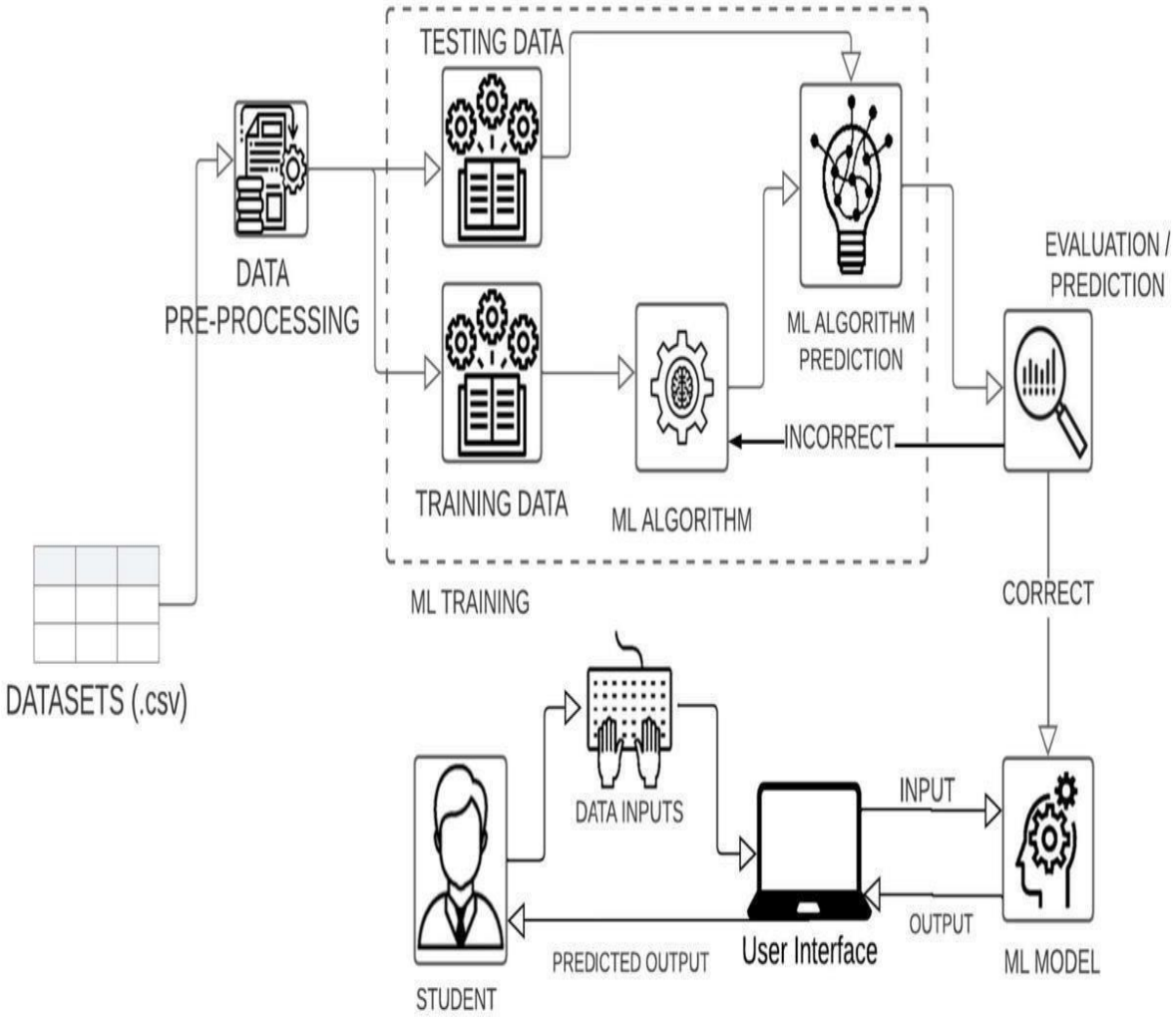
Technology Stack

Date	19 October 2022
Team ID	PNT2022TMID28385
Project Name	University Admit Eligibility Predictor
Maximum Marks	4 Marks

Technical Architecture:



Components & Technologies:

S.No	Component	Description	Technology

1.	User Interface	Web Application	Flutter
2.	Application Logic	By collecting and analyzing the datasets and other relevant details to help in training the model to predicts at maximum accuracy.	Machine learning using Python
3.	Database	To store and retrieval of necessary data.	MySQL, etc.
4.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
5.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
6.	Machine Learning Model	Regression models are used to target a prediction value which is based on independent variables. It is also used to calculate the relationship between any two quantitative variables. Classifiers also predict the target output based on various features.	Linear regression, Random forest, etc.
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System/Cloud Server. Local Server: HTTP Server Cloud Server: IaaS, SaaS	Local, Cloud Foundry, Kubernetes, etc.

Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flutter, apache, native script, etc.	Flutter
2.	Security Implementations	Store private data within internal storage, ensure different access levels to different users.	Web view objects, debugoverride, etc.
3.	Scalable Architecture	3 – tier, Micro-services	REST API