CS 514
Applied Artificial Intelligence
Project 3
Codename - Purple

HEALTH RISK PREDICTION SYSTEM

(Predicts risk for health in the next 10 years based on user health data)

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Note: *Suitable links have been provided for additional information wherever necessary in RULES AND DESCRIPTION.*

ABSTRACT

Health Risk Prediction system is a probabilistic inference system that assesses the probability of a patient having a heart related disease and diabetes. The system considers numerous symptoms and builds a Bayesian Network on the basis of that. The symptoms for heart diseases and diabetes are categorized into three main parts viz. less critical symptom, medium critical symptoms and very critical symptoms. The conditional probability tables of these are generated by individual root node symptoms that can be directly observed by a physician. Many of the symptoms are qualitative and it is not possible to quantify it because of which existence of a probabilistic system is highly beneficial.

The relationships between various stages can be clearly represented by the Bayesian Network.

RULES AND DESCRIPTION

USAGE MANUAL

INSTRUCTIONS:

Copy the file HealthDiagnostics_bayseian.dne in any location and open the file in Netica. Compile the network and input values by clicking on all the root node to see the changes flowing through the Bayesian Network.