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Based on the data sources, machine learning strategies, and feature extraction method, this paper provides a critical assessment analysis on mental health detection in Online Social Networks (OSNs).By finding its data analysis, the appropriateness of the mental health detection was also examined.Technique, contrast, difficulties, and restrictions. Through keyword searches, this research examined articles that had been published in significant databases between 2007 and 2018. Before the complete texts were reviewed, the articles were first screened based on their titles and abstracts. Data set (such as data sources, keywords, and geographic areas), method of data analysis, machine learning or deep learning technique, classifier performance, and feature extraction method were all coded for the articles. 22 articles out of a total of 2770 were chosen for evaluation.The majority of researchers used text analysis on a new data set that was extracted from various OSNs sources because OSNs have a high potential as a data source in the early detection of mental health issues. Utilizing statistical analysis or machine learning methods, the extracted data was examined. Numerous studies also used multimethod techniques, which involved giving out surveys and getting the respondents' permission to later access and extract data from their OSNs accounts. Massive data in OSNs helps identify mental health issues. The proposed technique offers an alternative to conventional approaches for the early detection of mental health issues, such as expensive and time-consuming data collection methods like questionnaires, devices, and sensors. However, detecting mental health issues using OSNs requires a thorough implementation, creative methods, and computational linguistics to outline its drawbacks and difficulties. To obtain accurate and useful information, recommendations from mental health professionals who are subject matter experts are also necessary.

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