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Patent Search

Invention Title	Artificial Intelligence System for Tailored Educational Guidance
Publication Number	31/2025
Publication Date	01/08/2025
Publication Type	INA
Application Number	202541069884
Application Filing Date	22/07/2025
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q0050200000, G06N0020000000, G09B0005020000, G06N0003080000, G09B0019000000

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Abstract:

The invention discloses an Artificial Intelligence System for Tailored Educational Guidance designed to deliver personalized learning experiences by analyzing individual data and adapting instructional content accordingly. The system utilizes AI algorithms, machine learning models, and predictive analytics to monitor academic progress, knowledge gaps, and suggest real-time interventions. It features adaptive testing, natural language interaction, and dynamic learning pathways that evolve with the learner's needs. Comprehensive analytics dashboards empower educators with actionable insights, while the system's ethical design ensures fairness, transparency, and privacy protection. With a scalable, modular architecture compatible with various learning platforms, the system supports formal education, professional training, and lifelong learning initiatives. Accessibility and motivational support features further enhance learner engagement and retention. By integrating advanced AI technologies with a deep understanding of educational dynamics, this system transforms conventional learning models into adaptive, learner-centric experiences, promoting effective learning, improved academic outcomes, and broader access to personalized education solutions.

Complete Specification

Description:The present invention relates to the field of Artificial Intelligence (AI)-powered Educational Systems, specifically focusing on intelligent platforms designed for delivering personalized learning experiences and guidance. It is associated with the application of AI, machine learning algorithms, and data-driven analytics in the field of education technology (EdTech). The invention aims to create a system capable of assessing individual learners' strengths, weaknesses, learning patterns, and academic needs by analyzing real-time data and historical learning records. This system operates within the broader field of adaptive learning environments and intelligent tutoring systems. It utilizes AI models for predicting learning outcomes, recommending suitable study materials, and generating customized learning paths. The invention is particularly relevant to educational institutions, e-learning platforms, and training organizations seeking efficient methods for student engagement and academic performance improvement. It also extends to the field of cognitive computing applied to educational content delivery and student support systems.

Background of the invention:

The rise of digital technology and the rapid integration of Artificial Intelligence (AI) into various industries have revolutionized many sectors, including education. Traditional education systems, whether in classrooms or online platforms, have long followed a generalized and uniform approach to teaching and learning. These methods often fail to cater to the diverse learning abilities, preferences, and academic goals of individual students. The conventional model of instruction, based on a fixed curriculum and standardized teaching methodologies, does not account for variations in learners' cognitive skills, prior knowledge, learning pace, or specific areas of interest. As a result, many students either struggle to keep up with the content or find the learning experience unchallenging and disengaging, which directly impacts their academic performance, motivation, and long-term learning outcomes.

In recent years, educational researchers, technologists, and policymakers have recognized the need for personalized learning environments that adapt to the unique

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Page last updated on: 26/06/2019