Innovation and Originality

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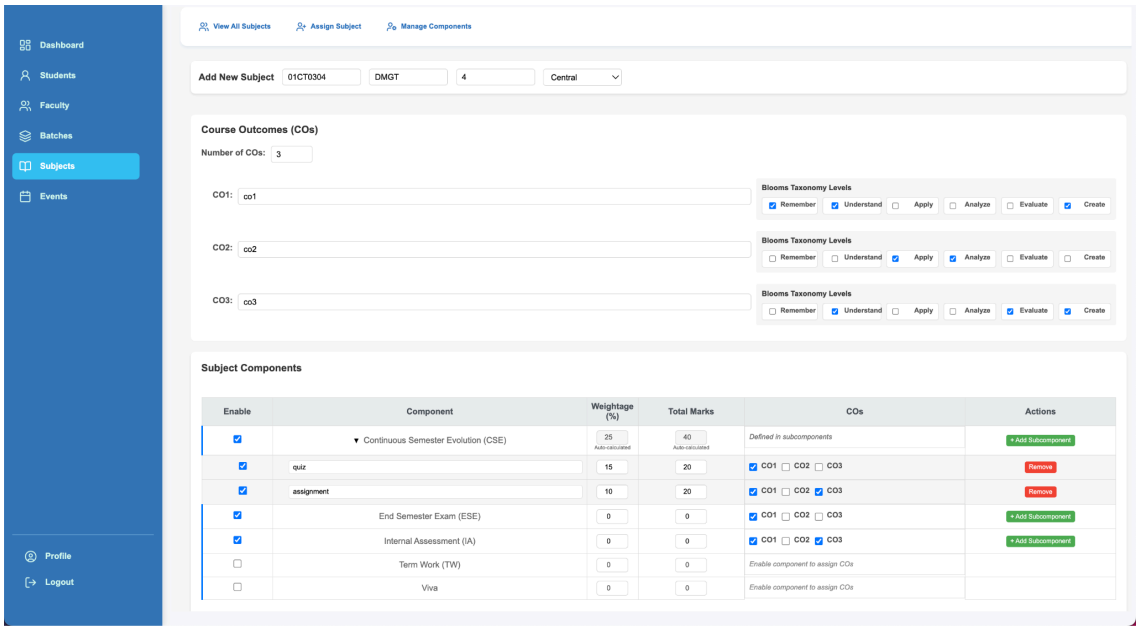
Novelty in Approach

Our project is different from the usual student management systems because it not only stores academic marks but also connects them with Course Outcomes (COs) and Bloom's Taxonomy levels. Most existing systems only record grades or attendance, but they don't explain how each subject or activity contributes to skill development. By adding this layer of analysis, our system helps students, faculty, and parents understand a student's overall strengths, areas for improvement, and progress across both academic and non-academic activities.

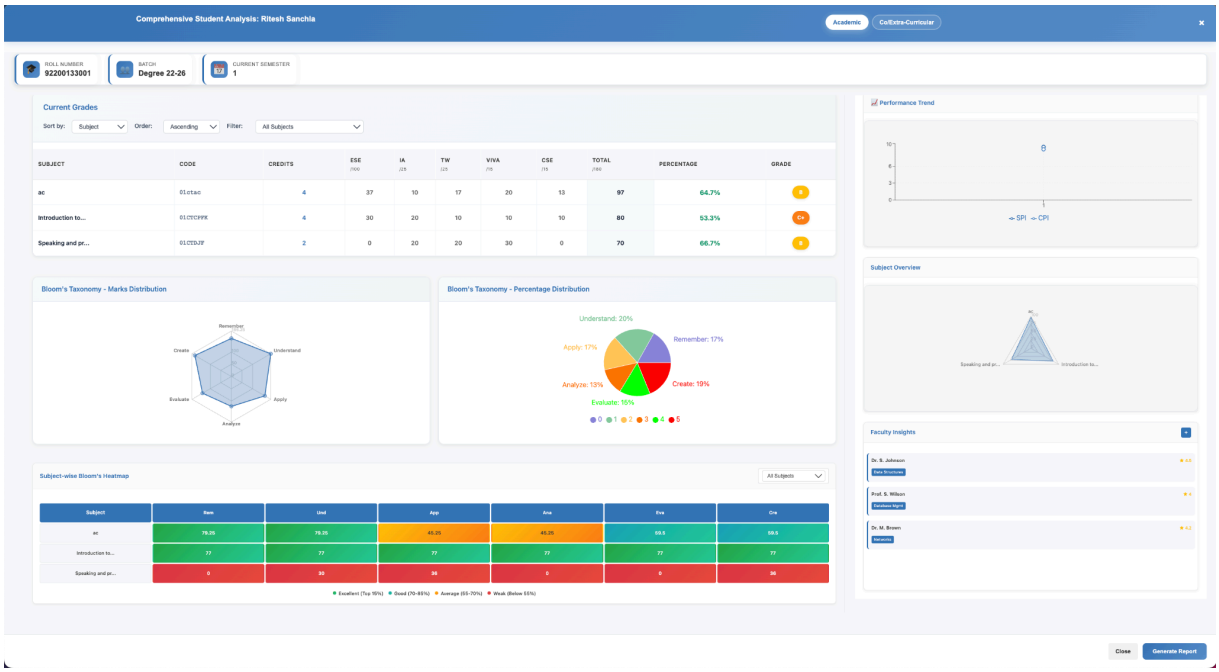
Another unique aspect is the integration of academics with co-curricular and extra-curricular activities. Normally, these records are kept separate (for example, marks in one place, sports achievements in another), which makes it hard to get a full picture of a student. Our system combines all of this into one dashboard, giving a clear overview of student growth in multiple areas.

