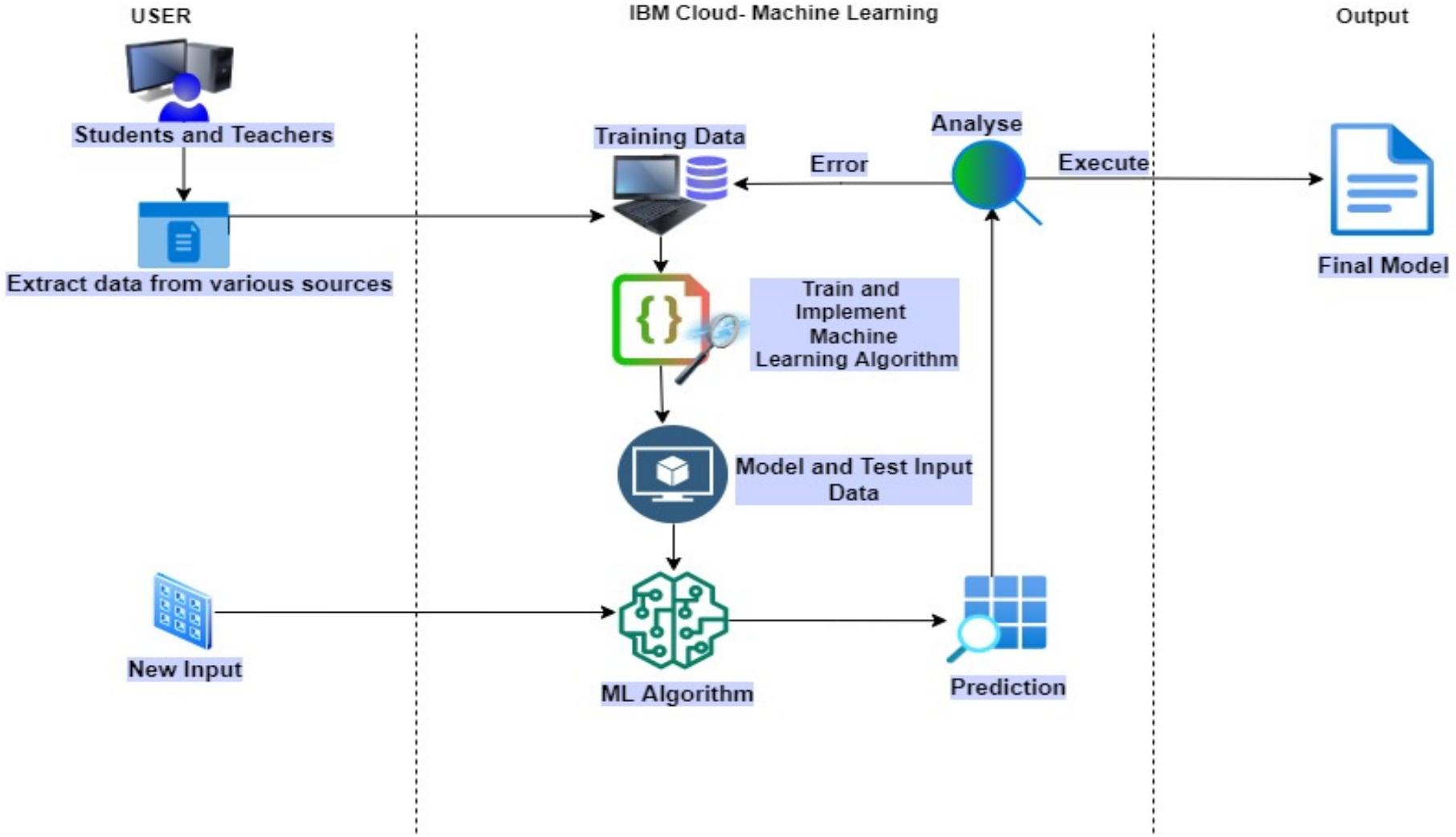
Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	16 October 2022
Team ID	PNT2022TMID11450
Project Name	University Admit Eligibility Predictor
Maximum Marks	4 Marks

Technical Architecture:



Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate interface to machine learning models
4. Include necessary machine learning algorithms
5. Indicate Data Storage components / services
6. Provide the list of all eligible universities along with its description

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI page, Mobile Application,Chat bot such as WP-Bot,Tel-Bot etc.	Python,HTML, CSS, JavaScript etc.
2.	Application Logic-1	Logic for a process in the application	Python (Jupyter Notebook)
3.	Application Logic-2	Logic for a process in the application	IBM Watson Assistant,IBM Cloud etc.
4.	Database	Data Type, Configurations etc.	CSV
5.	External API	Purpose of External API used in the application	List of eligible Universities
6.	Machine Learning Model	Purpose of Machine Learning Model	KNN, Random Forest, Decision Tree,Linear Regression etc.
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration :(During development stage) Cloud Server Configuration :(During development stage)	Local, Cloud etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Python for Back-end purpose(handles computation) Flask is imported for Front-end purpose(UI web-page)	Python(Jupyter lab) and Flask(Framework)
2.	Security Implementations	The user profile will be End to End secure in manner.	Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	The accurate list of eligible universities name and its description will be provided.	Random Forest Regression and Linear regression ML Algorithms
4.	Availability	Anyone and in anytime they can visit our website.	IBM Load Balancer
5.	Performance	The user can have a knowledge of their eligibility for applying Universities through our website.	Random Forest ML Algorithm