



# DIGIEDUHACK 2025

## RETHINKING EDUCATION IN THE AGE OF DIGITAL SKILLS

Next-Gen Learning Design:  
Preparing for the AI-Driven Future

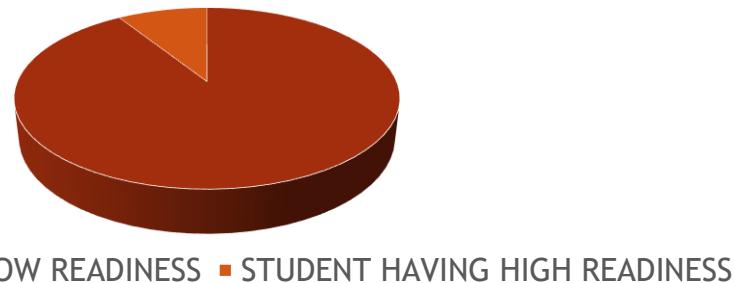
**TEAM- Think Tech**

**TEAM MEMBERS :-**

NAME OF MEMBERS	BRANCH
ARADHYA GUPTA	AIML
OM NAGARIYA	AIML
AYUSH SINGH KUSHWAHA	AIML
ANKIT SHARAMA	CSE

## PROBLEMS:-

- ▶ By **NAS 2021**: The average Class 10 Math score, a test of logical reasoning, was **only 32%**.
- ▶ A 2025 Primus Partners report found that **only 9% of Indian students** demonstrate high readiness in critical thinking and problem-solving.

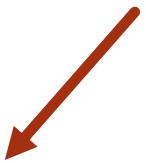


- ▶ India ranked **72nd out of 73 countries** on the PISA test, which measures students' real-world problem-solving.
- ▶ ASER 2023: **25%** of rural students (age 14-18) cannot read a Standard II text, a basic skill for analysis.
- ▶ ASER 2023: **Only 39%** of students (age 14-18) could apply a known skill in a new, unfamiliar context or analysis.

# Lack Of Critical Thinking



## Main Causes



### School Education System

- School reward Rote Learning, not imagination.
- Students focus on marks as a goal rather than on understanding.
- Ineffective Teaching due to lack of technology



### Home Environment

- Children are discouraged from questioning elders, limiting their growth and understanding.
- Limited exposure restricts student development.
- Fear of making mistakes prevents students from exploring new learning opportunities.

