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4th International Conference on Intelligent Systems and Sustainable Computing : Submission (194) has been created.

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Thu, Oct 31, 2024 at 6:25 PM

Hello,

The following submission has been created.

Track Name: ICISCC2024

Paper ID: 194

Paper Title: AI for Healthcare: Emotional Data Mining for Problem Risk Analysis in University Students on Social Media Using Text Mining Analytics

Abstract:

Adolescent mental health care is a significant prevention for teenage problems. Therefore, the research objectives are to study the context of college-educated adolescents' exposure to adolescent mental health problems through social media, to develop a predictive model of adolescent voice in social media posts using text mining analytics, and to evaluate the efficacy of the developed and selected prototype. This research is an application of artificial intelligence and text mining to create innovations in preventing and caring for adolescent mental health. The data collected for analysis were collected from 5,230 social media posts of adolescents studying at the University of Phayao, consisting of six risk issues of adolescents: alcohol, infectious diseases, depression, gaming addiction, pregnancy problems, and drug problems. Five machine learning techniques were selected: Naïve Bayes (NB), Logistic Regression (LR), Support Vector Machine (SVM), Random Forest (RF), and Decision Tree (DT). The model development and performance testing results were highly satisfactory. The model generated using the Support Vector Machine (SVM) and Random Forest (RF) technique had the highest predictive performance, with an accuracy of 86.81 percent. Therefore, concrete applications will be developed in the following research development plan.

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Primary Subject Area: AI for Healthcare

Secondary Subject Areas: Not Entered

Submission Files:[icISDIA_2025_01_PID_xx@isdia.org](#) (03) - 1stDraft [2024-10-31].pdf (387 Kb, Thu, 31 Oct 2024 11:24:41 GMT)

Submission Questions Response: Not Entered

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