

Smart Classroom with AI Tutorial

Mr. B. Venkatesh ME¹, S. Dheepika², K. Kaviya Sri³

Assistant Professor, Department of Information Technology¹

Students B.Tech, Department of Information Technology^{2,3}

Anjalai Ammal Mahalingam Engineering College, Kovilvenni, Thiruvavur

venkateshaamec@gmail.com¹, dheepika0707@gmail.com², kaviyasripsm@gmail.com³

Abstract: *The Smart Classroom with AI Tutorial is an innovative educational platform aimed at enhancing virtual learning through artificial intelligence for personalized student support. Borrowing from the likes of Google Classroom, it allows teachers to upload learning materials, whereas students interact with an AI tutor capable of explaining topics, answering questions, and summarizing content from the uploaded materials. Among its principal attributes is the support for multilingualism so that students can select their preferred language for better understanding, thereby enhancing inclusivity and accessibility of the learning process. Another feature is an audio conversion of texts that will read through the study materials and AI responses, catering for auditory learners and those with visual impairment. The AI responds to student queries using natural language processing (NLP), returning accurate and context-based answers. This allows students to learn independently and at their pace after the normal classroom sessions. With an easy-to-use interface for teachers and students alike and analytics, feature for tracking student engagement, the Smart Classroom with AI Tutorial nurtures an interactive, flexible, and inclusive learning environment through intelligent communication capabilities, multilingual support, and voice features that hold together its diverse educational needs.*

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