## INEFFECTIVE TEACHING

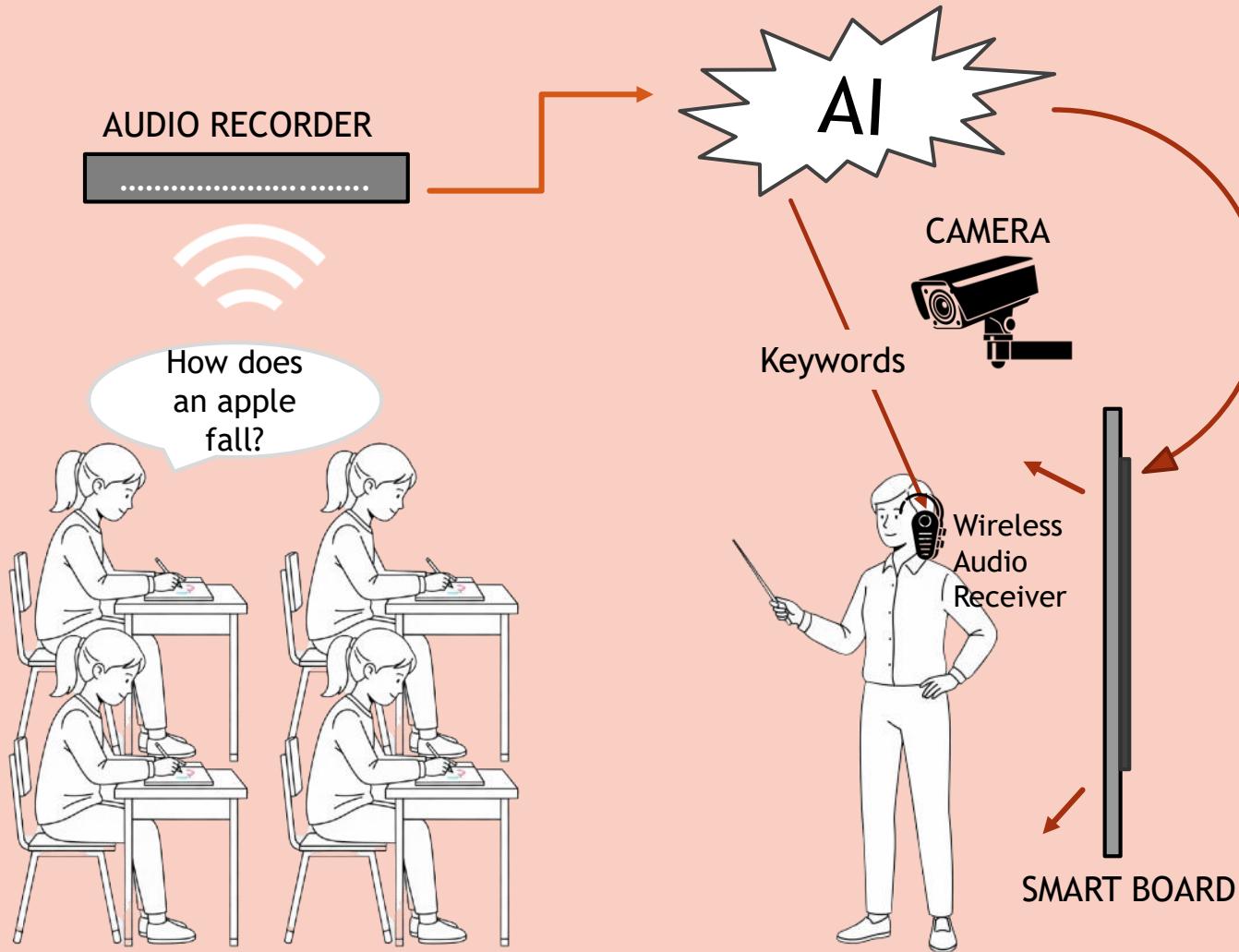
### REASONS



- ▶ Indian classrooms are packed with **high number of students**, teachers struggle to manage discussions.
- ▶ Classes are mostly; students rarely interact or ask questions. **lecture-based**
- ▶ Teacher has to Complete **Heavy Syllabus** in short Time, Which cause Teacher not to answer the question properly.
- ▶ Many teachers do not receive **regular training** in modern teaching methods, technology, or student psychology.
- ▶ Students find it **difficult to connect** with the teacher's answers, which reduces clarity and overall learning effectiveness.

