Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	12 October 2022
Team ID	PNT2022TMID37875
Project Name	Project – **University admit eligibility predictor**
Maximum Marks	4 Marks

Technical Architecture:

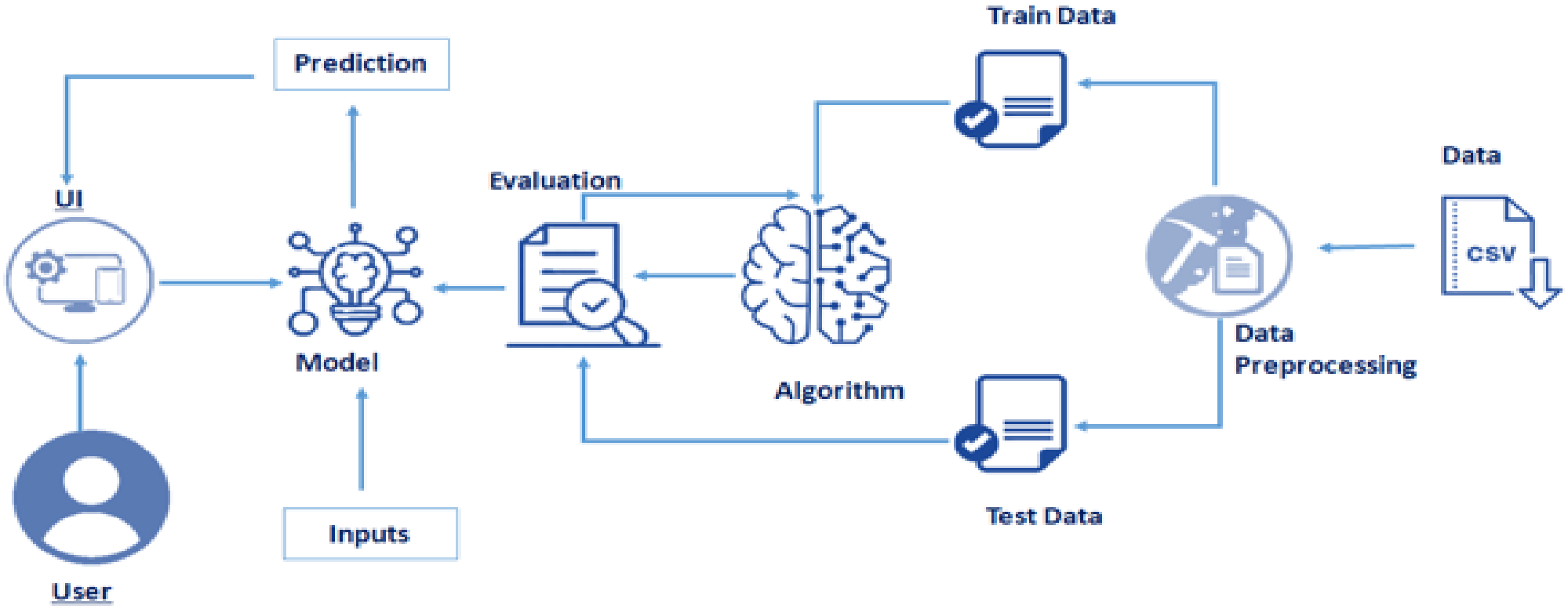

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application i.e; **Web UI, Mobile App, Chatbot etc.**	Applied **Data science**
2.	Application Logic-1	• **Registration** Visit the official University of website and click on the 'Start new admission' tab at the top of the landing page.	By network website to apply the university
3.	Application Logic-2	• On the following screen fill out the following fields: **Name, Session,Choice of exam centre,Aadhaar Number, Course applying for,Subject.** • **Date of birth,Gender,Nationality,Educational information,Email address,Mobile number.** • **Upload scanned images as per the specifications.** • Click on the **'submit'** on this screen to get to the next section.	By default **Upload scanned images as per the specifications**,.
4.	Application Logic-3	• Candidates will receive their application number, which they should note down for future correspondence with the university. Type in information about the national level test of UGC JRF, UGC NET, etc. **if applying for course**. • **Type in family particulars in this section of the application.** • **Educational Details**	**Apply**, future correspondence with the university. Type in information about the national level test.
5.	Application Logic-4	• **Details of employment if you're employed on the date of application.**	• **Details regarding permanent and correspondence address**

		• **Miscellaneous Details** • **Details regarding permanent and correspondence address** • **University of application payment** • **Preview and download of the University** • Convert the **output text into form filled application.**	• **University of application payment.**
6.	Database	• College Admission Predictor System is a web based application system in which students can register their marks along with their personal information. This helps to predict their admissions in colleges. Administrator can add the college details and the batch details.	• **Data science is used**
7.	File Storage	• **Create a login page for the filling application of storage** • **Sometimes referred to as a college application essay.** • **Personal statements are essays that give admissions officers insights into your character, personality and motivation.**	• Our application addresses this issue of the student admission community. • The application uses data mining and data analysis techniques
8.	Machine Learning Model	• **Allows the user to feed a computer algorithm an immense amount ofdata and have the computer analyze and make data-driven recommendations** and decisions based on only the input data	• The primary objective of this work is to make a Machine Learning model which could be utilized by understudies who need to seek after their education.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	• College Admission Prediction Based on their performance. Inputs like class 10 th marks, 12 th marks, AIEE rank has taken then predicted the best-suited college for them. • Use a random forest to predict the probability of being accepted into graduate programs.	• An admission prediction tool which helps you know your probabilities of admission into a particular university.
2.	Scalable Architecture	• **Scalable Architecture** toolkit targeting scalable graph learning, which supports deep graph learning on extremely large datasets. Scalable architecture allows users to easily implement scalable graph neural networks and evaluate its performance on various downstream tasks like node classification, node clustering, and link prediction. Further, Scalable Architecture supports auto neural architecture search functionality based on OpenBox. • **High scalability**: Following the scalable design paradigm **SA** is PaSca, SA can scale to graph data with billions of nodes and edges. • **Auto neural architecture search**: SA can automatically choose decent and scalable graph neural architectures according to specific tasks and pre-defined multiple objectives (e.g., inference time, memory cost, and predictive performance). • **Ease of use**: SA has user-friendly interfaces for implementing existing scalable GNNs and executing various downstream tasks. •	**PYPI Networks is used.**
3.	Availability	• The profile evaluation for MS is done based on a student's undergrad percentage/GPA, GRE, and TOEFL scores. This free profile evaluation tool helps you shortlist the right set of universities to apply to, so you can optimize your efforts in the quest of that dream admit.	**Data science models along with Speech assistant** is used.