Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation:

Government of Gujarat (Climate Change Department)

PS Code: **SIH1362**

Problem Statement Title:

Student Dropout Analysis For School Education

Team Name:**Team Excel**

Team Leader Name: **Anushka Singh**

Institute Code (AISHE): **U-0891**

Institute Name: **MIT ADT - SOC**   Theme Name: **Smart Education**
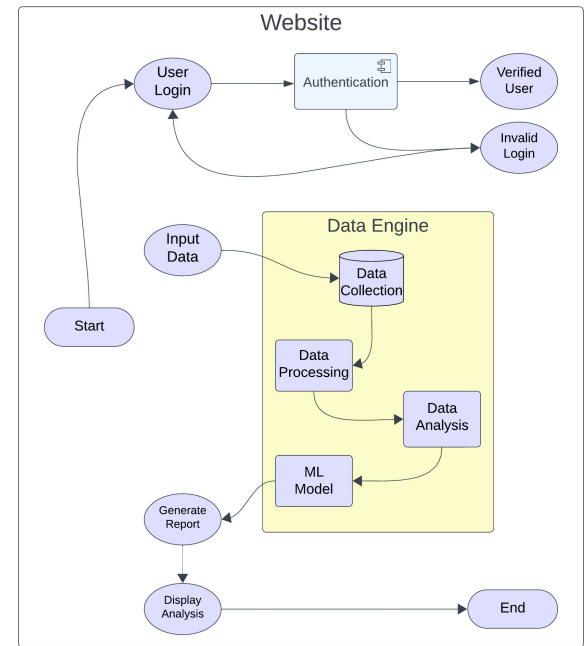
Idea/Approach Details

Describe your idea/Solution/Prototype here:

The main goal of this project is to use the available datasets to undertake an extensive investigation of student dropout rates in schooling by having a software that can analyze the data on various parameter and provide factual information that can be used to bring chances in the current policies and rules of the government The analysis aims to provide insights into the following key aspects:

- School Wise
- Gender Wise
- Area Wise
- Caste Wise
- Standard/Age Wise

We will have a Web Interface for the software which will monitor the dropout rates and will make data-driven decision on the basis of above parameters.

Technology stack here:

Idea/Approach Details

Use Cases here:

-> Government can use the website to analyze dropout rates and patterns based on **demographic** And **social-specific** factors.

-> School can access the data to **identify trends** in their dropout rates and take proactive measures to reduce them.

-> Parents can use the website to monitor their child's **performance, receiving alerts** if their child is at risk of dropping out.

-> Educational institutions can use this website to **plan interventions** such as after-school programs, counseling services, or **scholarship** initiatives for specific group at the risk of dropping out.

-> Additionally, users have to provide the **required** input **dataset** and ensure that the website meets the needs of its intended users effectively.

Describe your Dependencies:

->User has to provide with **proper dataset** that fulfils the requirements of the algorithm.

->**Improper datasets** i.e. data inconsistency and redundancy in the dataset can lead to improper results.

->Dataset should be **updated with time** in order to get the most latest analysis.

->As it is going to be a web based software, there is a dependency on the **internet connection**.

Show stopper here:

->Government has to give **valid dataset** for further processing.

->Dataset should be provided **on time** to get analysis done on time.

Team Member Details

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Branch: B.Tech   Stream: CSE   Year: III

Team Member 1 Name: **Shruti karpe**

Branch: B.Tech   Stream:CSE   Year: III

Team Member 2 Name: **Manas Auti**

Branch: B.Tech   Stream:CSE   Year: III

Team Member 3 Name: **Aditya Kulkarni**

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Team Member 4 Name: **Jaydeep Jare**

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Team Member 5 Name: **Atharva Tupe**

Branch: B.Tech   Stream: CSE   Year: III

Team Mentor 1 Name: **Shahin Makubhai**

Category : Academic   Expertise : AI & Cloud   Domain Experience : 4 Years