## SOLUTION :- AI Based Teacher Virtual Assistant

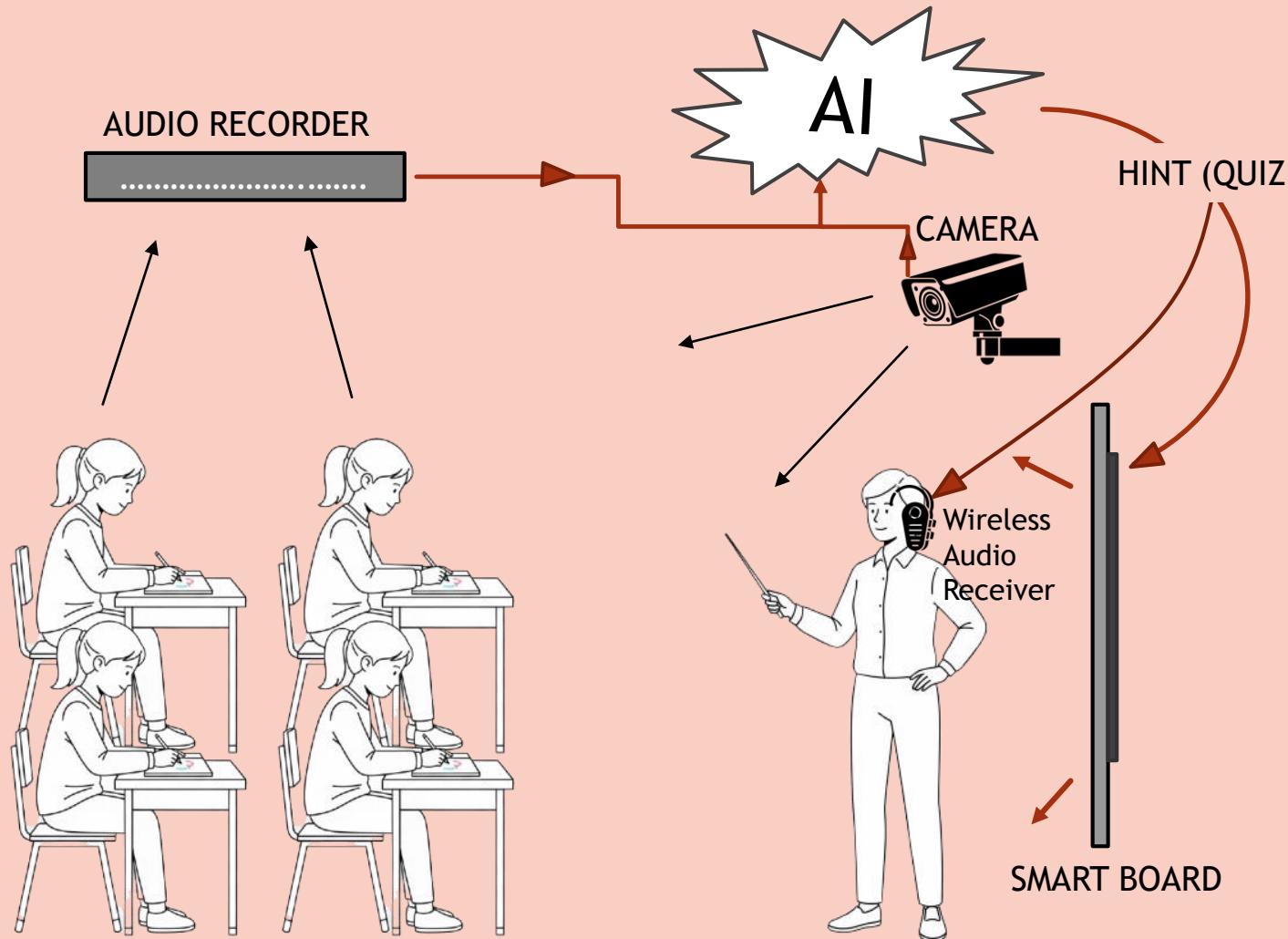
### WORKING :- Feature 1:



### What is Happening ?

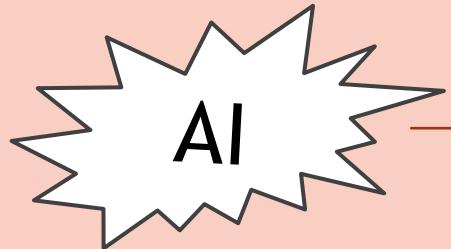
- The student asks a question.
- The question is recorded by an audio recorder.
- The recorded audio is processed by AI.
- If the question is relevant, then AI generates an accurate and visually clear response and keywords.
- The visual response is then displayed on the smart board, and keywords are sent to teachers.

## SOLUTION :- Feature 2:



- AI will continuously analyze the classroom behavior and current topic and create and display appropriate visuals, including quizzes and explanatory animated videos, at the required time.
- It also gives hints to the teacher to manage classroom behavior.

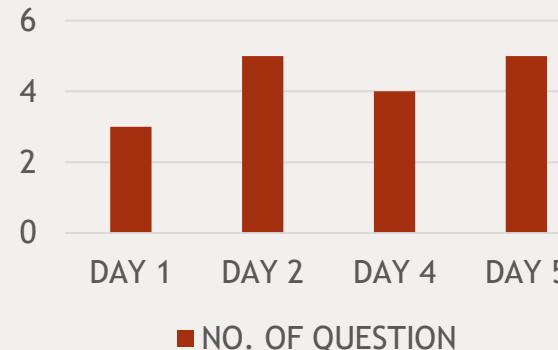
## Feature 3:



