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

Date	17 October 2022
Team ID	PNT2022TMID47228
Project Name	University Admit Eligibility Predictor
Maximum Marks	4 Marks

Technical Architecture:
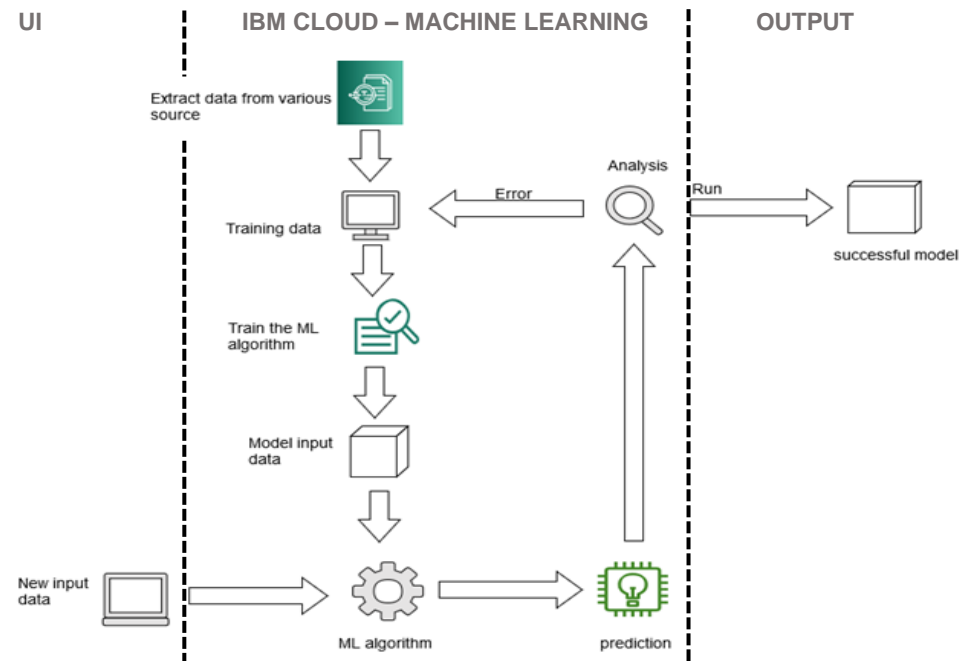
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User can interacts with web application.	HTML, CSS, JSP etc.
2.	Application Logic-1	User register our details to login our account.	Python(Jupyter)
3.	Application Logic-2	For this user information predict the output using machine learning models.	Python, IBM Watson Assistance
4.	Database	List of University Names, list of Courses Names and it's details.	MySQL, NoSQL, etc.
5.	Machine Learning Model	To predict the accurate results	KNN, Random forest, Decision tree etc.
6.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration:i3 -8th gen Cloud Server Configuration : i9 -13th gen	Local, Cloud, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Python for backend purpose and Flask for front end.	Python(flask)
2.	Security Implementations	To user profile more secure	Encryptions, IAM Controls, etc.
3.	Scalable Architecture	To accurate list of eligible universities name and it's description will be provided.	Random Forest ML Algorithm
4.	Availability	Anyone and any time they can visit our website.	IBM load balancer
5.	Performance	The user can have knowledge of their eligibility for applying university through our website.	Random Forest ML Algorithm