

DIGIEDUHACK 2025 SOLUTION CANVAS

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TEAM NUMBER:	2	TEAM NAME:	BAM AI
TITLE OF SOLUTION:	Bam-Dash		

1. SOLUTION DESCRIPTION

What is the final Intelligent Analytics solution you're proposing? What are its main elements, technologies and objectives? How could your solution be used to enhance active learning in digital higher education? How could its success be measured?

Please enter up to 200 words.

We are proposing an AI powered dashboard for teachers that can be integrated in other LMS. The idea is to train an ML model on inputs like IOT sensors in class, sensors in students smartphone, contextual data from LMS platform and predict the engagement of students in class. This model will be used in the backend of the platform, which will show the teachers in real time what are different engagement metrics and overall current engagement situation of the class. It also allows to turn on Activity mode where you can track Social and Collaboration engagement while doing any activity in the class. Another part of the platform is powered by ML trained model that intelligently in real time gives alert about the class like change the Pace, Students are getting distracted, maybe repeat the current topic again. On the other side the students will receive 2 second notification in their app about checking in, pace of the class, understanding and engagement level. In the end the platform also has an Post hoc engagement over the whole class that shows during which time, and which topic specifically did the engagement dips a lot.

2. CONTEXT

What is the current or future problem you're trying to solve? How does it help to empower active learning through Intelligent Analytics and fit into the problem-based learning setting? How does your solution align with DigiEduHack 2025 annual theme "[Rethinking Education in the Age of Digital Skills](#)"?

Please enter up 100 words.

Instructors that are teaching in class of more than 100 students often struggle with managing the students. The Learning analytics dashboards (LADs) that are available right now overwhelms and increases the cognitive load of the instructor, with graphs and lots of descriptive statistics data. These LADs which were designed with a promise of reducing workload ends up adding burden rather than reducing it. These dashboards are only used Post hoc, when class is already done and intervention becomes difficult. Studies suggests that LAD has not lived up to the promise and report that negligible or small impact on students' performance. This in general does not allow the instructor to adapt their teaching in real time.

3. TARGET GROUP

Who is/are the target group/s of your solution in higher education and how will they benefit from it? Why is your solution relevant to them and how does it relieve their pains and increase their gains? How do you plan to engage these groups, so you fully meet their specific needs?

Please enter up 100 words.

The target group is instructors in higher education that are teaching classes with more than 80 students. Students might go up to 700 as per data. The content is not important for our solution; it could be applied to almost every scenario the only constraint being number of students and the level of education. Our solution would help instructors engage with the class more effectively thereby helping them to increase the quality of their teachings and also increasing student performance overall.

4. IMPACT

How will your solution catalyse changes in higher education and how do you ensure it being ethical responsible? What impacts will your solution have at social and

environmental level? Could you provide examples or scenarios illustrating how such changes and impacts might unfold?

Please enter up 100 words.

Our solution will transform higher education by enabling data driven real time solution that uses minimal or already available devices, this could be easily integrated in the existing system. This is not content centric in any way, so it is easily scalable to almost any classes that has a lot of students. Using sensors that are not using biometric data directly but still providing important insight to the instructor in real time makes it ethically responsible. This solution allows the teacher to improve their teaching in real time and post hoc.

5. DESCRIBE IT IN A TWEET

How would you describe your solution in a short catchy way with maximum 280 characters?

Please enter up to 280 characters.

Baam-Dash uses existing LMS data, smartphone activity, and low cost IOT sensors to predict, display and inform real-time student engagement, helping instructors manage large classes, reduce cognitive load, and boost participation.

6. INNOVATIVENESS

What makes your solution different and original? Are there similar solutions or approaches currently available or implemented by higher education sector practitioners? If so, why and to what extent is your solution better?

Please enter up to 50 words.

Unlike the current LAD's our approach provides actionable information during class, which enable immediate solutions and by this it transforms how instructors respond to students and engagement patterns in their classes when they have large number of students that is hard to handle.

7. TRANSFERABILITY

Can your solution partly or fully be used in other education/learning contexts or disciplines? Could you provide any example?

Please enter up to 50 words.

Our solution is very easily scalable and transferable to other learning context mostly because it is content free analysis. This could be easily applied to even working environment learning contexts, hackathons and online lectures.

8. SUSTAINABILITY

What are your plans for a further development, implementation upscale and replication of the solution? How do you see it working in the mid- and long term?

Please enter up to 50 words.

As Europe is heading towards top tier education without compromising on ethical concerns, we believe this solution provides this and improves the instructor's lecturing process immensely. We could picture it integrated in almost all the universities LMS with small changes for each field and university.

9. TEAMWORK

Present the members of your interdisciplinary team. What are the competencies you all bring in so the solution is developed successfully? Why are you the perfect team to develop this work? Why are you planning to continue working as a team in the future?

Please enter up to 50 words

We were a team of 3 members. Amir Ansari, Mufaza Nazar and Breno. We have a varied competency from a teacher himself, doctor and AI learning PhD candidate. This amalgamation allowed us to provide different insights to develop this successfully.

9. Link to the prototype

<https://www.figma.com/make/MC6E2migye32WGOFGo74VE/Teacher-Engagement-Dashboard?node-id=0-1&p=f&t=ZkTaM4AhuE7xeTEg-0&fullscreen=1>