

## RETHINKING EDUCATION IN THE AGE OF DIGITAL SKILLS

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

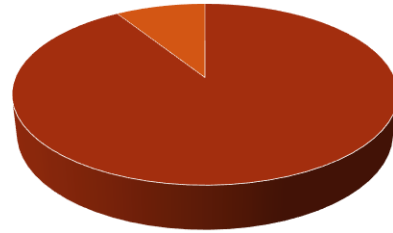
TEAM- Think Tech

TEAM MEMBERS :-

NAME OF MEMBERS	BRANCH
ARADHYA GUPTA	AIML
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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.



■ STUDENT HAVING LOW READINESS ■ STUDENT HAVING HIGH READINESS

- ▶ 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

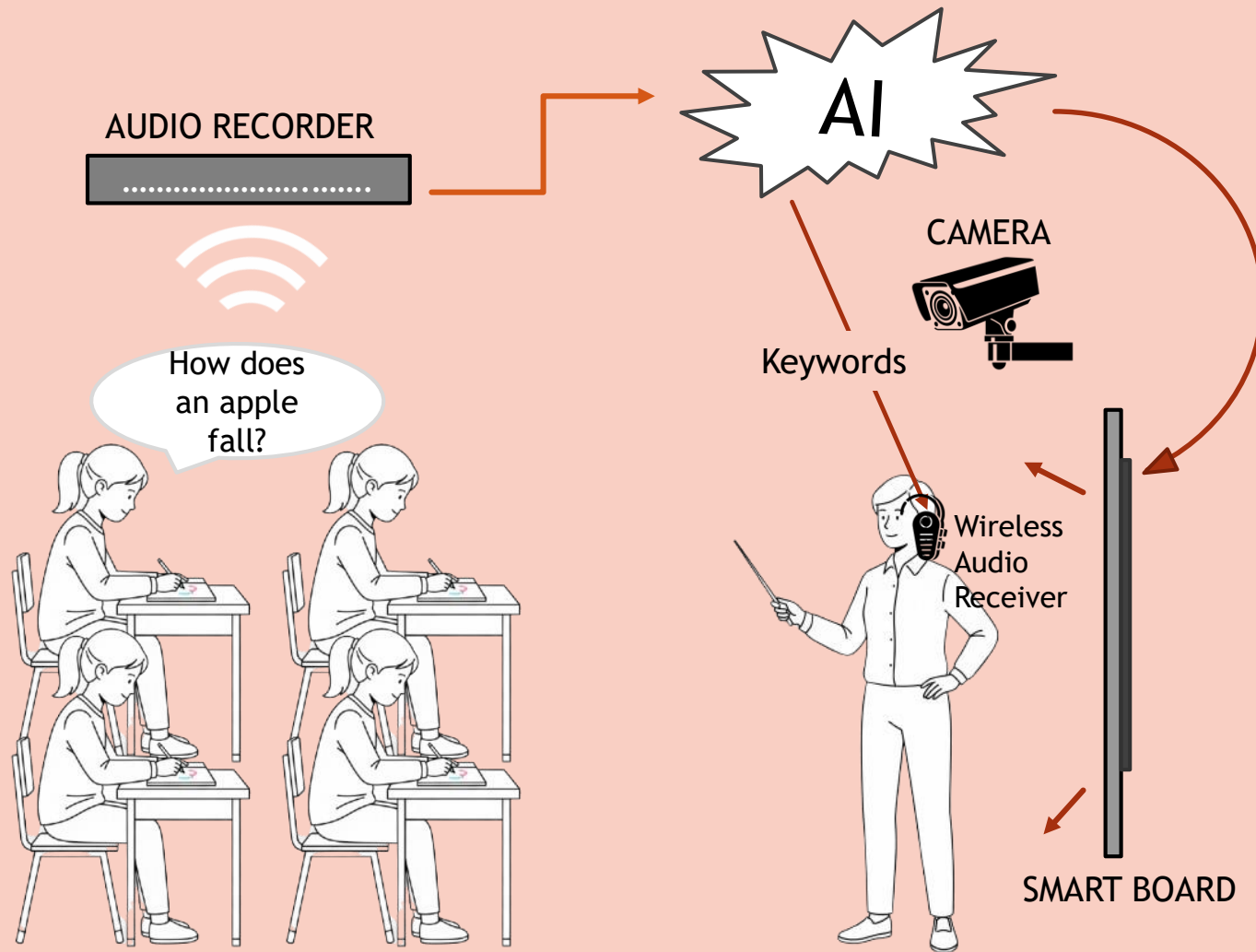


## REASONS

- ▶ 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

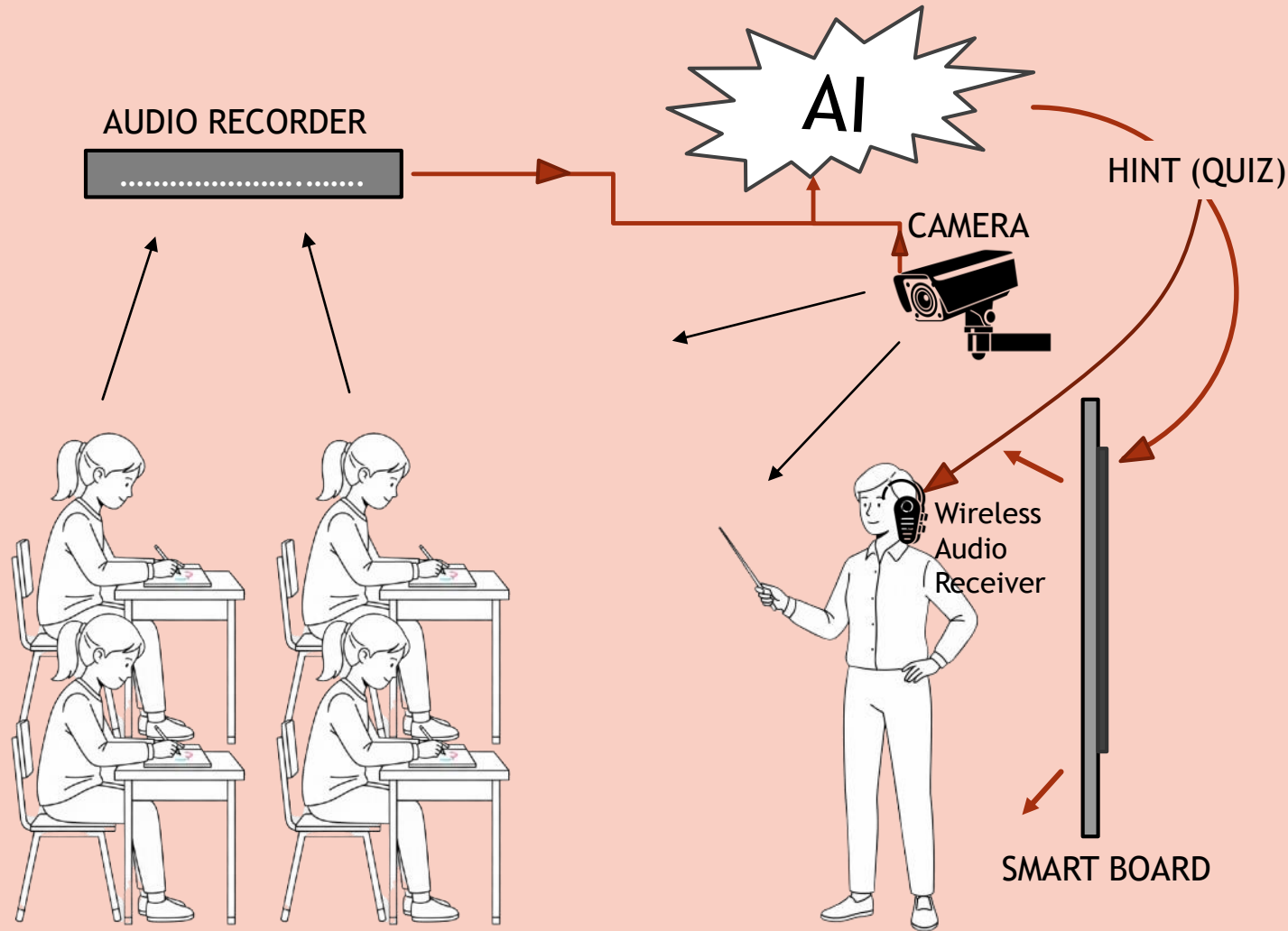
### WORKING :- Feature 1:



