

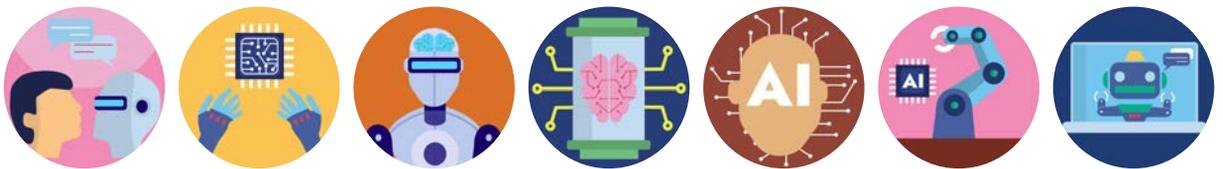
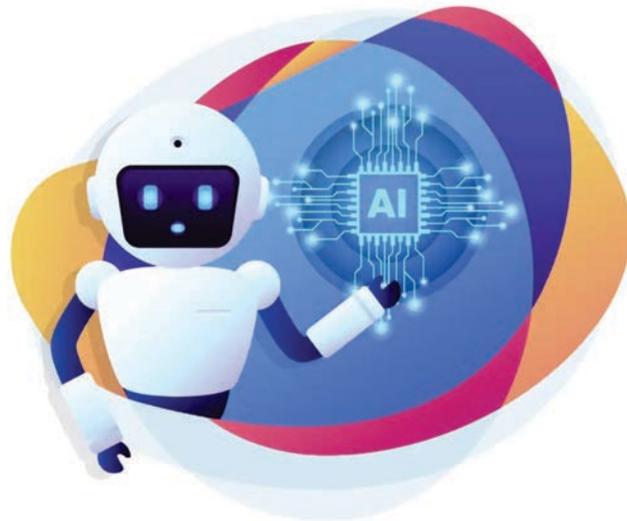
RNI No. HARENG/2010/35200  
ISSN-2348-8824  
Price: Rs. 150/-  
Four Monthly  
Published in English from Gurugram

# NAVNIKA

A JOURNAL OF EARLY CHILDHOOD CARE AND EDUCATION

By Salwan Education Trust

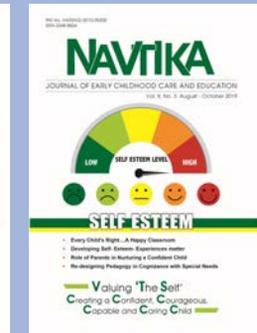
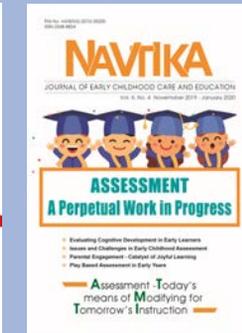
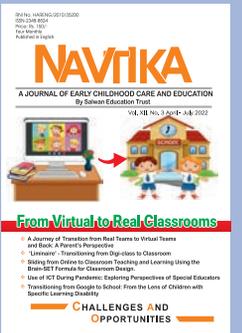
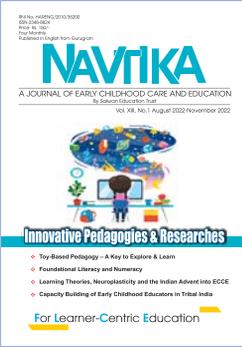
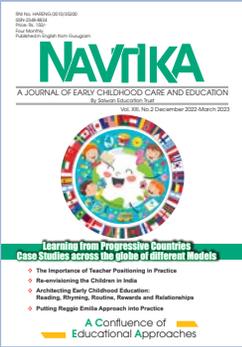
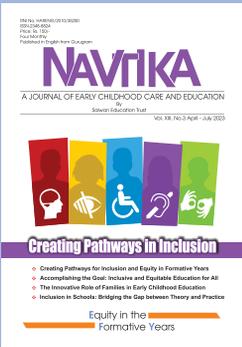
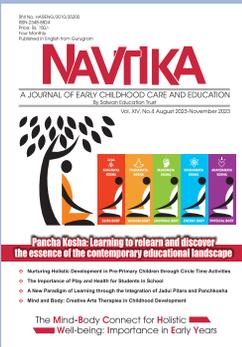
Vol. XIV No. 2 December 2023 - March 2024



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- ❖ Exploring the Integration of AI in Early Childhood Education
- ❖ Cultivating Tomorrow: Unleashing the Potential of AI in Early Years Education
- ❖ Artificial Intelligence in ECCE: A Collaborative Approach
- ❖ Prospects of Artificial Intelligence in Early Childhood Education:  
Can We Expect Humanoid Teachers?

