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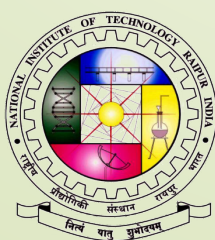
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Data Science	DSC
Networking and Information Security	NIS
Sequential, Parallel, Distributed and Cloud Computing	PDC
Power, Smart Grid and Internet of Things	PSI
Multimedia, Signal Processing, Embedded Systems	MSE
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This paper examines how a User Interface (UI) and User Experience (UX) design for e-learning tools can be designed in a way that can be fully effective for achieving educational outcomes. In order to find out the importance of UI/UX design, a quick survey was conducted using Google Forms about user experience of UI of communications tools in terms of audio, video clarity, screen sharing, messaging chat, number of maximum participants, and network adaptability etc. The survey shows that most of the respondents are male and mean (SD) age 21 years. Zoom app is their most preferred tool. 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 datasets to find the best UI design of video conferencing communication tools for the learners. The experimental result depicts that XGB outperforms better than other classifiers with 93.13% accuracy, 91.28% precision, 96.14% recall and 93.65% f1-score for zoom.

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☰ Contents

I. Introduction

Due to the Covid-19 pandemic people started embracing the importance of online mode of learning. Before the pandemic, people used online mode of learning as an alternative to conventional higher education but after pandemic online mode of learning has become a necessity for every student and employees. The pandemic educated the technical knowledge to all the educators who were unaware of that. In the beginning it was a bit of a struggle for all the teachers, employees and even students but meanwhile they got to it. The struggle was usually caused by a number of factors, however the most significant ones were connectivity and platform usability. Connectivity was a limiting factor which varied from place to place but there was a way to make platforms simple to use i.e. UI and UX design.

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