

Project Design Phase-I

Proposed Solution

Team ID: PNT2022TMID48593

Project: Analytics For Hospitals Health-Care Data.

S.NO	PARAMETER	DESCRIPTION
1	Parameter Description 1. Problem Statement (Problem to be solved)	parameter helps hospitals to identify patients of high LOS risk (patients who will stay longer) at the time of admission. Once identified, patients with high LOS risk can have their treatment plan optimized to minimize LOS and lower the chance of staff/visitor infection. The task is to Accurately predict the Length of Stay for each patient on a case by case basis so that the Hospitals can use this information for optimal resource allocation and better functioning. The length of stay is divided into 11 different classes ranging from 0-10 days to more than 100 days.
2	Idea/ Solution description	Reduce patient Length of hospital stay: Implement Process Changes.A Critical part of improving LOS is using data to understand and improve processes that directly affect a patients LOS. Remove Discharge Barriers. Improve Care Transitions.
3	Novelty/ Uniqueness	Understanding of the factors associated with LOS of the COVID-19 patients may help the care providers and the patients to better anticipate the LOS,optimize the resources and processes,and prevent protracted stays.
	Social Impact/ Customer Satisfaction	Satisfaction can be improved through variables such as reliability,empathy and responsiveness,and the loyalty of patient.
5	Business Model (Revenue Model)	(I)It can be collaborated with diagnosis centers and hospitals. (ii)It can be collaborated with government for health awareness camps.
6	Scalability of the solution	Optimal resources utilization . Predicting hospital length of stay(LOS) for patients with COVID-19 infection is essential to ensure that adequate bed capacity can be provided without unnecessarily restricting care for patients with other conditions.

