

## Data Collection and Preprocessing Phase

Date	June 25 2024
Team ID	team-739669
Project Title	Hospital Readmission Prediction Using Machine Learning
Maximum Marks	2 Marks

### Data Collection Plan & Raw Data Sources Identification Report:

Elevate your data strategy with the Data Collection plan and the Rw Data Sources report, ensuring meticulous data curation and integrity for informed decision-making in every analysis and decision-making endeavor.

### Data Collection Plan:

Section	Description
Project Overview	The machine learning project aims to predict hospital readmission based on patient information. Using a dataset with features such as gender,age,number_outpatient,number_inpatient,number_emergency,number_daignoses, the objective is to develop a machine learning model that accurately predicts whether a patient is likely to be readmitted to the hospital within a specified time frame after discharge.
Data Collection Plan	<ul style="list-style-type: none"> <li>● Search for datasets related to hospital readmission prediction.</li> <li>● Prioritize datasets with diverse demographic information.</li> </ul> <p>By following this data collection plan, healthcare organizations can effectively gather, preprocess, and utilize data to develop accurate predictive models for hospital readmission, thereby enhancing patient care and resource allocation.</p>

Raw Data Sources Identified	The raw data sources for this project include datasets obtained from Kaggle ,the popular platforms for data science competitions and repositories. The provided sample data represents a subset of the collected information, encompassing variables such as gender,age,number_diagnoses,readmitted,diag_1,diag_2,diag_3, number_outpatient,number_inpatient,number_emergency.
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### Raw Data Sources Report:

Source Name	Description	Location/URL	Format	Size	Access Permissions
Kaggle Dataset	The dataset comprises patient details (gender, age) and number_inpatient, number_outpatient, number_diagnoses, number_emergency , readmitted.	HYPERLINK "https://www.kaggle.com/datasets/abhishekvats95/hospital-readmission-prediction-using-diabetes" \h <a href="https://www.kaggle.com/datasets/abhishekvats95/hospital-readmission-prediction-using-diabetes">https://www.kaggle.com/datasets/abhishekvats95/hospital-readmission-prediction-using-diabetes</a>	CSV	15 kB	Public