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**“Addressing Socio-economic Disparities in Access to Quality
Education: Challenges and Strategies under the National
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Addressing Socio-Economic Disparities in Access to Quality Education: Challenges and Strategies Under the National Education Policy

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A STUDY ON AWARENESS TOWARDS ARTIFICIAL INTELLIGENCE AMONG STUDENTS IN POLLACHI TALUK

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ABSTRACT

This study determined students' awareness towards artificial Intelligence for learning in Pollachi Taluk. The sample size included a multistage sample of 100 Arts undergraduates in Pollachi taluk. There are two objectives framed for this study are as follows: To identify the level of awareness towards AI and to analyses the benefits of AI in education purpose. The findings of the study Majority of the students (65.00%) belong to the age group up to up to 18 years, majority of the respondents (75.00%) are Male, under graduate qualification constitute of 60.00%, Regarding awareness towards AI (40%) are in the students group This study concluded that students' ability to explore digital resources such as AI is dependent on their awareness and access to digital technologies. A lack of these will result in a lack of use and lack of skill to use them. It is concluded that there is a growing recognition of AI's potential to enhance teaching and learning, there remains a significant gap in the depth of understanding and practical application among future educator.

I.INTRODCUTION

Education systems urgently need assistance in managing new opportunities and hazards as technology transformation picks up speed. When used effectively, technology, especially artificial intelligence (AI), presents a special chance to support education systems in implementing new applications, a teaching and learning methodology that places a strong emphasis on equipping students with the knowledge, skills, attitudes, and values they will need in the future. Artificial Intelligence (AI) has the potential to increase the efficacy of education systems designed to prepare students for the future by expanding their reach. However, there are hazards and difficulties for both educators and students. The potential benefits of using AI in education are significant. Personalized learning, one of the most significant advantages of AI in education, can lead to better student outcomes, as students can learn at their own pace and in a way that suits their learning style.

AI encompasses a range of technologies that enable machines to perform tasks that typically require human intelligence. This includes capabilities such as learning from data, understanding natural language, recognizing patterns, and making decisions. In education, AI can be applied in various ways to support both teachers and students. As AI continues to evolve, its role in education is likely to expand. Future developments may include more sophisticated AI systems that further personalize learning experiences, improve educational outcomes, and support teachers in new and innovative ways. Ongoing research, ethical considerations, and collaboration among educators, technologists, and policymakers will be key in shaping the future of AI in education.

II. REVIEW OF LITERATURE

(**M. Solis, C Alejandra, C. Eduardo, J. Luis, and J.-H. Tovalín-Ahumada**) 2023 in their study entitled that “The impact of artificial intelligence on higher education: A sociological perspective,” found that AI-supported digital services are increasingly prevalent in schools. However, there are concerns regarding the loss of human decision-making, laziness, privacy issues, lack of trust, cost, and potential bias associated with AI in education. The challenges include the need for careful consideration of ethical concerns, integration into current educational systems, and the potential lack of human interaction in classrooms due to automation processes enabled by AI.

(**S. Gartner and M. Krašna, 2023**) in their study entitled that “Artificial intelligence in education—Ethical framework,” suggested that Ethical implications arise from the potential risks of AI-generated content, such as plagiarism, loss of critical thinking skills, and reduced creativity in academic writing. Additionally, there is a need to promote awareness among students and researchers regarding the ethical implications of using AI in academic writing [29]. The ethical considerations of AI in education include autonomy, privacy, trust, and responsibility.

(**T. Adigüzel, M. H. Kaya, and F. K. Cansu, 2023**) in their study entitled that “Revolutionizing education with AI: Exploring the transformative potential of ChatGPT,” “It is important to address these concerns by strengthening plagiarism detection methods, promoting ethical AI usage, incorporating AI into the educational curriculum, and developing guidelines and regulations surrounding the use of AI in academic settings.

