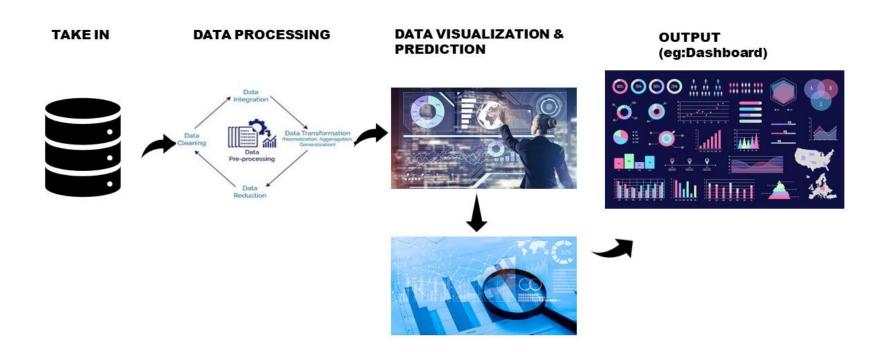
## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	14 October 2022
Team ID	PNT2022TMID54247
Project Name	ANALYTICS FOR HOSPITALS' HEALTH- CARE DATA
Maximum Marks	4 Marks

## **Technical Architecture:**



**TEAM ID: PNT2022TMID54247** 

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user interacts with application using Web UI	HTML, CSS, JavaScript
2.	Data Processing	The data from the dataset is pre-processed	IBM Cognos Analytics
3.	Cloud Database	The clean dataset is stored on IBM Cloud	IBM Cloud
4.	Data visualization	The data is visualized into different forms	IBM Cognos Analytics, python
5.	Prediction	ML algorithms are used for predicting the length of stay	ML algorithms – Fuzzy Logic, Tree Bagger, Random Forest, Decision Tree

## **Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Open-source frameworks used	IBM Cognos Analytics, Python
2.	Security Implementations	Request authentication using Encryptions	Encryptions
3.	Scalable Architecture	Scalability consists of 3-tiers	Web Server – HTML, CSS, Java script Application Server – Python
4.	Availability	The application is available for cloud users	IBM Cloud Hosting
5.	Performance	The user can know the prolonged period of stay	ML algorithms