



# Profile Overview

- **Theme** – EdTech
- **Problem Statement Title**- “Bridging Academic Isolation in Tier 3 cities via AI-powered peer collaboration “
- **Project Name** - StudyBuddy
- **Team ID** - (As per Unstop registration)
- **Team Name** – Data Dynamos



# IDEA TITLE

## Problem Statement:

- Personalized learning platforms and Gamification of educations : Tailored learning experiences to individual needs and preferences, making education more engaging and effective.

## Solution Overview:

- AI-powered platform to auto-match learners based on subject & learning style
- Real-time encrypted doubt solving, group chat/ video chat, and collaborative mock tests
- Gamified experience to build motivation and identity in learning

# Innovation & Problem-Solving

## **Problem-Solving:**

- Match students with similar subjects, goals, and habits
- Real-time AI chat for instant doubt resolution
- Optional escalation to human mentors or peer board

## **Innovation & Edge:**

- India-first rural-focused social learning network
- AI-generated group study recaps and test challenges
- Hybrid of EdTech, social learning & gamification



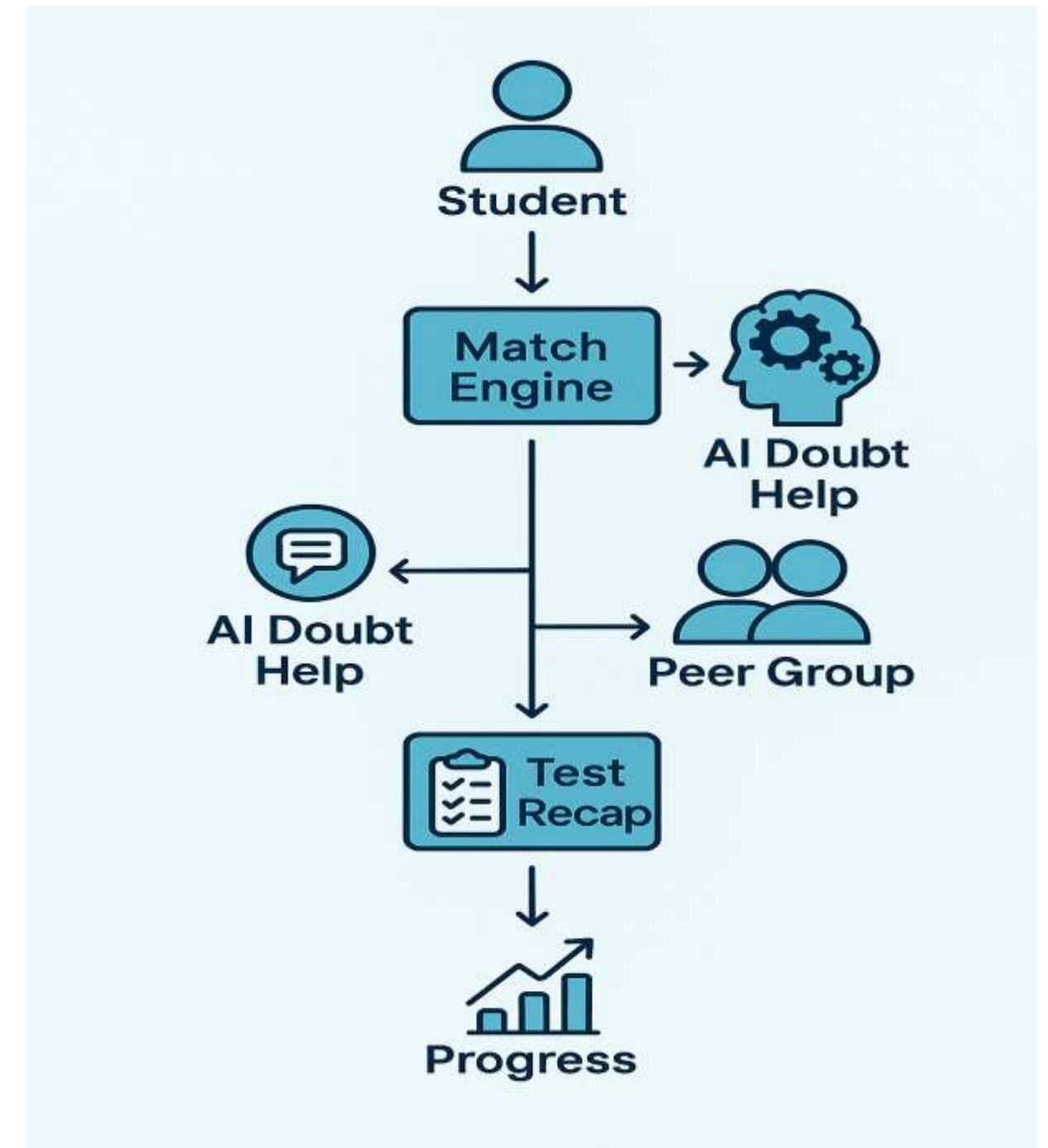
# Technical Approach

## 🔍 Technologies Used:

- Frontend: HTML, CSS, JS, EJS (UI)
- Backend: Node.js, Express.js, MongoDB
- Live Chat: WebRTC, Socket.io
- AI Support: GPT API / NLP Libraries

## 🔍 Methodology:

- Identify user need → Match algorithm →
- Connect peers
- Schedule sessions + mock tests → Recap +
- reward cycle





## FEASIBILITY AND VIABILITY

### ✓ Feasibility:

- MVP build-ready with current team skills
- Cloud-based deployment possible at low cost

### ⚠ Challenges:

- Ensuring real-time matching without spamming
- Preventing abuse in chat/video

### 🛡 Mitigation:

- Queue-based matching + timing preferences
- E2E encryption + abuse flagging + moderation layer



## IMPACT AND BENEFITS

### 🎯 Target Audience:

- Tier 2 & 3 students (high school + college + aspirants)
- Students preparing for boards, JEE, NEET, CUET and other learners too

### 🔥 Key Benefits:

- Builds learning community where none exists
- Replaces expensive tuitions with accessible peer help

### 📈 Long-Term Vision:

- Expand to regional languages & exam boards
- Scalable into national-level rural education platform





## REFERENCES

- **OpenAI GPT API** – Chatbot & AI reasoning
- **LangChain + Pinecone** – Contextual AI support
- **WebRTC & Socket.io** – Video + Real-time chat
- **Firebase & Redis** – Auth, push notifications, queues

 **APIs & Tools**



- NCERT / CBSE / NEET / JEE content  
ncert.nic.in | [nta.ac.in](https://nta.ac.in)
- some other study material for library.

 **Educational  
Sources**



- Duolingo (gamification), Notion (clean UI), Discord (community chat)

 **Design  
Inspirations**

