**ANALYTICS FOR HOSPITALS HEALTH-CARE DATA**

**Abstract:**

The aim is to develop an application to accurately predict the length of stay for each patient on case by case basis so that the hospitals can use this information for optimal resource allocation and better functioning. In recent times due to the pandemic many people suffered to lack of sufficient facilities. The health-care facility also suffered due to the rise in the number of cases. Due to the rise in the number of cases the patients could not find the hospital bed to get the required treatment. The most important thing that was lacking is , data analysis for hospital wise, if it very tedious task to maintain the registry or manual workbook for the availability check and patient health record. To optimize it and make it more enchance, digital data has to be collected and it should be available for the respective persons and public to check the availability or services they are looking for. To make the real-time data analysis, we are proposing the web app with intriguing dashboard and analysis on the patient data. And add to that, it gives us a full-fledged analysis on the hospital data regarding the patient health conditions and case study analysis, which can result in the enormous amount of growth in the health-care industry to analyse the health-care data. IBM Cognos analytical tool has been used to make the analysis and create the interactive dashboard to make the real-time analysis on the incoming data from the database. The scope of this project is to make the intuitive dashboard, report and story to present it to the user’s perspective to understand it more better. Apart from length of the stay for each patient, it is used to analyse the age-wise patient by department, number of patient by ward using the various plots and charts.