

Project Design Phase-I
Proposed Solution Template

Date	20 October 2023
Team ID	NM2023TMID02554
Project Name	Project - Unleashing the Potential of the Youth: A Student Performance Analysis.
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Predicting student performance becomes more challenging due to the large volume of data in educational databases. The lack of existing system to analyse and monitor the student progress and performance is not being addressed. There are two main reasons of why this is happening. First, the study on existing prediction methods is still insufficient to identify the most suitable methods for predicting the performance of students. Second is due to the lack of investigations on the factors affecting student achievements in particular courses. As there are more data, it may take more time to analyse and identify the struggle of the students.
2.	Idea / Solution description	<p>Student performance analysis is the process of evaluating and assessing the academic progress of students in a particular educational institution or program. This analysis helps educators and administrators to identify areas where students are excelling or struggling and to make informed decisions about curriculum development, instruction, and student support services.</p> <p>Student performance analysis can also be used to evaluate the effectiveness of teaching methods and instructional materials, and to identify areas where improvements can be made. Additionally, it can inform decisions about resource allocation, such as the allocation of funding for academic programs or professional development for educators.</p> <p>Overall, a student performance analysis system can help schools improve student outcomes, increase graduation rates, and close the achievement gap.</p>

3.	Novelty / Uniqueness	The ability of a student performance analysis system lies in the process and analyse vast amounts of student performance data from multiple sources in a centralized platform. Overall, a student performance analysis system represents a novel and unique solution to the challenge of analysing and utilizing student performance data to improve outcomes for students.
4.	Social Impact / Customer Satisfaction	A student performance analysis system can help to improve satisfaction among teachers, administrators, and parents by providing a more comprehensive and accurate view of student performance. Teachers and administrators can use the system to identify areas where students are struggling and develop targeted interventions to address these challenges. Parents can also use the system to monitor their child's progress and stay informed about their academic performance. Overall, a student performance analysis system has the potential to improve both educational outcomes and consumer satisfaction by providing teachers, administrators, and parents with better data and insights into student performance. By leveraging the power of data analytics, the system can help to transform education and improve outcomes for students.
5.	Business Model (Revenue Model)	A business model for a student performance analysis system could be based on a subscription-based model, where schools and educational institutions pay a monthly or annual fee to access the platform and its features. The subscription fee could be based on the number of students enrolled in the school or the number of teachers and administrators who require access to the system.
6.	Scalability of the Solution	The scalability of a student performance analysis system is high, as it can be easily scaled to accommodate a growing number of users and data sources, and can also improve its capabilities over time as it processes more data and becomes more widely adopted.