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

Date	October 2022
Team ID	IBM-Project-2951-1658488058
Project Name	University Admit Eligibility Predictor
Maximum Marks	4 Marks

Technical Architecture:

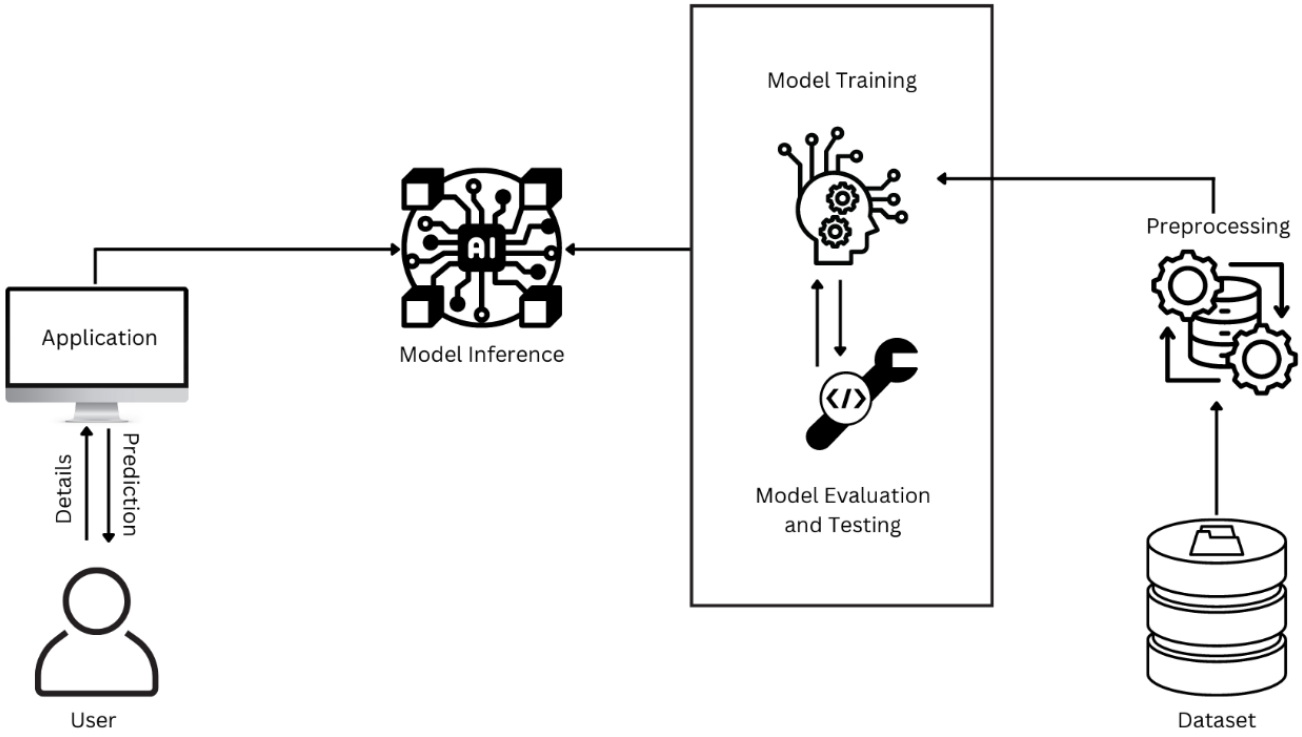

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The Front-End part of the application through which the user interacts with the application.	HTML, CSS, JavaScript.
2.	Application Logic-1	Logic for collection data from the user.	Python
3.	Application Logic-2	Integrating Machine Learning model on our application.	Python
4.	Application Logic-3	Logic for a process in application.	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud.	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements.	Local Filesystem
8.	Libraries	Import libraries into data	Numpy, Pandas etc.
10.	Machine Learning Model	Purpose of Machine Learning Model	Logistic Regression model.
11.	Accuracy	Accuracy of test and train data.	Root Mean Squared Error,Mean Squared Error.
11.	Infrastructure (Server / Cloud)	Cloud Local Server Configuration	Local

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Flask framework
2.	Security Implementations	User profile stored in a secure way.	Encryptions.
3.	Scalable Architecture	Effective way of computations.	Logistic Regression
4.	Availability	Our web application is available every time.	IBM Load Balancer.
5.	Performance	More effective performance.	Logistic Regression.

References:

https://c4model.com/

https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/

https://www.ibm.com/cloud/architecture

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