### What is Happening ?

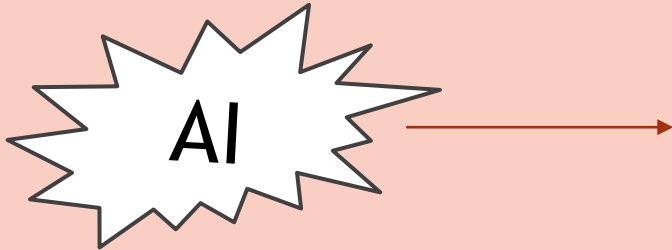
- The student asks a question.
- The question is recorded by an audio recorder.
- The recorded audio is processed by AI.
- If the question is relevant, then AI generates an accurate and visually clear response and keywords.
- The visual response is then displayed on the smart board, and keywords are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

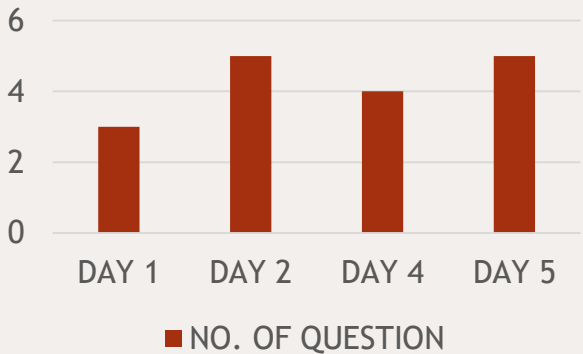
Feature 3:



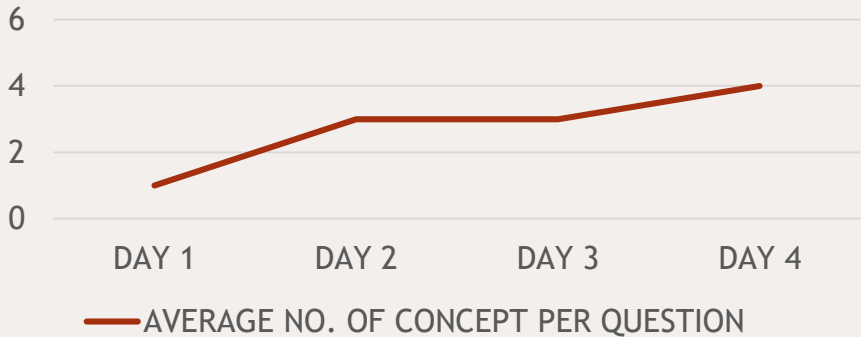
CREATES A MONTHLY REPORT

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

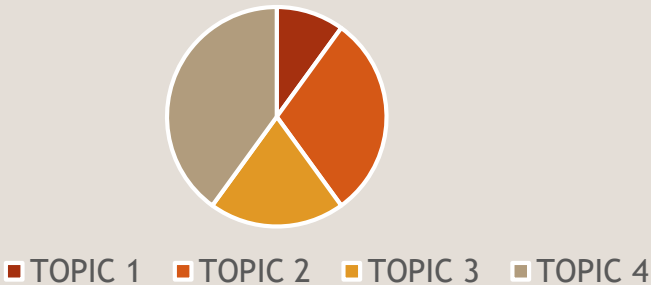


CURIOSITY INDICATORS



SOURCE OF CONFUSION

Topic wise percentage of question asked



<u><b>BEFORE</b></u>	<u><b>AFTER</b></u>
<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:-

- I 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