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

Date	18 October 2022
Team ID	PNT2022TMID21492
Project Name	University Admit Eligibility Predictor
Maximum Marks	4 Marks

Team Members:

- 19IT021 – Dhanuja V
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Technical Architecture:
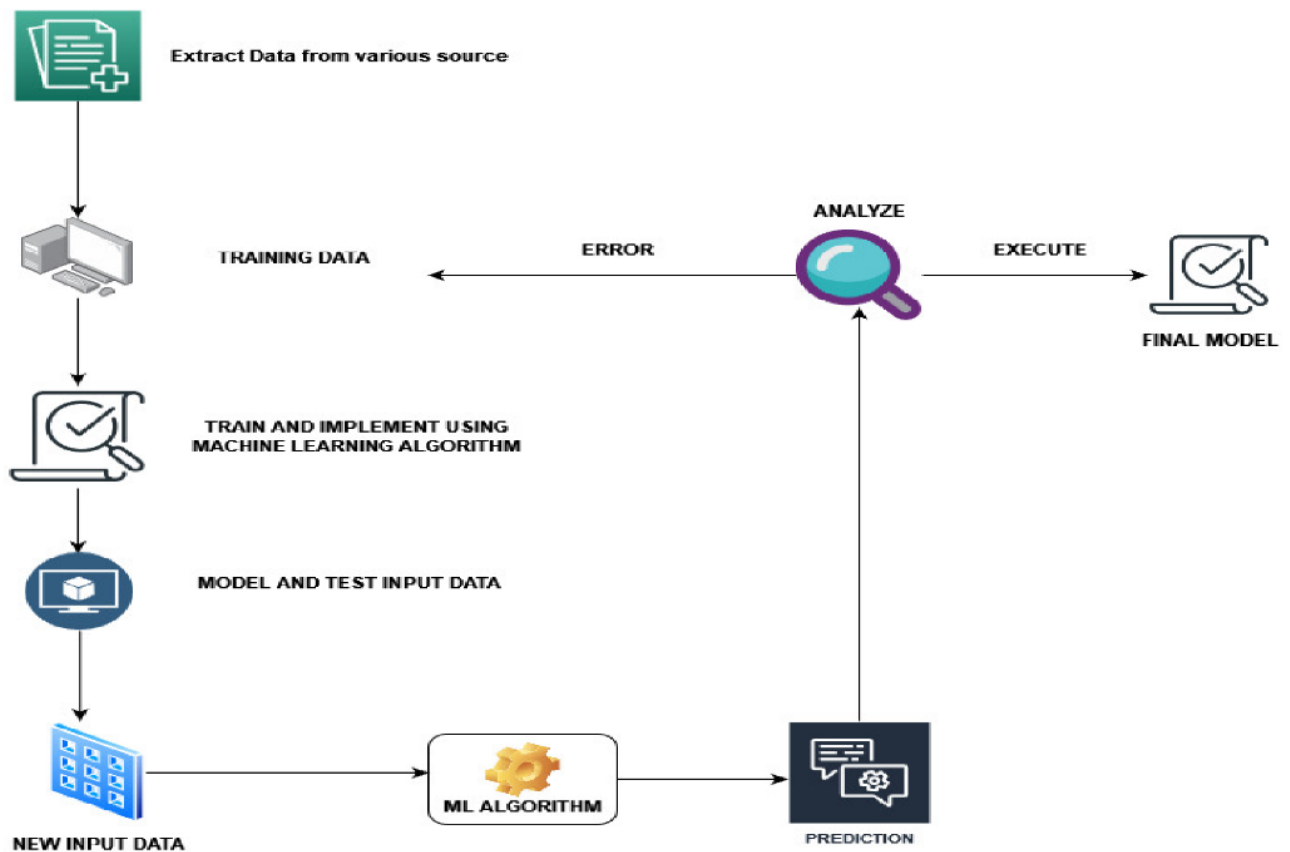
Table 1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interacts with the application through web app	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 AI service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data type, Configurations etc.	MySQL etc.
6.	File Storage	File Storage Requirements	IBM Block Storage or Local Filesystem
7.	External API-1	To get the login credentials of the user	MySQL
8.	Machine Learning Model	Purpose of Machiene Learning Model	Logistic Regression
9.	Infrastructure (Server /Cloud)	Web application should be deployed on Local System.	Local system server XAMPP

Table 2 : Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	A web application using Flask is created as an interface for the farmers to use.	Python flask framework
2.	Security Implementations	User login credentials and personal information should be kept secured.	e.g. SHA-256, Encryptions
3.	Scalable Architecture	The system should perform well under in an increased or expanding workload.	IBM auto scaling
4.	Availability	Functional quality of the web application will never get compromised; it will be available at	IBM cloud load balancer

S.No	Characteristics	Description	Technology
		every time.	
5.	Performance	The time it takes for the request and response is very less.	IBM instance