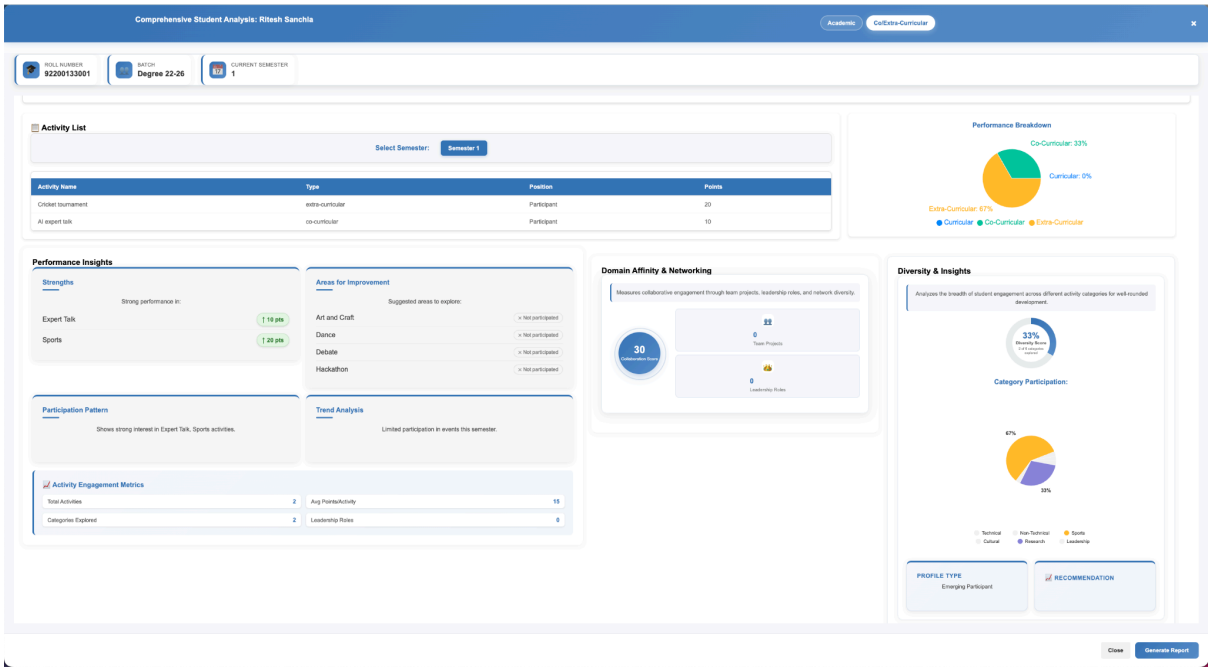
Compared to existing solutions, our approach stands out in three main ways:

1. Outcome-Based Education (OBE) alignment → By mapping marks to COs and Bloom's Taxonomy, the system supports modern education standards, which many traditional tools lack.



2. Holistic tracking → Instead of only showing academic results, we also include activities like hackathons, internships, and sports, giving a more complete student profile.





3. Stakeholder-friendly insights → Reports are simplified for parents and students, while detailed analytics are available for faculty and HODs.

We validated the novelty of our approach through stakeholder feedback. Faculty members mentioned that current systems are time-consuming and do not provide meaningful insights beyond grades. Parents appreciated the idea of getting activity-based performance updates along with academics. This confirms that our solution introduces something valuable and missing in existing tools.

Contribution to the ICT Field

Our project adds something new to the ICT field by creating a system that does more than just showing students marks/grades. Most student management tools stop at basic record keeping, but our project also shows analysis of results using Course Outcomes (COs) and Bloom's Taxonomy. This means we are not only storing data but also turning it into useful insights that can help students and teachers.

Impact on Different users:

Students will get clear information about their strengths and areas where they need to improve, helping them focus better.

Parents will be able to track their child's progress easily and support their learning in a better way.

Faculty will save time by avoiding manual calculations and organizing data. They will be able to track class performance and identify trends more easily.

HODs will get a complete view of performance across batches and semesters. This will help them make better academic and management decisions based on data.

So basically, our project improves on old systems that only showed marks by giving a clearer view of a student's skills, progress, and overall growth. In the future, it could include features like smart suggestions, or better tools to understand student performance.