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

Date	11 October 2022
Team ID	PNT2022TMID24990
Project Name	University Admit Eligibility Predictor
Maximum Marks	4 Marks

Technical Architecture:

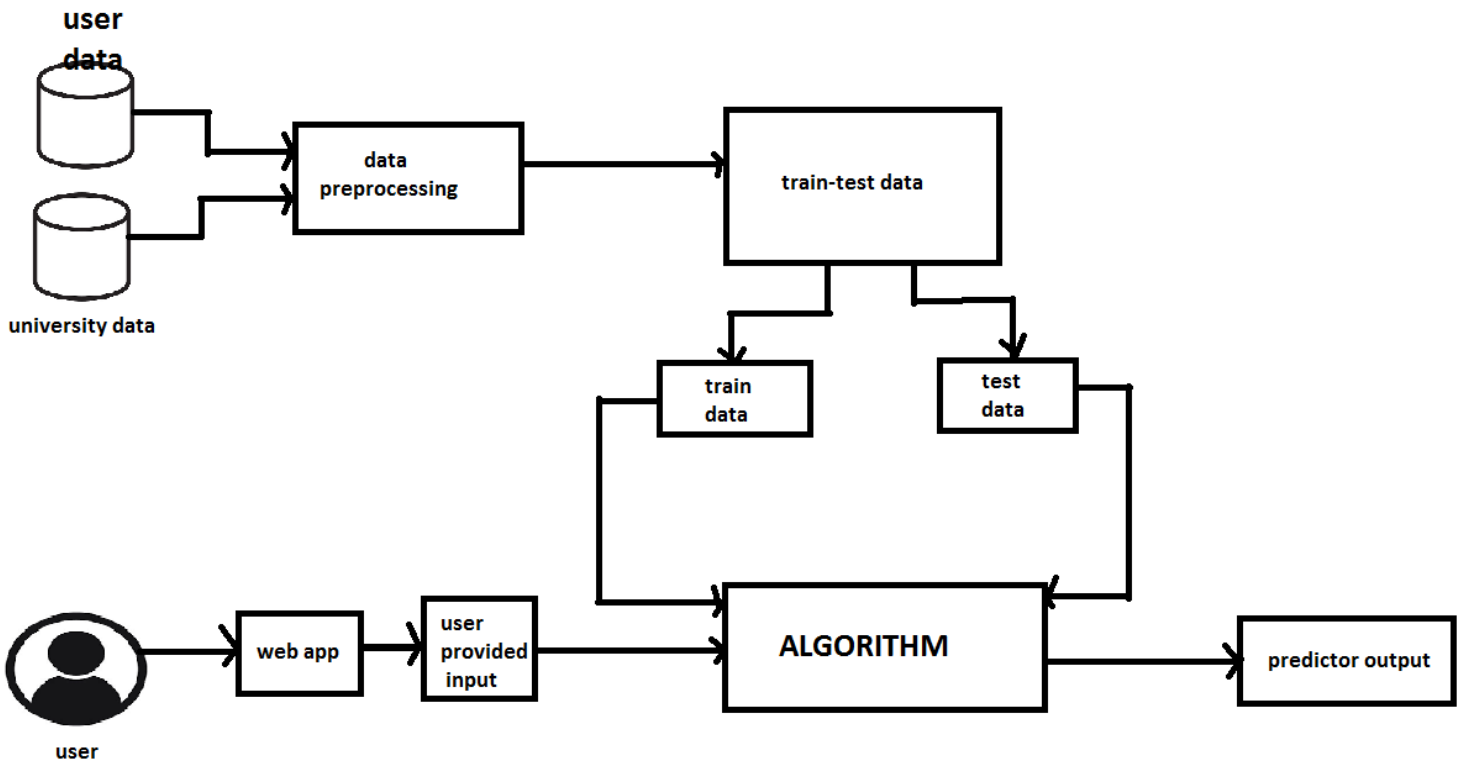
user data
university data
data preprocessing
train-test data
train data
test data
user
web app
user provided input
ALGORITHM
predictor output

Table-1 : Components & Technologies:

S.NO	COMPONENTS	DESCRIPTION	TECHNOLOGY
1.	User interface	The front end part of the application providing user data	HTML,CSS,JAVASCRIPT
2.	Application logic	The core process of application	Python
3.	framework	Used for implementing the codes	Flask
3.	Data base	Storing the student and university data	MYSQL, IBM cloud
4.	Data visualization	Graphical visualization of student data,past university acceptance	Matplotlib,Seaborn
5.	Cloud database	Storing data virutually	IBM DB2, IBM cloudant
6.	File storage	Storing the user’s SOP,LOR and others files	IBM cloud file storage or local storage
7.	Machine learning model	Model is used for prediction	Sklearn
8.	Infrastructure	Cloud server configuration for hosting the web app	IBM cloud hosting

Table 2: Application characteristics:

S.NO	Characteristics	Description	Technology
1.	Security implementations	Authenticating the user's information before predicting	Cloud authentication services,secure encryption scheme like SHA 256
2	Scalable architecture	The application is scalable .even if many number of users providing the data and that can be easily handled.the possibility of storage crashing is minimum	IBM cloud services
3	Availability	The app can accessed by anyone in anywhere.Since its stored in cloud	IBM cloud hosting and IBM load balancer
4	Performance	There will be a four different machine learning model like logistic regression,decision tree,random forest,linear regression	Scikit-learn