



Bit n Build

V-learn

A PLATFORM TO LEARN, UPSKILL AND GROW

Problem Statement

Ralph got Vanellope to join an academic institution and unlike in Sugar Rush, she is having a hard time in improving her performance. It seems that most of the students are also facing the similar situation like Vanellope. The institution is trying to identify weak students to help them by providing extra lectures and personal attention. Your team has been hired by Fix-It Felix Jr to fix this problem and create a technical solution which will identify the weak students based on their past performance so that proper guidance is given before their final exams.



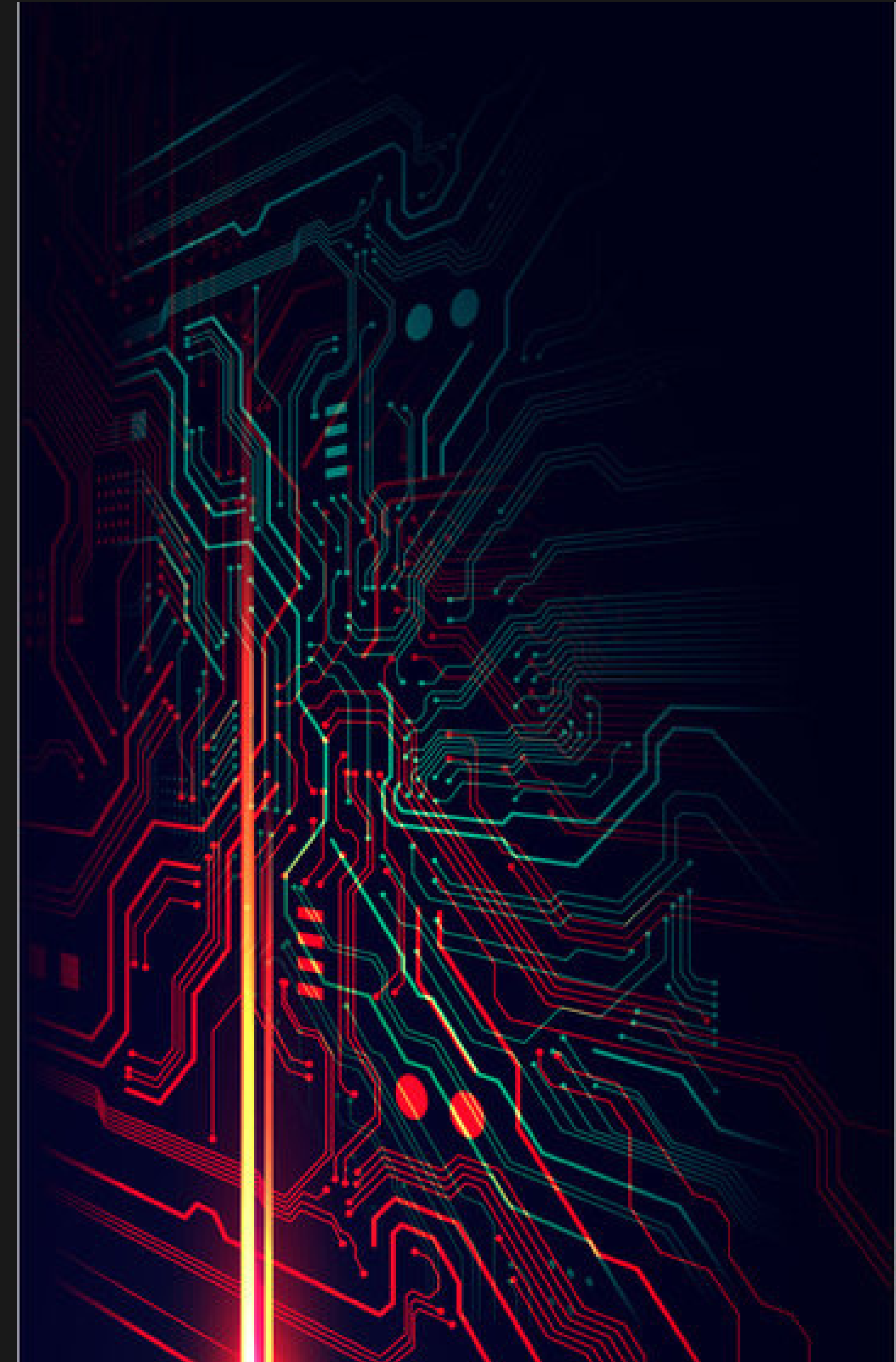
Our Idea

- One potential solution could be to use machine learning algorithms to analyze student performance data, such as grades on assignments and exams, to identify patterns and predict which students are at risk of struggling.
- We would be using the past year's dataset of our own college to train the model.
- The model would be predicting the SGPA of students on basis of their Term Test marks and if their predicted SGPA falls in a range where improvement is required they will be alerted and provided proper guidance according to the respective subject's performance.
- There would be an interactive User Interface of 2 panels: Faculty(Admin) and Student.
- The Scheduling of Lectures for weak students can be done smartly by our system by checking the availability of faculty.
- Students can use the dashboard for viewing schedules and tracking their performance.

