Analytics for hospital healthcare data

Literature Survey

S.no	TITLE	AUTHORS	OBJECTIVE
1.	Data Visualization and Predictive Analysis for Smart Healthcare: Tool for a Hospital	Amala Menon; Aishwarya M S; Anu Maria Joykutty Asna Yusafali Av	The application supports the upload of files that are the source for the visualizations and provides interactive visualizations based on the analysis performed. The visualizations can be exported as images using the application.
2.	Data Analytics and Predictive Modeling for Appointments No-show at a Tertiary Care Hospital	Amani Moharram; Saud Altamimi; Riyad Alshammari	Analyzed a dataset that consists of 101,534 scheduled appointments for 35,290 pediatric patients. No-shows over the mentioned period was 11,573 for 8,105 patients. Three machine-learning algorithms, namely logistic regression, JRip, and Hoeffding tree, were compared to find the best one.
3.	30 day hospital readmission analysis	Ratna Madhuri Maddipatla; Mirsad Hadzikadic; Dipti Patel Misra; Lixia Yao	Used statistical and machine-learning methods to analyze the Nationwide Inpatient Sample dataset provided by HCUP (Healthcare Cost and Utilization Project) to identify various clinical, demographic and socio-economic factors that play crucial roles in predicting the revenue loss due to readmissions.
4.	Evaluation of an Intelligent Edge Computing System for the Hospital Intensive Care Unit	Serge Ismael Zida;Yue-Der Lin;Cheng Lin Lee;Yi Lun Tsai	Designed a Raspberry Pi-based edge computing system to computer-intensive care unit (ICU) data at the periphery of the network to offload the hospital cloud platform. ICU medical data were simulated from the PhysioNet MIMIC III database and transferred to the edge platform for computation and identification of emergency cases that were then sent to the cloud level.