

A STUDY ON IMPACT OF USING CHATGPT BY THE ACADEMICIANS WITH SPECIAL REFERENCE TO COIMBATORE CITY

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ABSTRACT

The rapid advancement of artificial intelligence has significantly transformed the academic landscape, with tools like ChatGPT emerging as influential resources for teaching, research, and knowledge dissemination. This study examines the impact of ChatGPT usage among academicians with special reference to Coimbatore City. The research explores how faculty members integrate ChatGPT into their academic activities, including content creation, research assistance, student engagement, and administrative tasks. Using a structured survey methodology, data were collected from academicians across various higher educational institutions in Coimbatore. The findings indicate that ChatGPT enhances productivity, supports innovative teaching practices, and improves access to information. However, concerns related to academic integrity, over-reliance on AI, and the accuracy of generated content were also identified. The study highlights both the opportunities and challenges associated with the adoption of AI tools in academia and suggests the need for clear guidelines and training programs to ensure responsible usage. Overall, the research provides valuable insights into the evolving role of AI in education and its implications for academicians in a rapidly digitalizing environment.

Keywords: ChatGPT, Artificial Intelligence in Education , Academicians, Higher Education

INTRODUCTION OF THE STUDY

In recent years, the integration of artificial intelligence (AI) technologies into various sectors has witnessed a significant surge. Among these, natural language processing (NLP) models, such as ChatGPT, have gained prominence for their ability to generate human-like text responses. This study aims to investigate the multifaceted impact of ChatGPT usage among academicians, seeking to understand its implications on teaching, research, and overall academic communication. As academia embraces digital transformation, ChatGPT has emerged as a tool that offers real-time assistance, facilitates collaborative learning environments, and potentially transforms the way educators engage with students. The dynamic nature of ChatGPT allows for adaptive interactions, raising questions about its role in enhancing pedagogical approaches. This study influence ChatGPT on research endeavors within academic circles. Examining whether ChatGPT aids in idea generation, literature review, or even collaborative writing could provide valuable insights into the evolving landscape of scholarly pursuits.

OBJECTIVES OF THE STUDY

- To ascertain the usage level of the ChatGPT among the academicians.
- To identify the factors that influence the use of ChatGPT.
- To know the impact of using ChatGPT among the academicians.

STATEMENT OF THE PROBLEM

In today's digital environment, human power is being used as little as possible, with artificial intelligence taking over. A chatbot known as ChatGPT was created by open AI. It can reduce the amount of labour, simplify it for them, and offer a range of materials, data, and information. Through the use of a generatively pre-trained transformer, we may obtain complete clarity and accuracy of the outcome by implementing this chatGPT. Academicians mostly use it to construct their research, articles, and other works. Thus, this is an attempt to study the impact of using ChatGPT by academicians.

LIMITATIONS OF THE STUDY

- The survey's applicability to other cities is limited because it was conducted solely in the Coimbatore region.
- This study is based on primary data, so any inaccurate information provided by the respondents may mislead the findings.
- The ChatGPT was designed to function only until 2022.
- The collection of data is done through digital mode, hence the illiterate people can't respond.

RESEARCH METHODOLOGY

Research methodology refers to the systematic process used to collect, analyse, and interpret data for a particular study.

1. Research Design

This study adopts a descriptive research design to assess the level of awareness and risk perception of online gambling among college students. The design is suitable as it focuses on describing existing conditions, attitudes, and perceptions without manipulating any variables.

2. Sample Size and Sampling Technique

A sample of respondents was selected from the target population using a convenience sampling method. The total sample size for the study was 115 students.

3. Data Collection Methods

1. **Primary Data:** Primary data is collected through a structured questionnaire distributed among college students.
2. **Secondary Data:** Secondary data is gathered from Research articles and journals, Government reports and publications, Websites and online sources related to online gambling.

4. Tools for Data Analysis

Simple percentage analysis.

