**PROBLEM STATEMENT**

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. The length of stay is divided into 11 different classes ranging from 0-10 days to more than 100 days.

| Who does the problem affect? | Data Scientics of Health man was faced the problem of collecting the Length of Stay(LOS). |
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| What are the boundaries of the problem? | In Hospital to identify patients of high LOS-risk(patient who will stay longer) at the time of admission. |
| What is the issue? | When it comes to big data analytics, the healthcare industry faces issues like security,visualization,and a wide array of data integrity concerns. |
| When does the issue occurs? | At the time of poor network, losing of some patient data, missing of records, wrong information of patient data. |
| Where is the issue occurring? | Collecting data in written form and verbally, Collecting data via a third party, Lack of quality assurance processes. |
| Why is it important that we fix the problem? | Once identified, patients with high LOS risk can have their treatment plan optimized to minimize LOS and lower the chance if staff/visitor infection. Also,prior knowledge of LOS can aid in logistics such as room and bed allocation planning. |