

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**GenAI uses**
- Organization and time management

- Interactive note revision with feedback (and spaced repetition)
- Translates information into accessible mediums (eg. turning notes into podcasts or audio files, generating diagrams, etc)

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Gaining an overview of the technological challenges present in healthcare today, enabling me to research aspects I would like to

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- Summarisation of complex cases, paragraphs.
- Re-wording of complex concepts.
- Generation of practice questions.

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- Brainstorming
- Crafting simulated px scenarios
- Google alternative
- Mindmapping
- Summarisation

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## What suggestions do you have to improve the activity using ChatGPT, if any?

Key things is to avoid using it with the actual assignment or exam. Is ok to use it as a part of my practice and learning process as well as to answer some of my questions or get some help with a question that I am struggling with.

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I think it would be valuable to add an activity where we reflect and discuss what we learned from ChatGPT with a healthcare professional at our clinical school during our placements

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Maybe add and activity where the student can ask ChatGPT about a specific topic and the patient has to identify references which support ChatGPT's response, or otherwise prove them to be incorrect; otherwise the activity can involved asking ChatGPT to include one or two incorrect facts in its response regarding the topic and the student has to identify the incorrect 'fact'. This will highlight the importance of fact-checking what is generated by ChatGPT.

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Ask ChatGPT to provide references or examples.
Check these references for reliability of information.

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- Ensuring rigorous updates and assessment
  of whether the information stored on
  ChatGPT is accurate and up-to-date

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**Future Directions**
I think an important future consideration is to ensure
that the data provided to the AI platforms (to train off
of) are held to a high level of academic and clinical rigor,
such that the information is accurate and unbiased.

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A suggestion I would have for improving the activity
could be providing some key learning areas within digital
health, as digital health on it's own is multifaceted and
allows for the learning AI to go in multiple directions.
Essentially, some focus regarding some important topics
to learn within digital health could have improved the
learning experience, although it was an interesting
method of learning!

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ChatGPT is unsuited for application in health
directly at the moment, hopefully in the future
someone will piggyback using OpenAI's design
philosophy and construct a similar platform,
but trained on health-specific information

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**Ensure information given by ChatGPT are from
highly reputable and peer reviewed sources**

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- Updating OpenAI's NLP training data to reflect
  the latest available information (perhaps by
  integrating a real-time update mechanism) into
  ChatGPT to ensure the most recent and accurate
  information is available - aligning the tool with
  the dynamic and protean nature of healthcare

# Paste your chat link here

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ChatGPT ⬤

Openai 🔗

ChatGPT

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chat.openai.com 🔗

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🔗 https://chat.openai.com/share/409a920a-41e3-4586-bafc-89c548320efa

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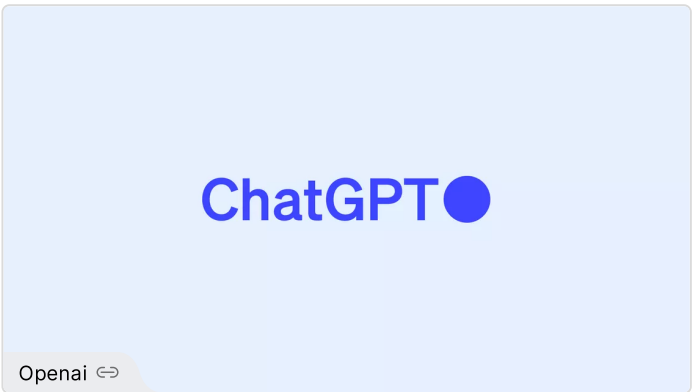🔗 https://chat.openai.com/share/1b50a373-4347-4e15-9ea1-688d09ad782d

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**ChatGPT history**

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