

Enhancing AI-Based Digital Technology Planning, Leadership, and Management to Transform Education

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EXECUTIVE SUMMARY

A computer-generated simulation known as virtual reality submerges viewers in a three-dimensional setting. Users using VR headsets can interact realistically with items and situations while giving the impression that they are in a different location. VR has the potential to transform education by enhancing learning through immersive, engaging experiences. The use of VR in teacher education has drawn

more attention in recent years. This is due to the fact that VR may be used to give teachers safe, realistic learning experiences that are challenging or impossible to reproduce in a conventional classroom setting. The combination of artificial intelligence (AI) with augmented reality/virtual reality (AR/VR) is causing a dramatic shift in communication technology. This talk examines the fascinating intersections between these domains, emphasizing how AI fosters communication and how advancements in AR/VR technology broaden the scope of connection.

INTRODUCTION

VR has the potential to transform education by enhancing learning through immersive, engaging experiences. The use of VR in teacher education has drawn more attention in recent years. This is due to the fact that VR may be used to give teachers safe, realistic learning experiences that are challenging or impossible to reproduce in a conventional classroom setting. AI's Redefining Touch on Communication: From Channels to Solutions

AI is transforming communication across text, audio, and video, impacting content delivery, sentiment analysis, and even language translation (Bowman & McMahan, 2007). Here's a breakdown of its influence and potential:

1. Personalized Content Delivery:

Text: AI analyzes user data (e.g., browsing history, search queries) to suggest relevant articles, emails, or chat messages. Think of personalized news feeds or targeted marketing campaigns (Kemp & Issroff, 2016).

Audio: Music streaming services use AI to recommend songs based on listening habits, while podcasts can dynamically insert ads tailored to individual preferences.

Video: AI-powered platforms curate video recommendations on YouTube or suggest relevant shows on streaming services based on watch history.

2. Sentiment Analysis:

Text: Social media platforms and customer service tools use AI to gauge user sentiment from written text, helping businesses understand customer satisfaction and adjust their approach accordingly (Lai & Bower, 2018).

Audio: AI analyzes speech patterns and tone to detect emotions in calls or voice messages, potentially improving customer service interactions or even flagging potential issues.

Video: Facial recognition and expression analysis can reveal emotional reactions to video content, offering valuable insights for marketing or understanding audience engagement.

3. Real-time Language Translation:

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