

Decision Support System for Dengue Detection based on Vital Signs and Blood Profile

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Declaration

I hereby declare that this project report entitled “Decision Support System for Dengue Detection based on Vital Signs and Blood Profile” contains my own work and has not been submitted and will not be submitted in any form for another degree or diploma at any university or other institution of tertiary education. Information derived from the published or unpublished work of others has been acknowledged in the text and a list of references is given.

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ABSTRACT

The primary focus of this research study goes to the decision support system for dengue detection based on vital signs and blood profile using data mining techniques. This study sought to analyze the best data mining techniques which can be used to detect the dengue stage and suggest the decisions according to the situation.

This research based on research paradigm, Cased-Based Reasoning (CBR) to develop a web application to manage dengue illness. Identified the essential cases related to Dengue and recognised the rules which are related to those cases. This system generated suggestions will help doctors to quickly identify the current situation of the patient and do proper treatments to the patient. The system will help to reduce the number of Dengue death in Sri Lanka.

Keywords: Dengue management, Case based reasoning, Dengue shock syndrome

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