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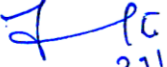
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**Deep Learning-Based Facial Expression Recognition for Analysing Learner
Engagement in Multimedia Enhanced Teaching**

Chapter 1

Introduction

In recent years, advancements in digital media have enabled education to grow effectively, offering flexible and interactive learning environments for students. Additionally, education leaders are continually exploring new ways to integrate technology into physical classrooms to improve student learning outcomes and better prepare students for a high-tech world.

According to a 2022 report, the use of educational technology (EdTech), including TEL tools, increased by 99% following the COVID-19 pandemic [3]. This surge has transformed education, making learning more accessible, flexible, and engaging. Over the past decade, advances in digital tools and internet connectivity have enabled TEL to thrive in both formal and informal educational settings. Today, online courses, virtual classrooms, adaptive learning software, and immersive technologies like virtual reality (VR) support a variety of learning styles and needs [4].

This growth is fueled by the increasing demand for personalized, on-demand education that meets the needs of diverse student populations, including remote learners, working professionals, and those with unique learning preferences. TEL platforms, such as learning management systems (LMS) and mobile apps, allow students to learn at their own pace, access a vast array of resources, and engage in interactive and collaborative learning activities.

As a research field, TEL investigates how technologies can enhance learning and teaching processes to achieve better outcomes and seeks to develop new technologies that improve these processes. TEL researchers ask a wide range of research questions—explorative, descriptive, analytical, predictive, interventionist, design-oriented, normative, and artistic—and employ diverse data collection and analysis methods, including quantitative and qualitative, as well as inductive and deductive approaches [5].

Furthermore, educational institutions and policymakers recognize the importance of integrating TEL to enhance learning outcomes and prepare students for a technology-driven

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