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

Date	10 November 2022
Team ID	PNT2022TMID50761
Project Name	University Admit Eligibility Predictor
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2
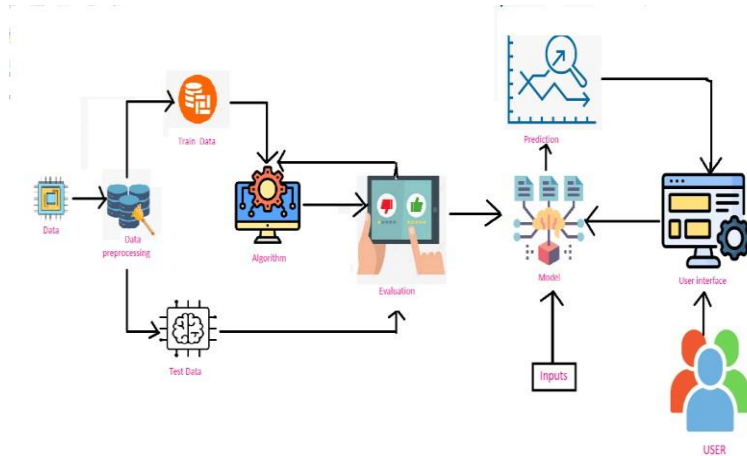
Guidelines:

1.   Include all the processes (As an application logic / Technology Block)

2.   Provide infrastructural demarcation (Local / Cloud)

3.   Indicate external interfaces (third party API's etc.)

4.   Indicate Data Storage components / services

5.   Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user interacts with application through the UI	HTML, CSS, JavaScript.
2.	Application Logic-1	Logic for collecting the input from the user.	Python
3.	Application Logic-2	Integrating machine learning model with our application.	Python
4.	Database	Numeric data.	MySQL.
5.	File Storage	To store file such as prediction report.	Local Filesystem
6.	Machine learning model	Predictive modelling is a mathematical process used to predict future events or outcomes.	Regression modelling
7.	Infrastructure (server /cloud)	Application Deployment on Local System Local Server Configuration : Built in flask web server.	Flask, web server

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Open source framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used

5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used