Project Design Phase-I

Proposed Solution

Date	24 September 2022
Team ID	PNT2022TMID07721
Project Name	Analytics for Hospitals' Health-Care Data
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Hospital Management are facing issues due to wrong prediction of patient's stay when leads to rush and unable to treat the patients according to there illness. If the admitted patients stay is predicted before then this problem can be reduced
2.	Idea / Solution description	Predicting the stay of the admitted patients and detecting their seriousness in their health condition (whether those patients need to stay for long period or not). This can be done using data analytics which can be implemented using prediction analysis using machine learning algorithms such as decision tree, navies bayes theorem.
3.	Novelty / Uniqueness	In existing system, we are unable to predict the length of the stay due to various levels of parameters which are missed out. In this model there can be 11 or more categories where each patient is categorised which can determine the length of stay of each category which can help in providing enough hospital resources by proper prediction analysis.
4.	Social Impact / Customer Satisfaction	While implementing this idea we can reduce the waiting time for each patient who are newly admitted into the hospital which will indirectly reduce the cause of death or serious issues (when the attendee can attend the new patient at the right time). Also, this can improve the efficiency of the hospital management considering in overall.
5.	Business Model (Revenue Model)	Since it will increase on time attending without waiting for the newly admitted patients with improved hospital management efficiency it can improve the hospital's reputation as well as reduces the wastage of hospital resources. Considering these remarks, it can pre dominantly increase the overall revenue of the hospital management.

6.	Scalability of the Solution	Even though there are many differences in bringing computer science technology into the field of hospital data, we were able be see the progress in the overall process which is convenient from the hospital management point of view as well as the patients who are admitted in the hospital. This model is feasible in all matters which satisfies all the conditions and needs in all verticals. Data analytics can predict the data that is required which can make the hospital management to adapt to the upcoming situations.