

Project 1 – Individual Part: GenAI

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General Instructions

- Fill out your name and Solis ID.
- Each member of the team completes this assignment individually.
- All solutions are submitted as a **PDF document** as part of **Project 1**.

Objective

By completing this assignment, students will begin to understand the use of generative artificial intelligence (GenAI) tools in educational contexts, fostering the development of an informed and critical perspective.

1: GenAI Student Guide

Read the GenAI student guide available at https://iticse23-generative-ai.github.io/media/ITiCSE_2023_WG4_Mature_Draft_Jul_9_2023_AppendixD.pdf

2: “So what if ChatGPT wrote it?”

Access the following opinion paper: “So what if ChatGPT wrote it? Multidisciplinary perspectives on opportunities, challenges, and implications of generative conversational AI for research, practice and policy” (available at <https://doi.org/10.1016/j.ijinfomgt.2023.102642>).

1. Read the introduction.
2. Read Table 1 (page 4) and select one contribution from each perspective area (2.1. Broad perspectives on generative AI, 2.2. Organisational and societal impacts, 2.3. Impact on the academic sector, 2.4. Ethical issues, and 2.5. Challenges, opportunities, and research directions).
Contribution 6: ChatGPT as the New Calculator, Contribution 15: Using ChatGPT in Tourism, Travel, Transport and Hospitality Industries, Contribution 25: How Does ChatGPT Benefit or Harm Academic Research?, Contribution 31: Good Bot or Bad Bot? On the Ethics of ChatGPT, Contribution 34: ChatGPT: Challenges and Opportunities
3. Make a small summary (one or two paragraphs) for each of the five selected contributions.

There are advantages and disadvantages to using ChatGPT and calculators in the classroom. Calculators help solve problems and speed up complicated computations, but relying too much on them might prevent the development of fundamental abilities. In the same way, ChatGPT increases task efficiency but needs careful integration to ensure it enhances rather than completely replaces traditional instruction. But unlike calculators, using ChatGPT doesn't need a grasp of its internal workings, which presents special difficulties for research integrity and teaching and might exacerbate problems with disinformation and quality control in scientific publications.

The tourist sector is transforming because of the integration of AI technologies. This allows for improved customer service, trip planning, and marketing tactics. These developments streamline business procedures for travel agencies while meeting the growing need of tourists for detailed, individualized information. Despite its advantages, ChatGPT's widespread use also draws attention to drawbacks, including the need to guarantee data integrity, handle issues related to intellectual property, and reduce the possibility of abuse, such as creating fake reviews.

Although ChatGPT boosts productivity by automating language-related tasks and makes research findings more accessible to the general public, questions about the validity of produced content as well as problems of authorship and responsibility are raised.

Despite its advantages, ethical issues and the possibility of abuse highlight the necessity of strict oversight and constant discourse within the scientific community to manage the intricacies presented by artificial intelligence technology.

Even while its influence is multifaceted, its ethical character is debatable, which emphasizes the necessity for careful consideration rather than a simple classification as "good" or "bad." Authenticity, responsibility, and wider societal effects are among the ethical factors that need for thorough analysis and aggressive regulations to manage both possible advantages and disadvantages. Conducting a thorough ethical assessment of ChatGPT is essential for foreseeing and managing potential repercussions, creating ethically right possibilities, and minimizing unfavorable effects throughout its use.

Though technology offers chances to change how businesses and schools operate, worries about false information, deepfake text, and local law compliance still exist.

Despite its advantages, more research is required to address these issues and guarantee the responsible use of ChatGPT in a variety of industries. This underscores the significance of creating techniques for identifying biases and deepfake text, investigating its uses, and promoting interdisciplinary comprehension. As generative AI systems are used more often, people need to develop a variety of abilities to function well and morally in this changing environment.

3: Self-reflection

Answer the following questions.

1. What advantages do you see in using Artificial Intelligence tools, like ChatGPT, in the learning process? How do you think these tools could improve your educational experience?

Using artificial intelligence technologies in the learning process, such as ChatGPT, can provide several benefits, including customizing learning, automating teacher chores, powering adaptive assessments, and increasing students' creativity and critical thinking. These technologies may enhance your educational experience by allowing you to learn at your speed and level, giving you access to a variety of information and expertise, and creating new and diverse material for you to learn from.

2. Can you identify any disadvantages or limitations in using these Artificial Intelligence tools? Are there situations where you prefer not to use them?

These technologies do have certain drawbacks and limitations, such as a lack of human contact and input, the possibility for bias, inaccuracy, or abuse of AI-generated material, and reliance on data availability and quality, internet connection, and technology. As a result, there are times when I prefer not to use these AI tools, such as when I need to develop my own unique and authentic voice and style or when I encounter complex, ambiguous, or novel problems that require human intuition, judgment, and creativity.

3. How do you think these Artificial Intelligence tools should be responsibly used in an educational context? How can you ensure that you are using these tools ethically (i.e., in a way that respects norms and principles of correct behavior, including honesty, fairness, respect for others, privacy, equity, and integrity)?

You should follow certain guidelines. You should note the origins and limits of AI-generated information but do not portray it as your original work or as the absolute truth. You should verify the correctness and veracity of the AI-generated material rather than relying on it blindly or naively. You must respect the intellectual property and privacy rights of the authors, producers, and owners of the data and material that AI technologies utilize or generate. You should examine the possible effects and repercussions of AI-generated material and avoid using it to injure, mislead, or manipulate others or yourself.

4. What privacy concerns might you have when using Artificial Intelligence tools in learning? How can you protect your personal information while using these tools?

The use of Artificial Intelligence tools in learning can raise several privacy concerns, including the collection, storage, and sharing of your data by the AI tools or their providers, the analysis, inference, and prediction of your data by the AI tools, and the manipulation, alteration, or deletion of your data. You can take several steps to protect your personal information when using AI tools for learning. These include reading and comprehending the terms and conditions, privacy policies, and data usage practices of the AI tools and their providers; limiting and controlling the type and amount of personal information you share with the AI tools; securing your personal information using privacy-enhancing technologies; and exercising your rights to access, correct, delete, or object to the processing of your personal information by the AI tools or their providers.

5. How could you address ethical issues that may arise in using Artificial Intelligence in education? Do you think some guidelines or rules should be established for their use in this context?

The use of artificial intelligence in education may give rise to ethical concerns about data privacy, bias, accountability, transparency, and human dignity. To solve these problems, it's essential to promote critical thinking and ethical reasoning abilities in students, instructors, and other stakeholders, as well as to educate them about the possible advantages and disadvantages of artificial intelligence in the classroom. Furthermore, regulations or guidelines based on the values of sustainability, inclusivity, justice, human rights, and well-being must be developed and adhered to when using AI in education. These norms or principles have to be customized to the unique educational settings and requirements, taking into account the ethical frameworks and regulations for AI that are already in place at the national, regional, and international levels.