



Original Article

Awareness and Use of AI in Transforming Evaluation in Education

Dr. S. Karthiyayeni

Principal & Associate Professor, R. V. Teachers College, Jayanagar, Bangalore, Karnataka

Manuscript ID:
RIGJAAR-2025-0203035

ISSN: 2998-4459

Volume 2

Issue 3

Pp. 169-172

March 2025

Submitted: 18 Feb 2025

Revised: 27 Feb 2025

Accepted: 15 Mar 2025

Published: 31 Mar 2025

Correspondence Address:

Dr. S. Karthiyayeni
Principal & Associate Professor, R. V.
Teachers College, Jayanagar,
Bangalore, Karnataka
Email:
karthiyayeni.rvte@rvei.edu.in

Quick Response Code:



Web: <https://rlgjaar.com>



DOI: 10.5281/zenodo.21886689

DOI Link:

<https://doi.org/10.5281/zenodo.21886689>



Creative Commons



Abstract

Changes in educational demands necessitate innovation and creativity in the learning process. With the advancement of Artificial Intelligence (AI) in education, daily activities, including teaching and learning, are becoming more efficient. Technology has become an integral part of modern life, reshaping not only how we live but also how we work, learn, and interact. Continuous technological innovations make tasks more practical and effective. One of the most recent developments is Artificial Intelligence (AI), which is gaining attention for its ability to perform human-like tasks. AI is revolutionizing educational evaluation by enabling faster, more comprehensive data analysis, personalized feedback, and automation of routine tasks, ultimately enhancing student learning and teacher efficiency. By leveraging AI, educators can develop innovative teaching strategies, integrate immersive technologies, and tailor learning experiences to meet individual student needs. The rapid advancements in AI represent a significant shift with transformative potential across various sectors, including education. This article examines the growing awareness and application of AI in educational evaluation, exploring its implications for assessment practices and future developments. Changes in educational demands necessitate innovation and creativity in the learning process. With the advancement of Artificial Intelligence (AI) in education, daily activities, including teaching and learning, are becoming more efficient. Technology has become an integral part of modern life, reshaping not only how we live but also how we work, learn, and interact. AI in education is transforming how one learns and progress. Artificial Intelligence (AI) has the potential to tackle some of the most significant challenges in education, revolutionize teaching and learning methods, and accelerate progress. However, the rapid pace of technological advancements has introduced various risks and challenges that have outstripped policy discussions and regulatory measures. Like many transformative technologies, AI evolved over years before making a sudden, widespread impact. Today, it is everywhere, offering ground breaking possibilities for education.

Keywords: Artificial Intelligence (AI), Educational Evaluation, B.Ed. Students, AI Awareness, Student Assessment, Personalized Learning, Educational Technology, Learning Analytics, Teacher Education, AI-based Assessment.

Introduction

AI empowers educators to personalize learning experiences, catering to individual student needs and making education more engaging and effective. Additionally, AI-powered tools enhance administrative efficiency, allowing teachers to dedicate more time to instruction. Discover how educators and school administrators are leveraging AI tools today and explore the future potential of artificial intelligence in education.

Research Study:

“Awareness among B. Ed Students in the use of AI in Evaluation” –A Study

Evaluation is the process of assessing or measuring the quality, significance, amount, or value of something. It involves analysing performance, comparing predictions with actual results, and determining how well students complete a task. In education, evaluation refers to the systematic collection and assessment of data on student learning, teaching methods, and program effectiveness to enhance instruction and improve student outcomes. Educational evaluation focuses on gathering and interpreting data to understand how a student's behaviour and progress develop throughout their academic journey. It is an ongoing process that emphasizes informal academic growth rather than solely formal academic achievements.

Creative Commons (CC BY-NC-SA 4.0)

This is an open access journal, and articles are distributed under the terms of the [Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International Public License](https://creativecommons.org/licenses/by-nc-sa/4.0/), which allows others to remix, tweak, and build upon the work noncommercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.

