

**ANALYTICS FOR HOSPITAL'S  
HEALTH-CARE DATA  
PROJECT DESIGN PHASE I**

**SUBMITTED BY**

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## PROPOSED SOLUTION TEMPLATE

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Project Name	Analytics for Hospital Health-Care Data
Team ID	PNT2022TMID48122
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### PROPOSED SOLUTION TEMPLATE:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To predict the length-of-stay for each patient at time of admission
2.	Idea / Solution description	The goal is 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.
3.	Novelty / Uniqueness	The most important aspect of this work was how the patient diagnoses played a more important role than age when predicting the length-ofstay. The prediction model would become more accurate with this optimization, as there were enough admission records in the dataset to support reasonable diagnoses model training.

4.	Social Impact / Customer Satisfaction	Predicting length of stay (LOS) is beneficial to patients and the health service. Once the patient knows the length of stay they can be prepared in all the ways. They can be ready with hospital expenditure once they know the LOS.
5.	Business Model (Revenue Model)	As it is an efficient method for predicting patient stay it will be sold large in market which leads to huge profit.
6.	Scalability of the Solution	This system provides the prediction of LOS which yield a more reliable estimate of the LOS.