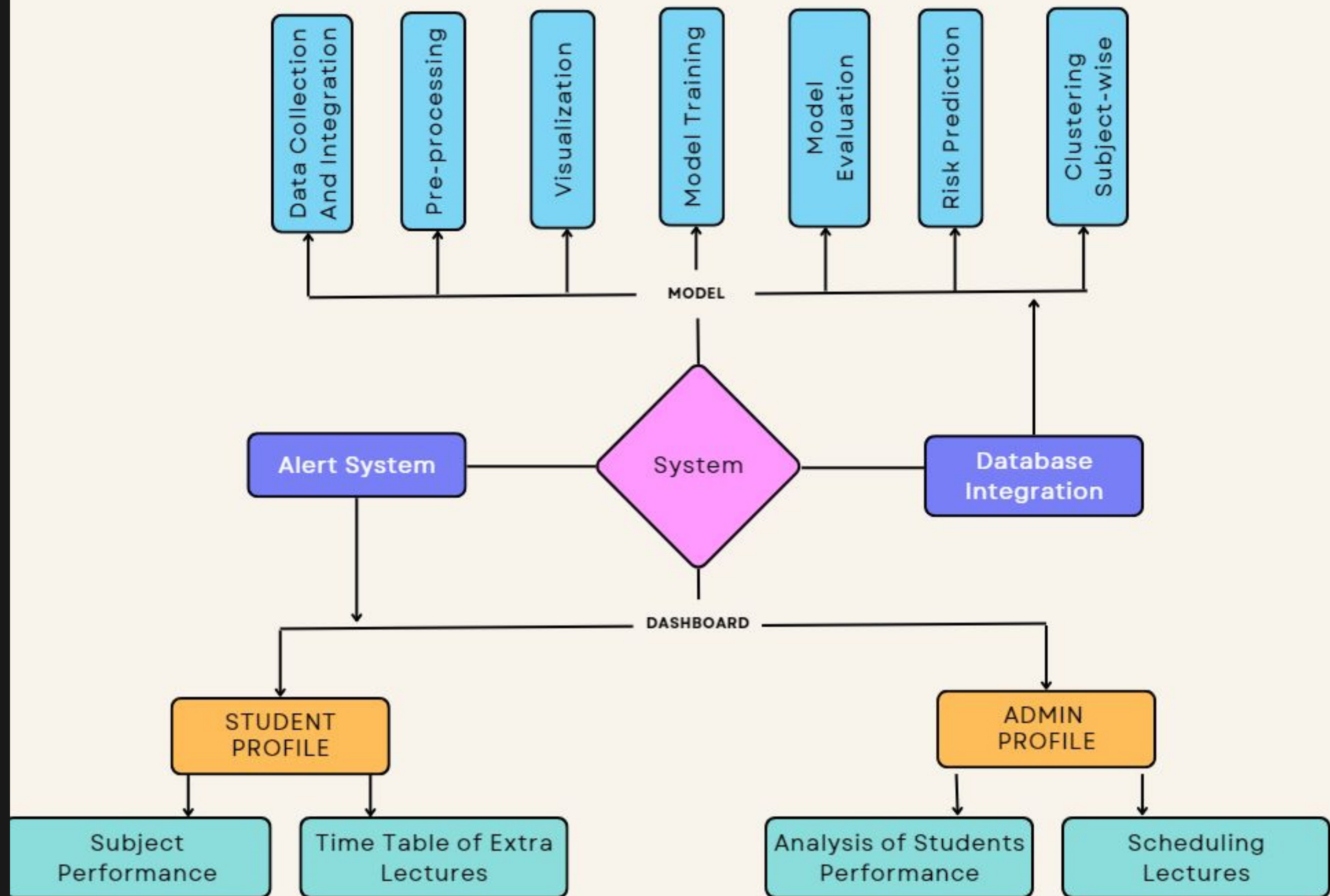


Our Idea as per new inputs

- Now, the students can predict their final sgpa on the basis of their Term Test 1 marks only, making the model useful from the first exam itself.
- Individual students can now see their percentile (group) in which they lie.
- Now the weak students will be clustered according to their marks and these clusters will be visible to the respective subject faculty.



System Architecture



Use Cases



Personalized Dashboards for both Students and Teachers

Calender available to schedule and view extra lectures along with other lectures.

Risk Predictor available where student can check his expected SGPA on the basis on his past performance.

Information about the curriculum and the faculties also available.

Student can visualize their performance and their attendance with the help of charts present.

Future Scope

- This platform can provide live meetings.
- Students can access the recorded lectures as per their convenience
- Alert System for both the teachers and students about different announcements and notices.
- Discussion forums to be created to form a network of students to clear doubts.
- Teachers can post tests or quizzes and can also provide appropriate study materials for the students.
- Interview preparation and expert sessions.
- Students will be grouped on their particular subject to improve their subject-wise performance.