EVALUATING DISEASE FROM SEVERAL MEDICAL DATA BY USING HL7

Vinitha.S[1], Juvi Raju[2], Priyanka.J[3], Hemalatha.S[4]

[1]Assistant Professor, Department of Computer Science and Engineering, Peri IT, Chennai, India
[2,3,4]UG Scholar, Department of Computer Science and Engineering, Peri IT, Chennai, India
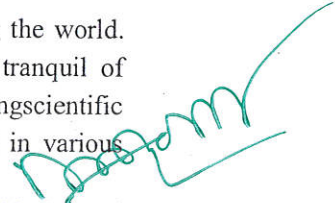
ABSTRACT:

To furnish a detailed analysis on the healthcare data in HL7(Health Level 7) by utilizing Big data analytics and to create disease prediction system as the healthcare sector is considered as one of the important industries in information technology. In the past few years, healthcare data has become more complex with huge amount of data related to ever growing and changing technologies, mobile applications and discovery of new diseases. The belief of healthcare sectors is that healthcare data analytics tools are important to manage a large amount of complex data, to improve healthcare industries, efficiency and accuracy in medical practice. Information technology is a boon for the healthcare sectors to upgrade their efficiency in healthcare performance availing the provided data and information.The concept of big data though not new is constantly changing with attempts of defining big data and inventing newer hardware and software mechanisms to store, analyse and visualize the data in keeping with the requirements of collection of data elements as per the requisite size, speed and type. Velocity, variety and volume are the three innate aspects of the data produced. Furthermore, each of these data repositories is isolated and inherently incapable of providing a platform for global data transparency.

Keywords: Health Level 7 (HL7), Healthcare, Hadoop Distributed File System (HDFS), Deep Analysis.

[1] INTRODUCTION

Medical is no exception in the field of big data. Technology has been changing the world. Medical providers such as medical institutions, labs contain data systems that are tranquil of multiple, distributed applications. HL7 is a data transposing message standard for movingscientific and administrative information among medicalapplications. Patient details are stored in various

Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.