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

Date	03October 2022
Team ID	PNT2022TMID34821
Project Name	University Admit Eligibility Predictor
Maximum Marks	4 Marks

Technical Architecture:
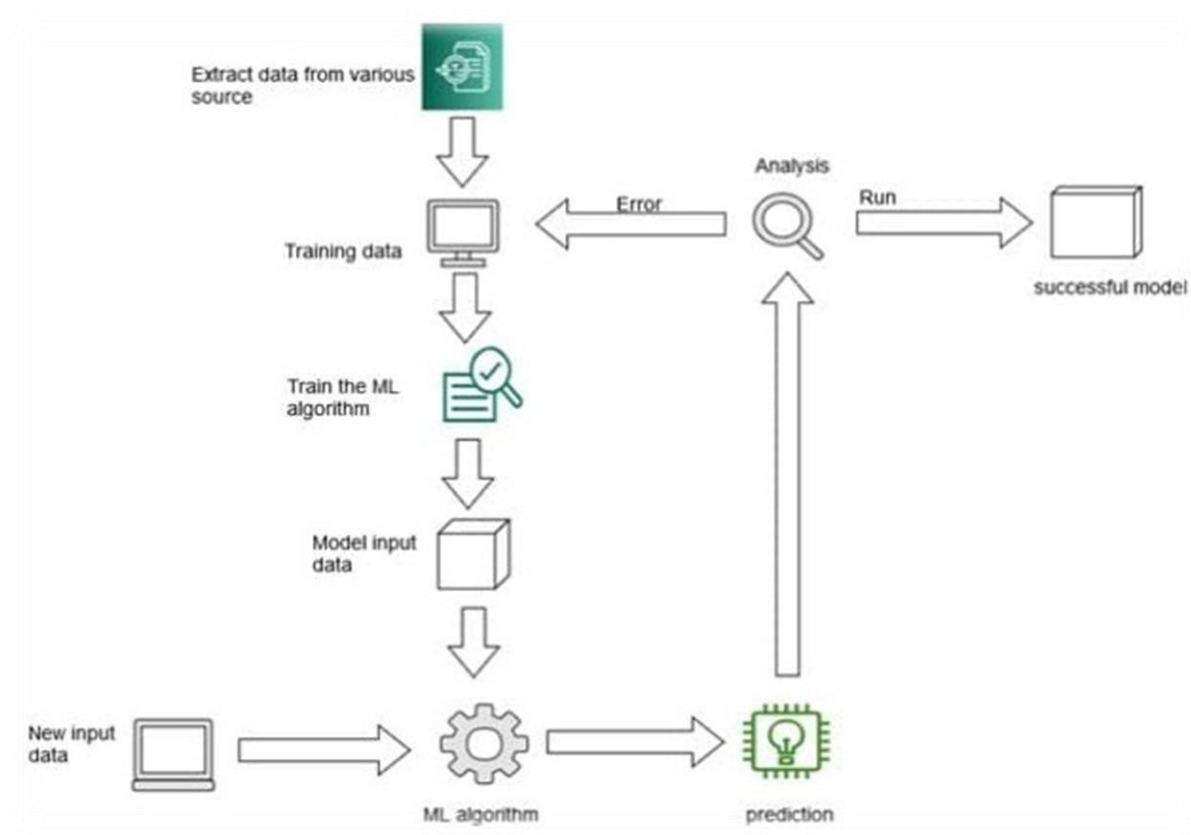
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson
4.	Database	Data Type, Configurations etc.	MySQL
5.	Cloud Database	Database Service on Cloud	IBM Cloud
6.	File Storage	File storage requirements	IBM Block or Local Filesystem
7.	External API-1	Purpose of External API used in the application	IBM API, etc.
8.	Machine Learning Model	Purpose of Machine Learning Model	Prediction Model
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python, Machine Learning.
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	SHA-256.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Web Server: HTML, CSS, Javascript Application Server - Python
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Machine Learning
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Machine Learning