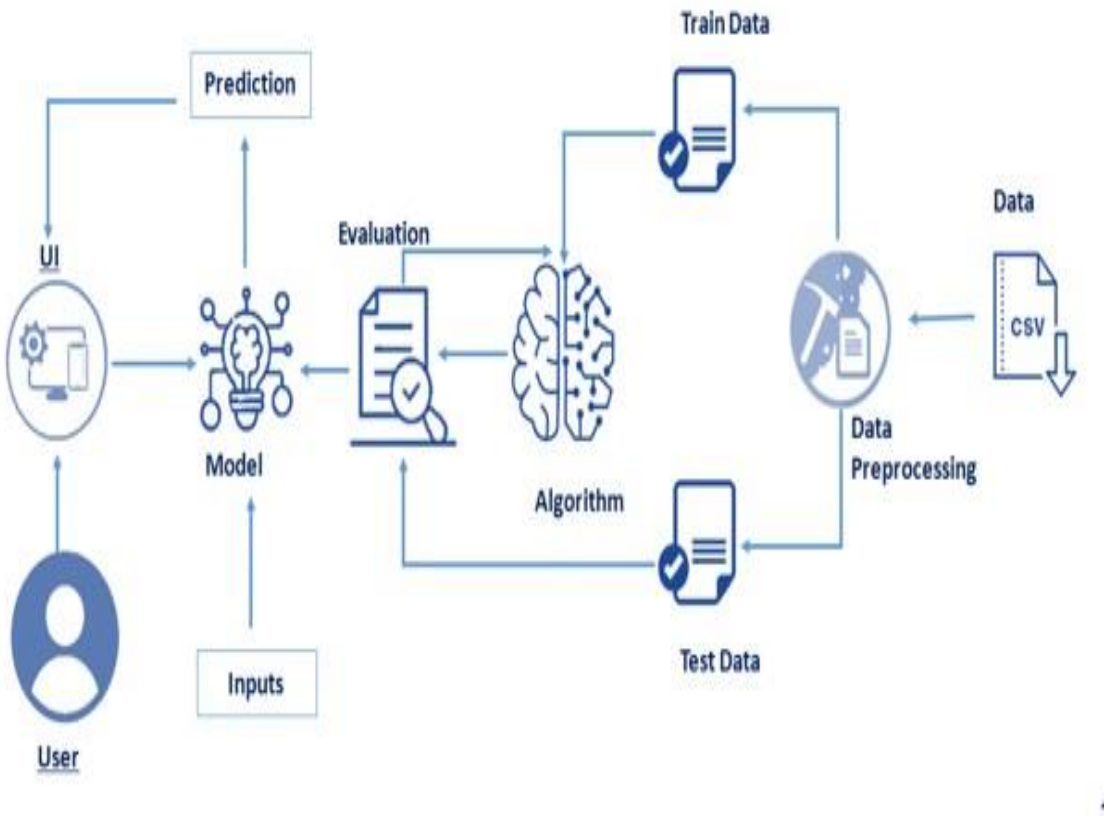
Technology Stack

Date	2 November 2022
Team ID	PNT2022TMID02482
Project Name	University Admit Eligibility Predictor

Technical Architecture:



Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web Application	flask
2.	Application Logic	By gathering and examining datasets and other pertinent information, it is possible to train a model to make predictions with the highest degree of 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 Cloud etc.
5.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
6.	Machine Learning Model	To target a forecast value based on independent variables, regression models are used. The link between any two quantitative variables is also computed using it. The target output is also predicted by classifiers based on a variety of features.	Linear regression, Randomforest, 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	Python Flask	flask
2.	Security Implementations	Store sensitive information internally and give different users access at different levels.	Web view objects, debug-override, etc.
3.	Scalable Architecture	3 – tier, Micro-services	REST API