REVIEW PAPER ON EXPERT SYSTEM FOR DEPRESSION, ANXIETY

Nirmala Shinge*1, Dr.B.T.Jadhav*2

*1Nivrutti Babaji Navale College Of Commerce And Science, Lonavala, Maharashtra, India.

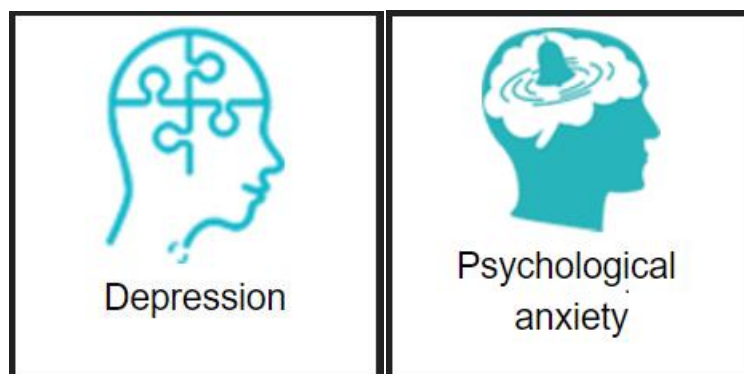*2Rayat Institute Of Research & Development, Satara, Maharashtra, India.

ABSTRACT

Diseases have to be compelled to be treated well and on time. If they don't seem to be treated on time, they will cause many health problems and these issues could become the reason for death. These issues became worse because of the inadequacy of specialists, practitioners and health facilities. during a trial to cope with such issues, studies created makes a shot to vogue and develop professional systems which can supply recommendation for physicians and patients to facilitate the designation and advocate treatment of patients. This review paper presents a comprehensive study of expert system for identification of depression , anxiety , stress . It provides a brief outline of medical diagnostic masterful systems associated presents associate degree analysis of already existing studies.

Keywords: Expert System, Depression, Anxiety, Stress, Medical Diagnose.

I.   INTRODUCTION

Expert System is one in all the foremost common applications of computer science. it's a computer virus that simulates the choice associated actions of someone or an association that has specialist facts and knowledge in a very specific field. Normally, such a system contains a mental object containing accumulated expertise and a collection of rules for applying the mental object to every specific state of affairs. The key options of knowledgeable system square measure program, information illustration, inference, explanations etc. Expert system is a computer based software package designed to integrate the information and talent of an professional in a individual area and it is used for   conclusion support systems [12]. According to DSM(IV) means statistical studies, the most collective categories of psychological disorders were considered in the following figure[11]

The main focus of this paper is therefore to review the uses of expert System[12].technologies that are applicable to activities in psychological practice and research

II.   LITERATURE REVIEW

Ekong VE, Inyang UG, Onibere EA [1] Authors were proposed a decision support system to support specialists in the field of depressive diagnosis.

Luciano Comin Nunes, Plácido Rogério Pinheiro, Tarcísio Cavalcante Pequeno[2] proposed a study that make proactive decisions for implement measures constructed on early diagnosis of psychological diseases. Thus, this proposal for specific professional system association methods to maintenance the resolution and controlled representation of understanding in the construction rules.

Roderick K. Mahurin [3] has established a computer-based expert system to help diagnose depression and dementia. The system in this study includes features such as ease of use and voice recognition capability.

Gibbons RD, Weiss DJ, Pilkonis PA, Frank E, Moore T, Kim JB, Kupfer DJ [4] proposed a computerized program was established for diagnosing anxiety disorder .Authors described a online adaptive test hwhic based on multidimensional elements reply theory for anxiety.

Sahani Eshwarage and ADAI Gunesekara [5] recommended a web-based expert system that Offers an opportunity for personalized online advice, the service offered by the proposed system will be useful for both ordinary and disabled individuals.

Izzeddin A. Alshawwa, Mohammed Elkahlout, Hosni Qasim El-Mashharawi, Samy S. Abu-Naser[6] , proposed Expert System for Depression Diagnosis. It implemented by SL5 and forward chianing reasoning expert system depends upon rules, objects and produced appropriate result.

Subhagata Chattopadhyay [7] proposed a neuro-fuzzy model entailing of Mamdani's technique recorded onto a feed forward back propagation neural network. The main purpose of this system was to model the manual development of medical diagnosis of depression.

Oguoma, S.I., Uka, K.K., Chukwu, C.A. and Nwaoha, E.C. (2020), in this paper authors presented the design, execution of expert system for the diagnosis and treatment of mental disorders. For developments authors were used PHP,HTML,AJAX and MySQL.

Ali Mirzapour[10], described the design and implemented a psychology expert system which determined the level of stress in different individuals. This system developed by using MATLAB.

Dr. Ahmad A. Al-Hajji, Fatimah M. AlSuhaibani and Nouf S. AlHarbi[11], developed online practical rule-based expert system models for mental disorder diagnosis and sorting. For development JavaScript, PHP, HTML and CSS were used.

David D. Luxton [12] reviewed developments in artificial intelligence (AI) technologies and their existing and forthcoming applications in psychological exercise. He also reviewed Artificial Intelligence principals activities which contains clinical physical activity, treatment, psychological duty, and clinical judgment making.

Jabeen SH, Sandhu ME, Tahir F, Amadullah M, Noureen N, et al. [13]. Proposed an evaluation machine by using scientific ways so that an expert system can replace a physician. Especially this system for mental disorders like depression, anxiety and stress.

Hassan Ali Mohammadi Motlagh, Behrouz Minaei Bidgoli & Ali Akbar Parvizi Fard [14] ,designed a web-based expert system for diagnosing depression .This system used the fuzzy Delphi method by guessing and significance of depression signs.

III.   CONCLUSION

In this paper the author has explained to current review of foregoing work by various researchers in the field of expert system for diagnosis of depression and anxiety diseases. And the author has came out with conclusion that expert system are regularly ready to internment expert knowledge before it's lost, the Expert system can help in deciding, expert system also can assist doctors and Physician in complicated diagnosis, the expert system can communicate the important time knowledge for computerization in process control, the expert system are often prepared to diagnose a disease bases on series of questions With this conclusion the author has decided to develop an expert system for diagnosis of psychological disorder.

IV.   REFERENCES

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