*Emotion behind the screen:Analysing sentiment student review of online course*

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***Abstract*— In the rapidly expanding landscape of online education, understanding the sentiments expressed by students in their course reviews is paramount for enhancing learning experiences. This study delves into the emotional undercurrents behind the screens, employing sentiment analysis to dissect student reviews of online courses. Through the lens of natural language processing techniques, we scrutinize the textual data to unearth nuanced emotional tones and attitudes embedded within students' feedback. By examining sentiment trends across various courses and topics, we uncover valuable insights into the factors influencing student engagement, satisfaction, and learning outcomes. Our findings shed light on the spectrum of emotions experienced by students, ranging from enthusiasm and appreciation to frustration and dissatisfaction. Furthermore, we discuss the implications of sentiment analysis in informing course design, instructional strategies, and student support mechanisms in online education. This research contributes to the evolving discourse on emotion-aware pedagogy and underscores the significance of empathetic approaches in fostering meaningful online learning environments.**

***Keywords—Sentiment Analysis, Natural Language Processing(NLP), Emotion Detection, Data Processing, Deep Learning***

# Introduction

In the rapidly expanding landscape of online education, understanding the sentiments expressed by students in their course reviews is paramount for enhancing learning experiences. This study delves into the emotional undercurrents behind the screens, employing sentiment analysis to dissect student reviews of online courses. Through the lens of natural language processing techniques, we scrutinize the textual data to unearth nuanced emotional tones and attitudes embedded within students' feedback. By examining sentiment trends across various courses and topics, we uncover valuable insights into the factors influencing student engagement, satisfaction, and learning outcomes. Our findings shed light on the spectrum of emotions experienced by students, ranging from enthusiasm and appreciation to frustration and dissatisfaction. Furthermore, we discuss the implications of sentiment analysis in informing course design, instructional strategies, and student support mechanisms in online education. This research contributes to the evolving discourse on emotion-aware pedagogy and underscores the significance of empathetic approaches in fostering meaningful online learning identified in italic type, within parentheses, following the example. Some components, such as multi-leveled equations, graphics, and tables are not prescribed, although the various table text styles are provided. The formatter will need to create these components, incorporating the applicable criteria that follow.

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##### Acknowledgmt

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