

SECURED HEALTH MONITORING SYSTEM USING BIG DATA ANALYTICS ENHANCED ALGORITHM

A PROJECT REPORT

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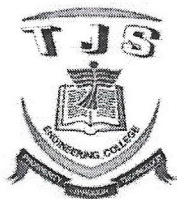
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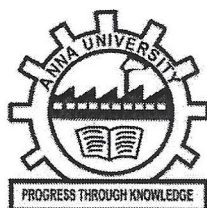
BACHELOR OF ENGINEERING

In

COMPUTER SCIENCE AND ENGINEERING



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BONAFIDE CERTIFICATE

Certificate that this project report "SECURED HEALTH MONITORING SYSTEM USING BIGDATA ANALYTICS WITH ENHANCED ALGROTHIM" is the bonafide work of the following students.

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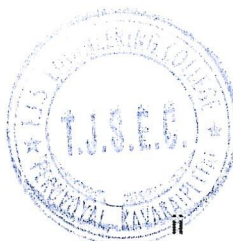

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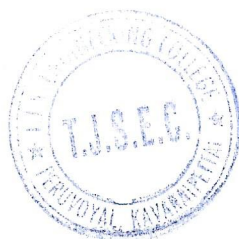

INTERNAL EXAMINER




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ABSTRACT

The strength of Healthcare Network, every day generate huge volume of streaming data (referred by "Big Data"), where insight information has a potential importance if collected and aggregated effectively. Nowadays, there is a great treat added to Healthcare large volume of data than it appears at first, and extracting the useful information in an excellent manner pose a system toward a important computational challenges, such as to examine, aggregate, and accumulate, where data are aggregated and collected. In this paper, we propose streaming Big Data analytical architecture for healthcare sensing data application. The proposed architecture comprises three main units, such as 1) Cloud Data Processing (CDP); 2) Big-data Storage Unit (BSU); and 3) Big-data Retrieval Unit (BRU). First, CDP obtain data from the HDFS sends this data to the data node , where initial processing takes place and initialize the load basic parameters(Virtual machine, cloudlets, MIPS, RAM ,etc) and allocated appropriated Virtual machines. Second, BSU plays a important role in architecture for effective processing of streaming Big Data by providing removing unwanted data (filtering), and balancing, and parallel processing. Third, BRU is the upper layer unit of the architecture, which is responsible for compilation, storage of the results, and generation of decision based on the results(patients location, information and snapshots of objects) received from BSU. The proposed architecture has the capability of separating, load balancing, and piiiirallel processing of only generation of Healthcare's data. Furthermore, the proposed architecture has the capability of storing incoming raw data to perform cloud analysis (Clients and HDFS data) on largely stored dumps, when required. Finally, a detailed analysis of healthcare observatory Big-Data for information using HDFS and MapReduce. Experimental comparison results of the two algorithms (ECDSA, Proposed ECDSA) were presented and analyzed. The results is show that ECDSA is more suitable to generate the signature.




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