PRELIMINARY DRAFTS

Influence of Chat GPT in Education System

An analysis of its impact on learning, teaching and evaluation modality

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ABSTRACT

CCS CONCEPTS

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**KEYWORDS**

Artificial Intelligence, Chatbot, Chat GPT

ACM Reference Format:

1. Background And Problem Domain

In Computer Science during recent years, Artificial Intelligence has been flourishing its performance rapidly in a wider range. The significant research and investment in AI have crafted the technology more applicable that are meant to solve realistic problems. The birth of large language models such as: - Open AI’s GPT (Generative Pre-trained Transformer) and Google’s BERT (Bidirectional Encoder Representations from Transformers) are the stepping stones in the advancement of and the progress of Deep Learning and Natural Language Processing techniques.

**1.1 History of Chatbot**

A Chatbot is a Human Computer Interaction (HCI) based conversational model designed and developed to interact (either voice or text) with humans and other models. [1] This artificial conversational system is known as Chatbot. Alan Mathison Turing (an English Mathematician and Computer Scientist) proposed a paper called “Turing Test” in 1950 which main concept was whether the machine can or cannot think like human? If the evaluator cannot distinguish the conversation between a computer or human then it passes the “Turing Test”. Many considered it was an innovative idea of Chatbot. The first Chatbot was called “ELIZA” designed to simulates the conversation that intended to be a psychotherapist developed in 1966. It operates using pattern matching and response selection scheme based on canned phrases but cannot learn and does not have capability to interpret the user’s input in a thoughtful way. After that “PARRY” in 1972, Chatterbot in 1991 and following “ALICE” in 1995, Smarter Child in 2001 were the prominent name in the history of Chatbot. Later, the next era of Chabot was begun with the virtual personal assistants that includes Amazon’s Alexa, Apple’s Siri, Microsoft’s Cortana and IBM’s Watson.

**1.2 Significance and Chatbot Classification**

**1.3 Evolution of Chat GPT**

**1.4 Research Questions**

1. What will be the social impact, accountability, trustworthiness and ethical consideration using Chat GPT in the field of academic sector?
2. Do the academic institutions have to take it as a tool or a threat or how can they upgrade their teaching modality and evaluation different than Chat GPT?
3. Does it really kill the creativity skills of the students? What should be the limitations on learning methods for student’s edition or how can it be manageable for different audiences in different sector?
4. Do the data or information provide by Chat GPT models are accurate? What are the consequences if the response data are not up to date in the field of Academic libraries?

**1.5 Objectives**