Abstract

Heart disease prediction is treated as most complicated task in the field of medical sciences. Thus there arises a need to build a decision support system for detecting heart disease of a patient. Almost all system predicting heart disease use inputs from complex tests conducted in labs. In this project we are developing a system which will predict heart based on the risk factors such as tobacco, smoking, alcohol intake, age, family history, diabetes, hypertension, high cholesterol, physical inactivity, obesity. These common risk factors can be used effectively for diagnosis of heart disease[1]. System based on the such risk factors would not only help medical professionals but it would give patients a warning about the probable presence of the heart disease even before he/she visits a hospital or goes for costly medical checkups.

References

1. Dawan A, Sharma M, "Prediction of heart disease using a hybrid technique in data mining
New Improved Genetic Algorithm for Coronary Heart Disease Prediction

classification”, Computing for Sustainable Global Development (INDIACom), 2015 2nd
International Conference, - 11-13 March 2015

pressure monitoring for children with β-thalassemia major: a preliminary report”, US National
Library of Medicine National Institute of Health - 2013 Jul; 7

3. POONAM, PAWAR, DEEPALI VORA, “A Survey On Prediction of Heart Disease for
Diabetic Patients”, International Journal of Science, Engineering and Technology Research
(IJSETR) Volume 4, Issue 4, April 2015

4. S. Sudha, “Disease Prediction in Data Mining Technique – A Survey”, International
Journal of Computer Applications and Information Technology, ISSN: 2278-7720-
2013;2(1)17-21


6. Optimize by Generation, RapidMinor Studio Core,
http://docs.rapidminer.com/studio/operators/data_transformation/attribute_space_transformation/
generation/optimization/optimize_by_generation_yagga.html

7. Game Development, using chromosomes to go from input to output in Genetic Algorithm,
http://gamedev.stackexchange.com/questions/96708/using-chromosomes-to-go-from-input-to-o

Algorithm", International Journal of Innovations in Engineering and Technology (IJIET)

9. T. Santhanam and E. P. Ephzibah "Heart Disease Prediction Using Hybrid Genetic Fuzzy

10. Kristian Guillaumier, "Generic Chromosome Representation and Evaluation for Genetic
Algorithms”

MINING APPROACH FOR HUMAN HEART DISEASE PREDICTION", International Journal of
Computer Engineering and Technology (IJCET), Volume 5, Issue 6, June (2014)

12. Ibrahim Umar Said, Jamila M. Muhammad, Manoj Kumar Gupta," Intelligent Heart
Disease Prediction System by Applying Apriori Algorithm", International Journal of Advanced
Research in Computer Science and Software Engineering, Volume 5, Issue 9, September 2014

Index Terms

Computer Science
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Keywords

Genetic Algorithm, Coronary Heart Disease, Prediction