How to cite this article:

S. Karthiyayeni. (2025). Awareness and Use of AI in Transforming Evaluation in Education. Royal International Global Journal of Advance and Applied Research, 2(3), 169–172.
<https://doi.org/10.5281/zenodo.21886689>

AI analyzes student data to identify individual learning needs, allowing for the delivery of customized content. It designs personalized learning paths and suggests resources based on each student's strengths and weaknesses. By efficiently managing tasks that may be difficult for teachers, AI helps pinpoint areas for improvement. To maintain fairness, evaluations should be transparent and rigorous, fostering student trust in the results.

Need and Importance of the Study:

As AI rapidly transforms various industries, including education, it is revolutionizing teaching and learning by providing personalized, adaptive, and engaging experiences. By leveraging AI technologies, educators can enhance instruction, automate tasks like grading and report generation, and make data-driven decisions to improve student outcomes. AI can also identify trends, predict performance, and suggest interventions, ultimately supporting more effective teaching strategies. However, further research is needed to assess the effectiveness and reliability of AI-powered assessment tools, explore their impact on student learning, and understand how AI will reshape educators' roles and responsibilities. This study aims to examine B.Ed students' awareness of AI in educational evaluation.

Review of related Literature:

A review of related literature provides insight into the volume of research conducted in a specific field. Limited studies have been carried out on the intersection of AI and evaluation in education. Some of the existing research includes:

Indra Saputra (2024) explores the evolving role of Artificial Intelligence (AI) in educational assessment in *"The Evolution of Educational Assessment: How Artificial Intelligence is Shaping the Trends and Future of Learning Evaluation."* The study examines current trends, evaluates AI's impact on learning, and predicts future advancements. The findings indicate that AI-driven assessment systems offer adaptive, personalized feedback, enhance student engagement, and support individualized learning pathways.

Ferhan Girgin Sagn (2023), in *"Current Evaluation and Recommendations for the Use of Artificial Intelligence Tools in Education,"* explores the integration of AI tools in education, highlighting their potential to revolutionize teaching methods while also addressing the challenges they pose. The study notes a divide within the educational

Analysis and Findings:

Table-1: Showing the percentage of the responses

Sl.No.	Statements	Percentage
1.	AI cannot revolutionize student evaluation by providing personalized, efficient, and objective assessments	47.8
2.	AI tools will be helpful in evaluating students performance	86.8
3.	AI-based assessments can reduce bias in grading, ensuring that all students are evaluated based on the quality of their work	88.1
4.	Evaluation through AI is very fast and easy	94.3
5.	AI evaluation is not free from human errors.	47.2
6.	AI helps in quick data analysis of the scores, leading to improved learning outcome.	95.6
7.	AI enables educators to tailor their teaching and assessment strategies to meet the unique needs of each learner.	82.4

community—some advocate for AI as an essential tool due to its accessibility and efficiency, while others express concerns about its impact on academic integrity and intellectual growth.

No research has been conducted on the relationship between AI and evaluation in the context of B.Ed students, highlighting the need for further exploration in this area.

Research Questions:

1. To what extent are B.Ed. students aware of AI applications in evaluation?
2. How can AI-driven evaluation impact the transformation of the educational system?
3. Can AI enhance transparency in the evaluation process?

Objectives of the Study:

1. To study about the awareness of using AI in evaluation among B.Ed students.
2. To study about the awareness of AI in evaluation among the B.Ed students in different types of institutions.
3. To study about the awareness of using AI in evaluation among the male and female B.Ed students.

Variables of the Study:

1. Dependent Variable:

Awareness of AI in Evaluation: The level of knowledge and understanding that B.Ed students have about using AI in evaluation.

➤ **Type of Institution:** The classification of institutions (e.g., government, private, or other categories) where B.Ed students are enrolled.

➤ **Gender:** The classification of students based on gender (male and female).

These variables will help analyse the proportions in AI awareness in evaluation based on institutional type and gender.

Hypotheses of the Study:

1. The proportion of B.Ed students who are aware of AI usage in evaluation differs from those who are not.
2. The proportion of B.Ed students aware of AI in evaluation varies based on the type of institution.
3. The proportion of B.Ed students aware of AI in evaluation differs based on gender.