Nurturing Brilliance: AI's Innovative  
Impact on Early Years Education



# NAVTIKA

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By Salwan Education Trust

Navtika is a journal that serves as a practical guide for teachers, parents and other caregivers who nurture and monitor children during the foundational years, i.e., three-eight years. It seeks to provide valuable information, deepen knowledge and address parental concerns, empowering teachers and parents to deliver better care. The journal publishes original work based on standards of excellence and expert views. The articles offer interesting insights into various aspects of children's well-being.

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## PRINTED AND PUBLISHED BY:

Paramjit Khanna for and on behalf of the owners, Salwan  
Education Trust. Published at Salwan Montessori School,  
Sector-5, Gurugram (Haryana) and printed by him at Balaji  
Ad Prints E-4, Mayapuri Industrial Area, Phase-II New Delhi-  
110064. Editor: Mrs Priyanka Barara.

The facts and figures stated, conclusions reached and  
views expressed in different contributions are of the  
contributors concerned and should not be attributed to the  
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## FROM THE

## EDITOR-IN-CHIEF'S DESK

A Digital growth mindset is the need of the hour. Artificial intelligence (AI) has emerged as a tangible reality that holds immense potential to reshape Early Childhood Education. Using AI, we can change the way children learn. AI equips us with valuable insights into each child's learning experience, enabling us to make well-informed decisions regarding instructional tactics and resource allocation. With this knowledge, AI models can create engaging and effective learning experiences that cater to the unique needs of each child thus encouraging differentiated learning.

One of the key benefits of AI in Early Childhood Education is the ability to deliver prompt feedback and assessments. By analysing large volumes of data in real time, AI systems can track a child's development, identifying areas of strength and areas that require additional attention. This data-driven approach empowers parents and educators like us to provide timely support and interventions.

It is imperative to navigate the intersection of AI and Early Childhood Education with a discerning eye, striking a delicate balance between innovation and ethical considerations. Privacy and data security concerns are paramount, as AI systems collect and analyse large amounts of personal data. It is important to create robust privacy policies and protect sensitive information, protecting the trust of parents and teachers.

Though AI can offer personalised learning experiences, it is essential to recognise that human connection is vital for young learners. Teachers, mentors, and parents play irreplaceable roles in guiding and nurturing young minds. Therefore, AI should be seen as one of the tools that helps us navigate previously unthinkable educational possibilities. Added to this, outdoor and nature-based education emerge as a holistic approach, connecting children with their environment.

In the realm of early education, a symbiotic partnership between parents and teachers is imperative, cultivating a nurturing learning atmosphere. Intertwining technology into early education not only enhances learning but also equips children for a technology-centric future.

It is crucial to guarantee that AI-powered educational tools are accessible to every child, regardless of their abilities. Before fully embracing AI in Early Childhood Education, it's vital to tackle the digital divide and ensure fair access to AI-powered learning and be mindful to address privacy concerns while holding onto the significance of human connection. Together, let's create a future in which every child receives the education they so well deserve.

**Dr. (Mrs.) Indu Khetarpal**

**Editor-in-Chief**

\*All articles in this issue of Navtika have been peer-reviewed and critically assessed for academic authenticity and accuracy.

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# Perspectives from the Guest Editor Artificial Intelligence in ECCE: A Collaborative Approach

Dr. Shraddha Kapoor

## ABSTRACT

Artificial Intelligence (AI) is reshaping most of the fields worldwide. On a daily basis, we witness the use of AI in different forms such as using ChatGPT, interacting with Alexa, watching AI-based reels on Instagram, playing AI-based educational games, welcoming the G20 delegates through AI-powered anchors and so much more. It has made its way into different fields such as healthcare, finance, transportation, and education. In the current scenario, AI is playing a key role in implementing and designing ECCE programs.

## INTRODUCTION

Young children nowadays are growing up in a world where AI is omnipresent (Chen and Lin, 2023). This new wave of generative AI has ignited a new hope for better ECE (Yang, 2022). With all the positives, it comes with its own fear of uncertainties (Su and Yang, 2022, 2023). Some educationists and researchers support the use of AI for young children, and some highlight its negative impact and consequences for children as young as 3 years old. According to Chen and Lin (2023), in early childhood education, artificial intelligence is a 'double-edged sword' since it has both positive and negative consequences. Its positive implications include tailored learning, personalized interactive support, and enhanced accessibility to broader learning activities. Its negatives include overuse, privacy issues, ethical considerations, addiction, and misuse of AI. AI-powered toys and services such as PopBots, Quickdraw, among others, are designed for early childhood education to provide exciting learning experiences to learners as they engage with robots and kits and learn about them (Williams, 2018; Williams et al., 2019 a,b). Young children can explore and appreciate these AI technologies in their daily lives even though they may not grasp the science behind them (Su, 2023).