III. STATEMENT OF THE PROBLEM

Now a days AI plays an important role in all the area. Especially in education it plays significant role. To know whether arts students are having awareness about the AI. So, the following questions were raised in the minds of researcher are as follows:

1. What is the level of awareness about AI?
2. What are the benefits of AI in education?

IV. OBJECTIVES OF THE STUDY

To identify the answer for the above questions raised in the minds of researcher the following objectives are framed are as follows:

1. To identify the level of awareness towards AI.
2. To analyse the benefits of AI in education purpose.

V. METHODOLOGY

The following methodology has been adopted in the study is explained in various heads like Data, Sampling and framework of analysis in the below paragraph.

VI. SOURCE OF THE DATA

1. The present study is based on both the primary and secondary data. The primary data has been collected through well framed questionnaire. The secondary data was collected through different sources like Books, articles, journals, magazines and newspapers.

2. SIZE OF THE SAMPLE

Sample size indicates the number of components selected for the study. To analyze the problem, more than 100 students are going to considered for this study.

3. AREA OF THE STUDY

This study is going to conduct in Pollachi taluk.

4. FRAME WORK ANALYSES

The following statistical tools were going to use for analyses the data are as follows;

1. Chi-square test
2. Friedman Rank test

VI. PROFILE OF RESPONDENTS

The demographic profile of students includes variables such as age, gender, marital status, educational qualification, it is presented in table 1.1.

PROFILE OF RESPONDENTS (TABLE 1.1)

Particulars	Numbers	Percentage
Age		
Up to 18 years	65	65.00
Above 18 years	35	35.00
Gender		
Male	75	75.00
Female	25	25.00
Educational qualification		
Under Graduate	60	60.00
Post Graduate	40	40.00
Awareness about AI		
Aware	30	30.00
Unaware	40	40.00
Partly known and partly unknown	30	30.00

Table 5.1 shows that, majority of the students (65.00%) belong to the age group up to up to 18 years. Majority of the respondents (75.00%) are male. Under graduate qualification constitute of 60.00%. Regarding awareness towards AI (40%) are in the students group.

VII. USES OF AI IN EDUCATION

The following table show the uses of AI for the education purpose by using rank test are as follows:

TABLE 1.2

USES OF AI IN EDUCATION

S. No	Uses of AI	Rank
1.	AI used to take down class notes	2
2.	It is used to make presentations	5
3.	AI helps to summarize lessons/notes	6
4.	It helps make to easy essays	3
5.	AI helps to rephrase essays	4
6.	AI used to solve mathematical problems	1
7.	It helps to write grammatically correct sentences/paragraphs	7
8.	It is used to improve my presentation skills	8
9.	AI helps to translate from one language to another	9

The above table 1.2 explain about the uses of AI in the education field by using rank. The first rank given to AI used to solve mathematical problems, second rank to AI used to take down class notes, It helps make to easy essays is raked three and followed by AI helps to rephrase essays, It is used to make presentations, AI helps to summarize lessons/notes, It helps to write grammatically correct sentences/paragraphs, It is used to improve my presentation skills, AI helps to translate from one language to another.

VIII. FINDINGS OF THE STUDY

The findings of the study are as follows:

- Majority of the students (65.00%) belong to the age group up to up to 18 years.
- Majority of the respondents (75.00%) are Male.
- Under graduate qualification constitute of 60.00%.
- Regarding awareness towards AI (40%) are in the students group.

USES OF AI

The first rank given to AI used to solve mathematical problems, second rank to AI used to take down class notes, it helps make to easy essays is raked three and followed by AI helps to rephrase essays, it is used to make presentations, AI helps to summarize lessons/notes, It helps to write grammatically correct sentences/paragraphs, It is used to improve my presentation skills, AI helps to translate from one language to another.

IX. CONCLUSION

The study on the awareness of artificial intelligence (AI) tools in Pollachi taluk has provided valuable insights into the current state of AI knowledge and its perceived relevance in the field of education. The findings reveal that while there is a growing recognition of AI's potential to enhance teaching and learning, there remains a significant gap in the depth of understanding and practical application among future educators. More over the policy makers and stake holders of teacher education programmer needs to concentrate on incorporating AI tools in the curricula of teacher education programmers.

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