Project Design Phase – II

Technology Stack (Architecture & Stack)

Date	01 November 2022
Team ID	PNT2022TMID53372
Project Name	University Admit Eligibility Prediction System
Maximum Marks	4 Marks

Technical Architecture:

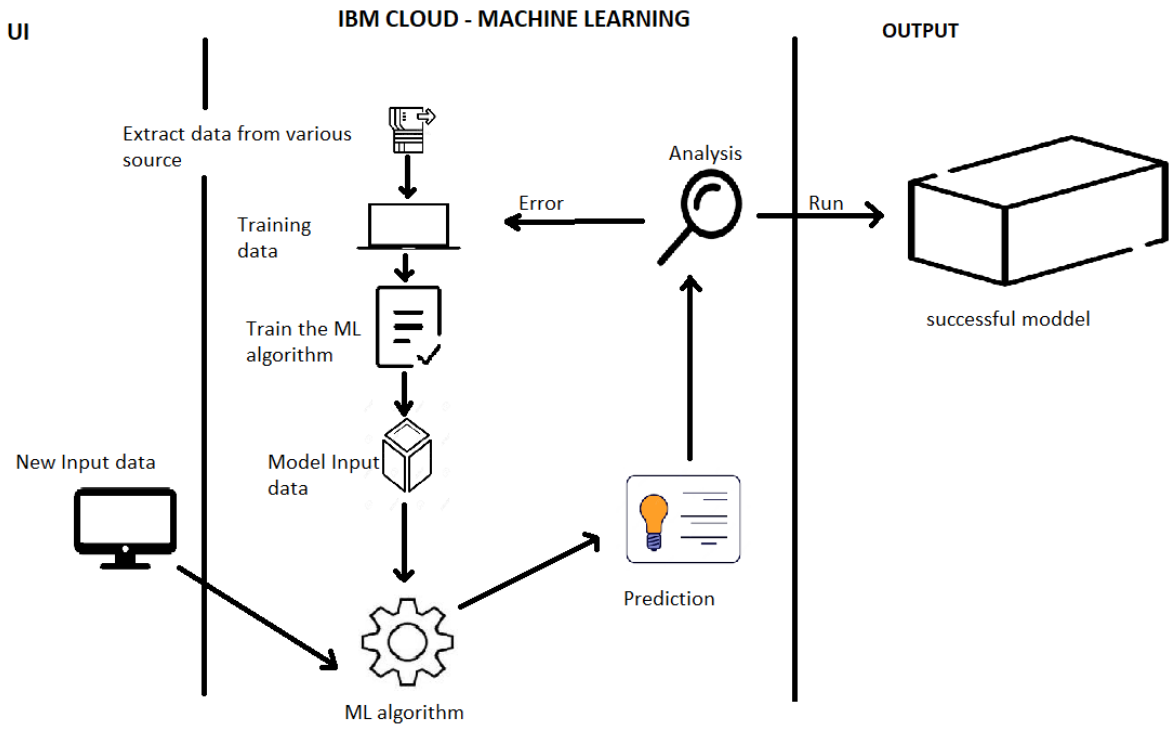

Table-1: Components & Technologies:

S. No.	Component	Description	Technology
1	User Interface	User can interact 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.	Csv file
5	Machine Learning Model	To predict the accurate results	Random forest, KNN
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.	Component	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