8.	AI can't help to identify the student's strength and weaknesses	40.9
9.	AI cannot identify students who are educationally backward and help educators provide timely support.	35.2
10.	AI is reshaping the landscape of assessment and evaluation in education	90.6

The above table indicates the following:

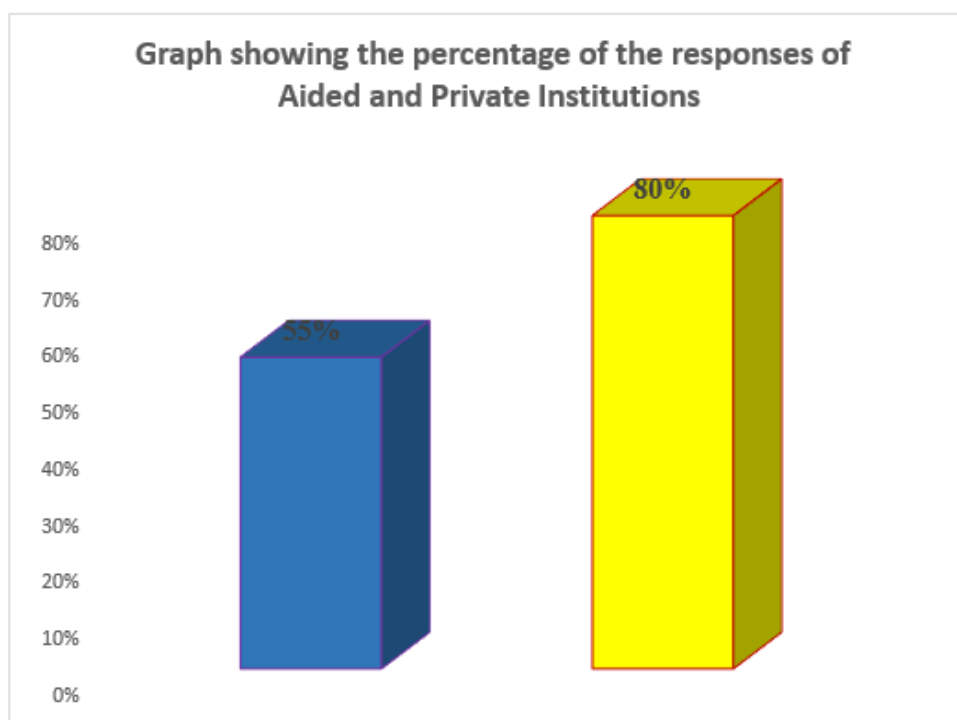
1. The B.Ed students of Bangalore believe that AI has the potential to revolutionize educational evaluation in various ways. According to their views, 93.5% agree that AI makes evaluation fast and easy, facilitates quick data analysis of scores, enhances learning outcomes, and is reshaping the assessment landscape in education.
2. Additionally, 85.7% believe that AI tools are beneficial for evaluating student performance, reducing grading bias by ensuring fair assessments based on work quality, and enabling educators to personalize teaching and assessment strategies to cater to each learner's unique needs.
3. Finally, 42.7% of students feel that AI cannot revolutionize student evaluation by providing personalized, efficient, and objective assessments. They believe that AI-based evaluation is not entirely free from human errors, cannot effectively identify students' strengths and weaknesses, and is unable to recognize educationally backward students to help educators provide timely support.

Table-2: Showing the percentage of the responses of Aided and Private Institutions

Type of Institution	Aided	Private
Percentage	73%	60%

The above table indicates that the B.Ed students studying in Aided colleges are having more awareness about

the use of AI in evaluation and also knows the importance of it compared to students studying in private colleges.