REVIEW OF LITERATURE

1. **Dinesh Kalla, Nathan Smith(2023)**, “Study and Analysis of Chat GPT and its Impact on Different Fields of Study” ChatGPT is a revolutionary technology that uses advanced artificial intelligence techniques to generate natural language responses to a given prompt or input. It has been used across various fields, from natural language processing to customer service to content creation. This study and analysis of ChatGPT explore its origins, how it works, and its impact on different fields of study. It examines the advantages and disadvantages of ChatGPT, as well as its limitations and features. It also discusses the impact of ChatGPT on academics, cyber security, customer support, software development, jobs, and information technology, as well as its potential applications for researchers and scholars.
2. **Konstantinos I Roumeliotis, Nikolaos D Tselikas(2023)**, “ ChatGPT and Open-AI Models” According to numerous reports, ChatGPT represents a significant breakthrough in the field of artificial intelligence. ChatGPT is a pre-trained AI model designed to engage in natural language conversations, utilizing sophisticated techniques from Natural Language Processing (NLP), Supervised Learning, and Reinforcement Learning to comprehend and generate text comparable to human-generated text. This article provides an overview of the training process and fundamental functionality of ChatGPT, accompanied by a preliminary review of the relevant literature. Notably, this article presents the first comprehensive literature review of this technology at the time of publication, aiming to aggregate all the available pertinent articles to facilitate further developments in the field. Ultimately, the authors aim to offer an appraisal of the technology’s potential implications on existing knowledge and technology, along with potential challenges that must be addressed.
3. **Som S Biswas(2023)**, “Potential use of chat GPT in global warming” Climate change is a major global challenge that requires the integration of many different scientific disciplines, including atmospheric science, oceanography, and ecology. The complexity and scale of the problem require sophisticated tools and techniques to understand, model, and project future climate conditions. Artificial intelligence and natural language processing technologies, such as ChatGPT, have the potential to play a critical role in advancing our understanding of climate change and improving the accuracy of climate projections. ChatGPT can be used in a variety of ways to aid climate research, including in model parameterization, data analysis and interpretation, scenario generation, and model evaluation. This technology provides researchers and policy-makers with a powerful tool for generating and analyzing different climate scenarios based on a wide range of data inputs, and for improving the accuracy of climate projections.

DATA ANALYSIS AND INTERPRETATION

TABLE 1

TABLE SHOWING GENDER OF THE RESPONDENTS

| S.NO | GENDER | NO OF RESPONDENTS | PERCENTAGE |
|------|--------------|-------------------|------------|
| 1 | Male | 79 | 52.7% |
| 2 | Female | 71 | 47.3% |
| | Total | 150 | 100 |

INTERPRETATION

From the above table, it shows that 52.7% of the respondents are Male, 47.3% of the respondents are Female. Hence, majority (52.7%) of the respondents are Male.

TABLE 2

TABLE SHOWING THE AGE OF THE RESPONDENTS

| S.NO | AGE | NO.OF RESPONDENTS | PERCENTAGE |
|------|----------------|-------------------|------------|
| 1 | 15 -20 years | 42 | 28% |
| 2 | 21 – 30 years | 102 | 68% |
| 3 | 31 – 40 years | 4 | 2.7% |
| 4 | Above 40 years | 2 | 1.3% |
| | Total | 150 | 100 |

INTERPRETATION

The above table shows that 28% of the respondents are between 15- 20 years, 68% of the respondents are between 21-30 years, 2.7% of the respondent are between 31-40 years, 1.3% of the respondents are above age of 40 years. Hence, majority (68%) of the respondents are between 21-30 years.

CONCLUSION

This study has offered a comprehensive exploration on impact of ChatGPT on academicians within educational settings. The integration of ChatGPT has shown promise in transforming traditional teaching methodologies and enhancing various aspects of academic activities. The findings from this research indicate that ChatGPT has played a pivotal role in facilitating interactive and personalized learning experiences. Most of the students are using this chatGPT for the purpose of content and they feel that use of ChatGPT has made their work more efficient and effective. Over 56.7% of the undergraduate students are rely on ChatGPT for completing their work. This has shows both positive and negative impacts. As a conclusion students should be educated with the uses and limitations of chatGPT.

REFERENCE

1. **Dinesh Kalla, Nathan Smith(2023)**, “Study and Analysis of Chat GPT and its Impact on Different Fields of Study”.
2. **Konstantinos I Roumeliotis, Nikolaos D Tselikas(2023)**, “ ChatGPT and Open-AI Models”.
3. **Som S Biswas(2023)**, “Potential use of chat GPT in global warming”.