AI has a vital role to play in the administration,

implementation and designing of Early Childhood Care and Education (ECCE) programs. Some of the potential applications of AI in ECCE are delineated hereunder.

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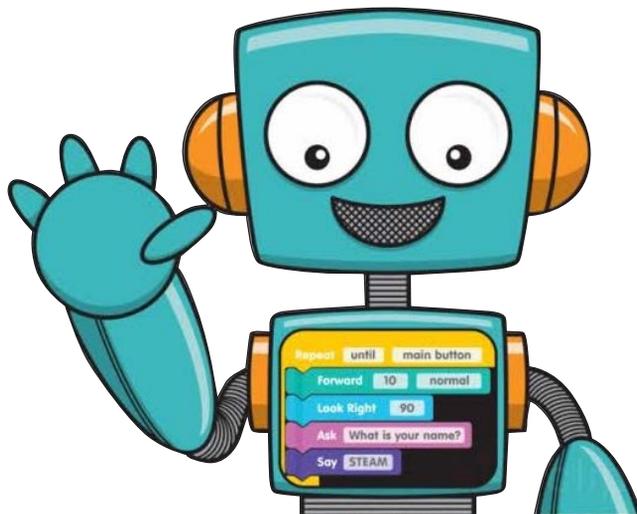
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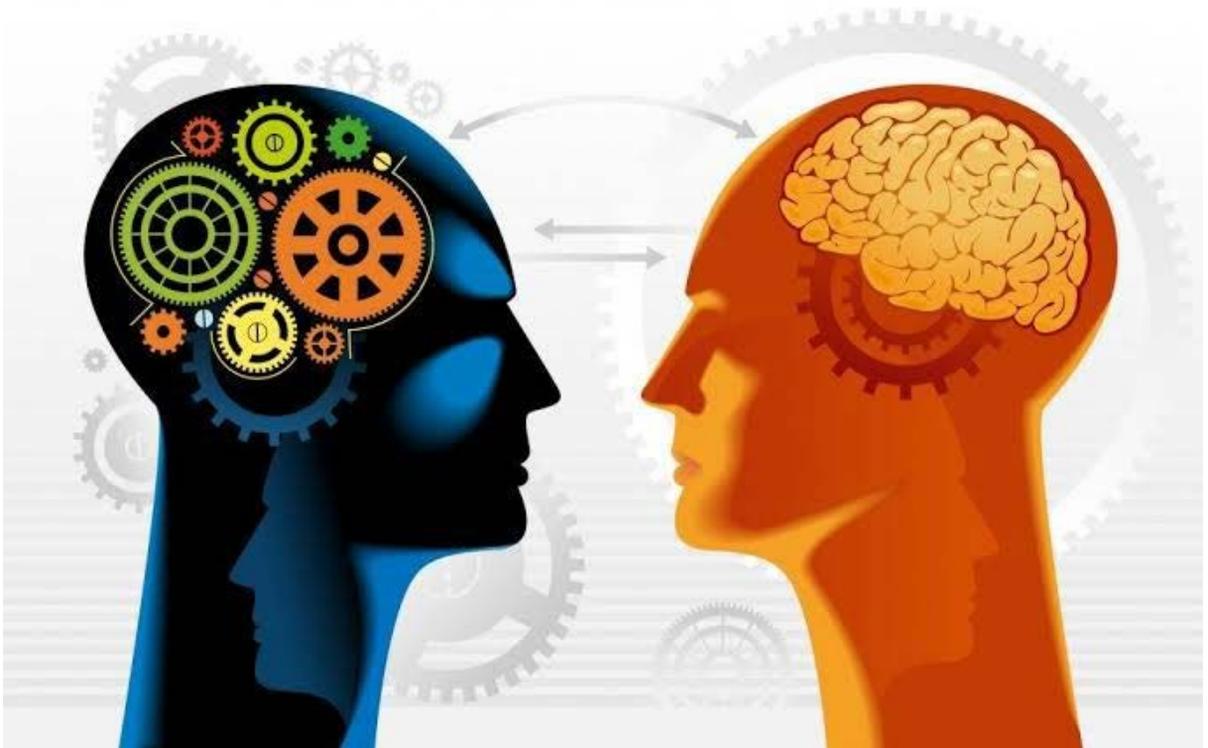
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**"Education is not just about going to school and getting a degree. It's about widening your knowledge and absorbing the truth about life."**

*Shakuntala Devi (1929-2013)*