

Eye-diseases Diagnosing System Using Bayesian Network

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PROJECT NAME: EYE-DISEASES PREDICTOR

DESCRIPTION:

Eye-diseases predictor is a Bayesian network based application that predicts an individual's chance of getting an eye-disease by assessing presence or absence of symptoms of various eye-diseases and determines if the individual has an eye-disease. The application is developed using Netica.

These diseases can be detected by looking for various symptoms and we calculate their probability by using probabilistic reasoning.

All these symptoms are thus analyzed by the system which in the end gives an output whether the individual suffers from an eye-disease or not

USAGE MANUAL:

Download and place the "zaemon.dne" file in any directory and open it through NETICA application. Compile the project and after the network is initialized, modify and set the values accordingly and see how the network adapts to the change robustly and follows the trend as correctly as possible.

Note: There may arise a situation where the application throws an "Inconsistency" error. This might be an error programmatically, but it is intentional and logical. The error is thrown when one tries to toggle any symptom to "Absent" but tries toggling the eye-disease it leads to "Present". This is not possible since it defined that if any one of the symptoms is absent, the eye-disease it leads to will be absent. Hence, the notion behind it is correct.

BAYESIAN NETWORK:

