

The Effect of Artificial Intelligent on Education

Problem Statement:

Generative AI recently improved exponentially; it has been used in all domains. One of these domains is education, which will enhance education when used optimally.

However, there are some issues with using generative AI by students. Bias is one of these issues, as ChatGPT for example needs to train on a large amount of data to generate a better result, these data can produce biased content (Sukhpal et al., 2024).

In addition to bias on generative AI, the content produced from unpermitted use of copyrighted material, violates its copyright, as highlighted by Emma (2025).

Students can use generative AI in assessments or exams, which makes it challenging to detect whether students use AI or not (Benjamin & Lucas, 2024).

This research aims to focus on these problems, examine the existing solutions, and define the strengths and weaknesses of these solutions, and how to enhance them.

Research Objectives

- 1- To analyze the existing challenges in using Generative AI in education
- 2- Determine the limitations of using Generative AI and how to avoid these limitations in case of improving education.

Define the root cause of bias result in Generative AI and the existing solutions.

Explain why generative AI violates the copyrights.

- 3- Validate the existing solutions and define their strengths and weaknesses.

To reduce bias in generative AI content.

To mention the real source of the content and apply citation.

4- Improve the existing solutions by recommending enhancement to the solution.

Clarify how can generative AI tool avoid biased data or how to filter the data before feeding the tool with biased data.

After the generative AI tool gets biased data how can AI differentiate between biased data and unbiased data?

Define clear steps on how generative AI tools can take care of copyrights and apply citations.

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