Data mining in diagnosis of major depression disorder

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In this research, we are trying to design a model of clinical decision support system (CDSS) for diagnosis of major depressive disorder (MDD). The methodology followed is research and development (R&D). To provide the needed data for diagnosis, a specific inventory has been made based on the necessary criterion of the fifth version of the diagnostic and statistical manual of mental disorders (DSM-5), case history and psychology condition examination. We use data mining as a modeling and testing tool. MLP neural network was used to evaluate accuracy. Evaluation criteria are confusion matrix and area under curve. 80% of the data are educational and 20% are experimental. Results are obtained for an average of 10 times. Finally, model predicts being of disorder or not with acceptable accuracy.

Biography
Masume Bakhtiari completed her Computer Software Engineering from the Arak branch of Azad University. She also has a Master’s Degree in Clinical Psychology. She has an accepted article in 6th Congress of Iranian Psychology, October 2017, Tehran, Iran and another in ICPCE Conference, December 2017, Mashhad, Iran.

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