## **COIS 3270H**

# AI Summary Critique 2

## Fall 2024

Dikshith Reddy Macherla

Student Id: 0789055

Bachelor Of Computer Science, Trent University

COIS 3270H - Philosophy Of AI

Professor: Michael Bruder

07th October, 2024

### AI Summary Critique of "Computing Machinery and Intelligence"

The AI-generated summary of Alan Turing's 1950 article, "Computing Machinery and Intelligence," offers a succinct overview, but I noticed some notable gaps in accuracy and completeness that might hinder a deeper understanding, especially for readers unfamiliar with Turing's work. To evaluate the quality of the summary, I felt it was essential to examine its omissions, inaccuracies, and the broader implications of Turing's ideas.

Firstly, while the summary correctly presents the main question of Turing's article, "Can machines think?", it does not adequately define what Turing means by "thinking." Turing deliberately avoids directly defining "thinking" in a conventional sense, instead proposing the "Imitation Game" as a functional replacement for determining intelligence. The summary implies that passing the Turing Test equates to "thinking," but I believe Turing's nuanced position is that this test offers an operational definition of intelligence, sidestepping the philosophical problem of defining thought itself. An explicit explanation of this reasoning would help a reader understand the purpose behind Turing's approach.

The summary also oversimplifies Turing's responses to objections. Turing addressed nine specific arguments, known as "The Nine Objections," ranging from theological objections to the argument from consciousness. The AI summary broadly mentions that Turing anticipated objections regarding rule-following and creativity but neglects to mention significant details, such as Lady Lovelace's objection—that machines can only do what they are programmed to do—and Turing's rebuttal, which emphasises that machines may eventually surprise us. Including an explanation of the various objections and Turing's responses would, in my opinion, significantly enhance the summary's completeness and accuracy.

Moreover, the summary lightly touches on Turing's exploration of learning, but I think it should be clarified that Turing explicitly discusses "machine learning" decades before it became a recognized field. He speculated on creating machines that could adapt and improve, suggesting methods akin to what we now

recognize as neural networks. This forward-looking vision should be highlighted to illustrate the breadth of Turing's contributions to modern AI.

To understand Turing's significance in the study of AI, I find it critical to consider the revolutionary nature of his approach. Turing moved away from abstract philosophical debates to propose a concrete, testable method to explore machine intelligence. His emphasis on empirical evaluation forms the basis of modern AI research methodologies. This pragmatic approach—framing intelligence in terms of observable behaviour—marks a foundational shift in both computer science and cognitive science. By framing the summary in this broader context, I think the reader could better appreciate why Turing's article is still influential today, laying the groundwork for subsequent advancements in AI, machine learning, and even discussions on consciousness and ethics in machines.

In summary, while the AI-generated summary captures the essence of Turing's article, I feel it falls short in providing the depth and context required for a comprehensive understanding of Turing's ideas. A more detailed examination of the Turing Test, the range of objections addressed, and the broader implications of Turing's vision would, in my view, enrich the summary, offering a more complete picture of his foundational work in artificial intelligence.

#### **References:**

Turing, A. M. (1950). Computing Machinery and Intelligence. Mind, 59(236), 433-460.