**Problem statement** –

The goal of this project is to observe accurately the Length of Stay for each patient so that the hospitals can optimize resources and function better.

**Overview of Data**

The data consist of 318438 observations from 17 variables.

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| **Variables** | **Description** |
| case\_id | Case\_ID registered in Hospital |
| Hospital\_code | Unique code for the Hospital |
| Hospital\_type\_code | Unique code for the type of Hospital |
| City\_Code\_Hospital | City Code of the Hospital |
| Hospital\_region\_code | Region Code of the Hospital |
| Available Extra Rooms in Hospital | Number of Extra rooms available in the Hospital |
| Department | Department overlooking the case |
| Ward\_Type | Code for the Ward type |
| Ward\_Facility\_Code | Code for the Ward Facility |
| Bed Grade | Condition of Bed in the Ward |
| patientid | Unique Patient Id |
| City\_Code\_Patient | City Code for the patient |
| Type of Admission | Admission Type registered by the Hospital |
| Severity of Illness | Severity of the illness recorded at the time of admission |
| Visitors with Patient | Number of Visitors with the patient |
| Age | Age of the patient |
| Admission\_Deposit | Deposit at the time of Admission |
| Stay | Patient Length of Stay |

**Analysis Questions**

* **Smart Staffing & Personnel Management**
* **Advanced Risk & Disease Management**
* **Classifying the departments by revenue generations**