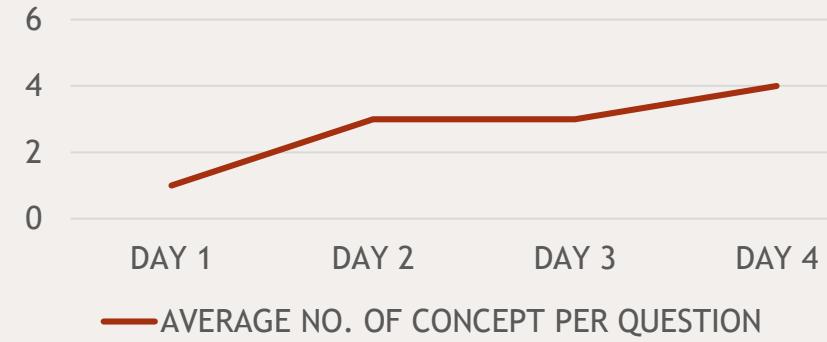
### CREATES A MONTHLY REPORT

AI continuously monitors the teacher's teaching level and the students' question level, and generates the report.

#### NO. OF QUESTION ASKED PER DAY



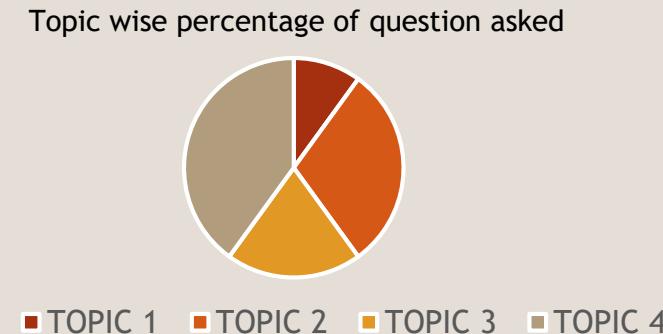
#### COMPLEXITY OF QUESTION



#### CURIOSITY INDICATORS



#### SOURCE OF CONFUSION



<b><u>BEFORE</u></b>	<b><u>AFTER</u></b>
<ul style="list-style-type: none"><li>➤ <b>Limited Insights:</b> Monitoring is purely exam-based, offering no data on student creativity.</li><li>➤ <b>High Teacher Load:</b> Heavy workload forces teachers to defer or reject student questions.</li><li>➤ <b>Unmonitored Skills:</b> Teacher's skill gaps go unnoticed, leading to ineffective lessons.</li><li>➤ <b>Answering Complex Questions:</b> Teachers may struggle to answer difficult student questions on the spot.</li><li>➤ <b>Sole Responsibility:</b> The teacher must manage the entire study structure alone.</li><li>➤ <b>Difficult Visualization:</b> Visualizing complex content for students is difficult and time-consuming.</li></ul>	<ul style="list-style-type: none"><li>➤ <b>Holistic Analytics:</b> The system tracks creativity &amp; critical thinking to build more effective study structures.</li><li>➤ <b>Reduced Teacher Load:</b> The system automates tasks and helps answer questions, freeing up the teacher.</li><li>➤ <b>Targeted Professional Development:</b> The system identifies skill gaps and provides access to proper training.</li><li>➤ <b>On-Demand AI Assistance:</b> An AI assistant provides instant, data-backed answers for complex questions.</li><li>➤ <b>AI Teaching Partner:</b> An AI assistant co-teaches by actively engaging students with questions.</li><li>➤ <b>Easy Visualization:</b> The system provides tools for rich visuals, helping students connect with the material.</li></ul>

# TECH STACK :-

**FRONT END :- ANY APPROPRIATE SOFTWARE**

**BACK END :- ANY APPROPRIATE SOFTWARE**

**DATA BASE :- ANY APPROPRIATE DATABASE**

**HARDWARE :-** 1.CAMERA,  
2.AUDIO RECORDER (MIC),  
3.SMART BOARD,  
4.COMPUTER SYSTEM.

## IMPACTS:-

- Encourages a Question-Friendly Classroom.
- Improves Teaching Quality.
- Boosts Critical Thinking in Students
- Promote **Interactive communication**: reduce one way communication.

## BENEFITS:-

- It ensures every student gets a complete, concept-level answer.
- Students who are shy or afraid of teacher reaction can rely on AI-generated clean explanations.
- AI-driven animation on Smart TV makes concepts easier to visualize and discuss.

## SCABILITY:-

- Easily deployable in any classroom.
- Language Scalability.
- Affordable for Low-budget Schools.

## Reference & Resources:-

1. Chat GPT
2. Google Gemini

THANK YOU