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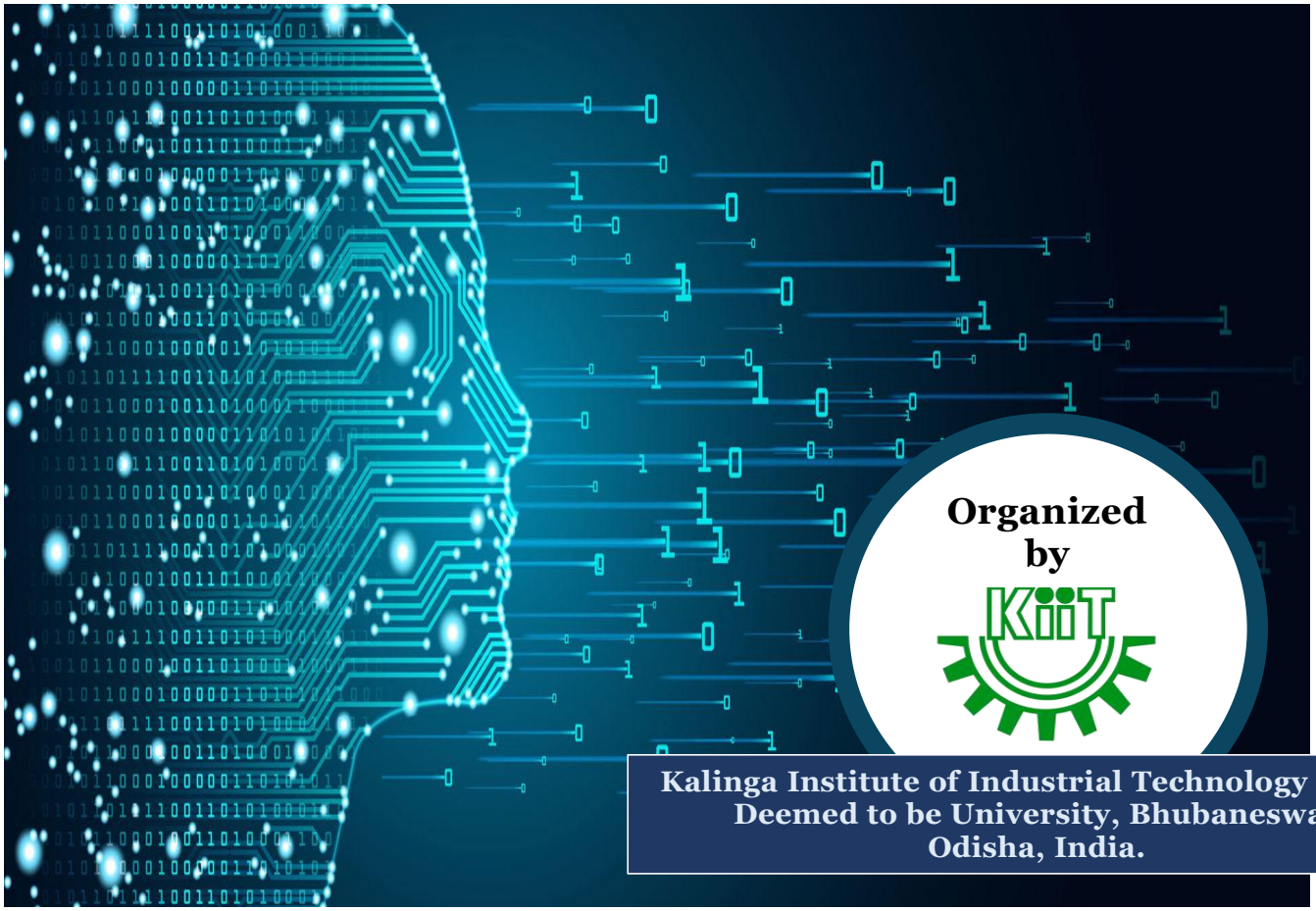

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Usability Evaluation of E-Learning Platforms Using UX/UI Design and ML Technique

Publisher: IEEE

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Abstract: This paper investigates the User Interface (UI) and User Experience (UX) design of various online learning/educational platforms to improve student's satisfaction. In ord... **View more**

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Abstract:

This paper investigates the User Interface (UI) and User Experience (UX) design of various online learning/educational platforms to improve student's satisfaction. In order to find out the importance of UI/UX design, an empirical web based survey was conducted about user experience in terms of UI design of websites including audio, video clarity, screen sharing, messaging chat, number of maximum participants, network adaptability, course, name, age, cost and demographic location. Udemy is their most preferred online learning platforms followed by Coursera. In this study, we give a number of user studies that may be used to evaluate UI and UX and examine usability as well as utility. Additionally, applying ML techniques on curated dataset to recommend best UI design of websites for learners. The experimental result depicts XGB outperforms better than other classifiers for Udemy.

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Contents

Due to Covid-19, it was mandatory to switch education system from an offline mode to an online mode only. However, the implementation of online mode was challenging due to the lack of resources and infrastructure. Prior to the pandemic, many preferred online learning to traditional higher education, but, in the wake of the pandemic, online learning has become essential for all students. In the beginning it was a bit of a struggle for all the person including students but over time they became familiar with it. The issue was caused by two prominent factors like connectivity and usability of UI component. Although there were regional variations in the limiting issue of connectivity, platforms may be made user-friendly through the use of UI and UX design.