The above graph shows that 70% of students studying in aided B.Ed colleges are having higher awareness when

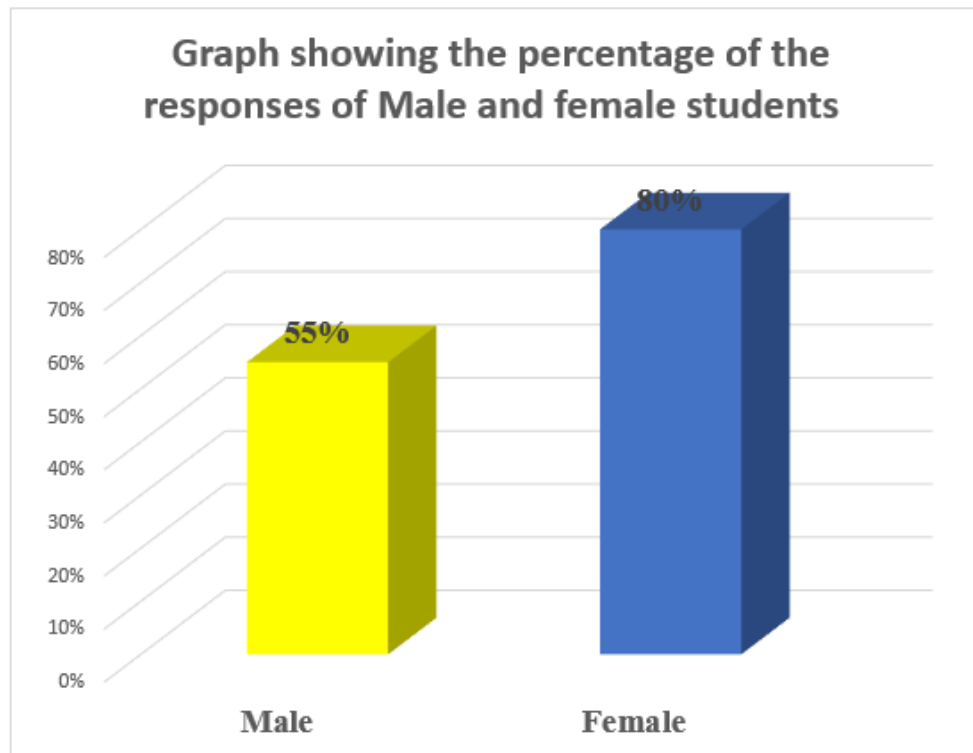
compared to the 63% B.Ed students studying in private colleges.

Table-3: Showing the percentage of the responses of Male and female students

Gender	Male	Female
Percentage	55%	80%

The above table indicates that Female B.Ed students studying in Bangalore are having more awareness about the

use of AI in evaluation and also knows the importance of it compared to male students.



The above graph shows that 80% of female students studying B.Ed colleges are having higher awareness when compared to 55% of male B.Ed students studying in Bangalore.

Educational Implications and Conclusions:

Evaluation must be transparent and rigorous to build trust among students and ensure they accept the outcomes. For this reason, assessments conducted by teachers should be free from bias, prejudice, stereotypes, or any form of discrimination. AI serves as a valuable tool in achieving this objectivity.

By automating time-consuming and repetitive tasks such as data entry, data cleaning, and initial data analysis, AI allows human evaluators to focus on more complex aspects of assessment. This includes interpreting results, making informed decisions, and implementing adaptive management strategies. AI enhances evaluation systems by improving functionality, suitability, performance efficiency, compatibility, usability, reliability, maintainability, and overall effectiveness. Ultimately, AI is transforming the evaluation process by automating tasks, enabling personalized feedback, and providing valuable data insights, leading to more efficient and effective assessments.

Acknowledgment

The author expresses sincere gratitude to all those who contributed to the successful completion of this research paper. Special thanks are extended to the management and faculty of R.V. Teachers College, Jayanagar, Bangalore, for their continuous encouragement, guidance, and academic support throughout the study.

Financial support and sponsorship

Nil.

Conflicts of interest

The authors declare that there are no conflicts of interest regarding the publication of this paper.

References:

1. Nabeel Gillani, Rebecca Eynon, Catherine Chiabaut, and Kelsey Finkel, Unpacking the 'Black Box' of AI in Education," *Educational Technology & Society* 26, no. 1 (2023): 99–111.
2. Gwo-Jen Hwang and Nian-Shing Chen, "Exploring the Potential of Generative Artificial Intelligence in Education: Applications, Challenges, and Future Research Directions," *Educational Technology & Society* 26, no. 2 (2023).