Patent Search

Invention Title	EXPLORING MACHINE LEARNING APPROACHES FOR PREDICTING STRESS AND BURNOUT AMONG COLLEGE TEACHERS
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Abstract:

Exploring machine learning approaches for predicting stress and burnout among college teachers is the proposed invention. The proposed invention focuses on understanding the impact of stress and burnout on the performance of college teachers. The invention focuses on analyzing the parameters of stress and burn out among college teachers using algorithms of machine learning.

Complete Specification

Description:[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.
[0002] Machine learning (ML) is the science of developing algorithms and statistical models that computer systems use to perform tasks without explicit instructions. Computer systems use Machine learning (ML) algorithms to process large quantities of historical data and identify data patterns. Machine learning approaches have been applied to many fields including natural language processing, computer vision, speech recognition, email filtering, agriculture, and medicine.
[0003] A number of different types of stress analysis systems among college teachers that are known in the prior art. For example, the following patents are provided for their supportive teachings and are all incorporated by reference.
[0004] Using Machine Learning in Burnout Prediction: A Survey: Accurate prediction provides a number of important benefits for research and decision-making. Occupational burnout is intertwined with individual, cultural, and social factors, the resolution of which requires methods that can deal with large amounts of data. The application of such methods capable of dealing with large datasets is a relatively novel research area in social science. For this purpose, this article presents insights into machine learning methods, mainly related to prediction tasks. A brief review of these techniques in burnout domain was applied. It is shown that the choice of a method depends on the presence of certain dependent variables. This paper also presents a comparison between novel and traditional approaches, which shows that the appropriateness of a technique depends on the aim of the research. The theoretical and practical impli-cations of using machine learning methods in this context is also presented in the paper. It is found that a gap in the study of burnout exists which requires the attention of social work researchers. Through machine learning techniques, new theoretical models of burnout can be created. These algorithms can also provide new approaches to create data-driven interventions. Burnout monitoring systems

View Application Status