

A 2-DAYS NATIONAL LEVEL  
HACKATHON ON

# AI IN EDUCATION

LEGAL EDUCATION & AWARENESS  
(NYAYSHIKSHA)

TEAM-TECH BROZ

REHAN RAJA  
01/09/2025  
SISTEC G.N.



[www.samadhan.sistec.ac.in](http://www.samadhan.sistec.ac.in)



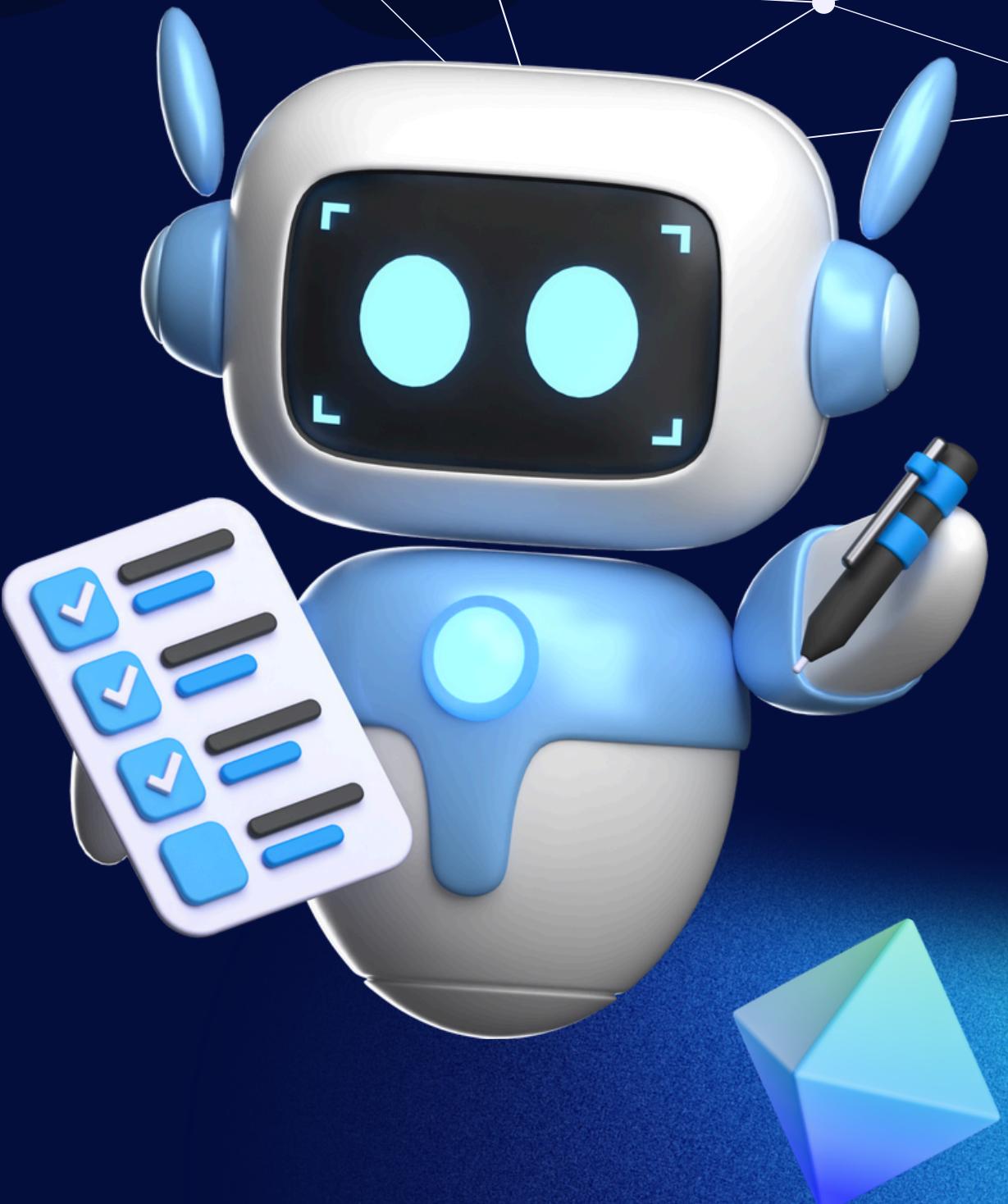
# AREA OVERVIEW

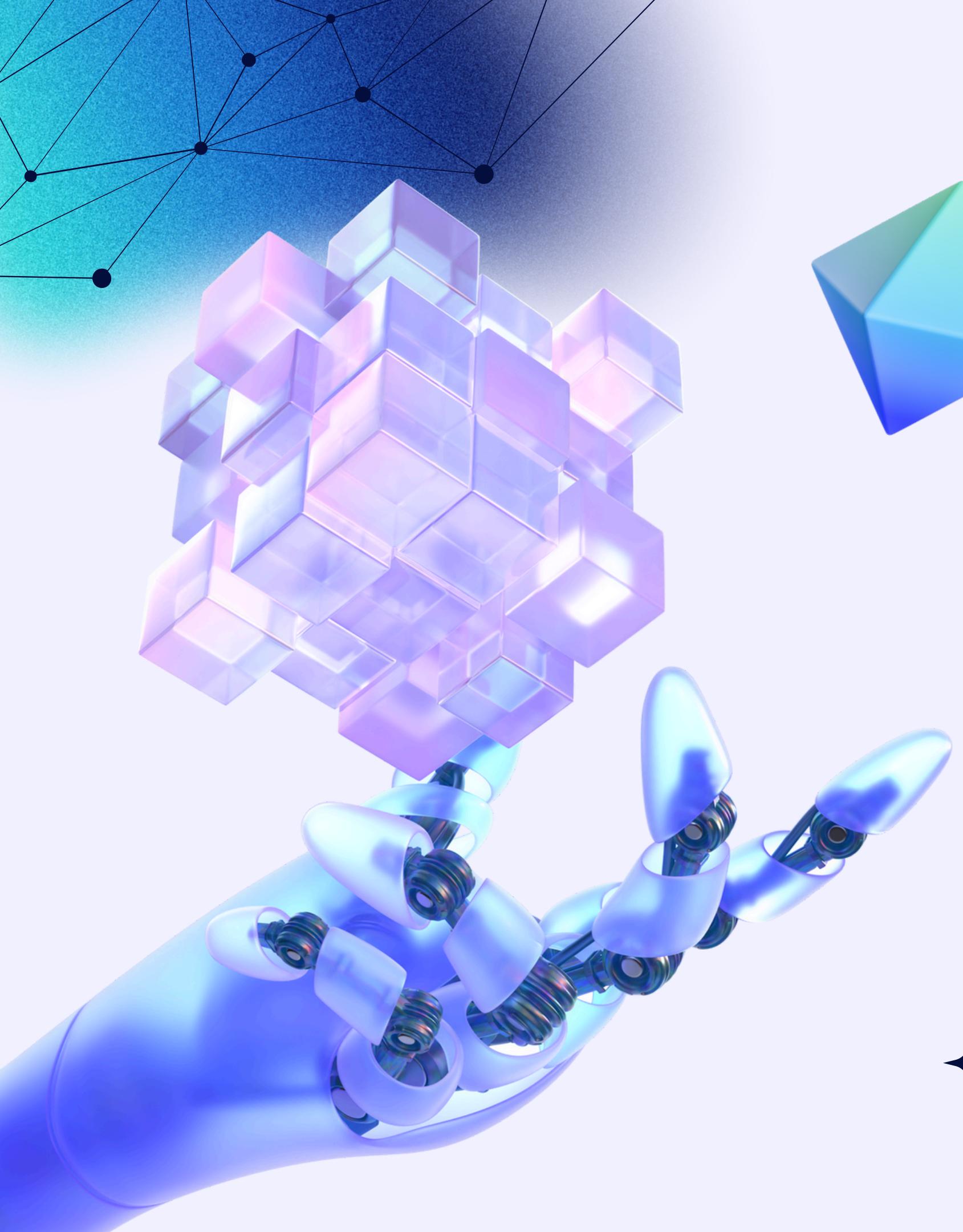
## WHAT IT IS:

NyayShiksha: AI agent teaching students about their legal rights & duties. Uses short lessons, mini real-life cases, and quick quizzes. Builds practical legal literacy in an easy-to-understand way.

## WHY STUDENT-FOCUSED:

Students face campus issues: cyberbullying, harassment, exam disputes, rental/hostel problems. Clear, accessible legal guidance is rarely available —NyayShiksha fills this gap.





## ★ ← IMPORTANCE & MOTIVATION

### IMPORTANCE

Empowers students to protect themselves & peers (privacy, safety, fair process). Teaches early steps to prevent escalation (reporting, evidence collection). Builds civic awareness for responsible participation

### MOTIVATION

Legal knowledge is missing in curricula. Friendly AI tutor makes learning practical, engaging & scalable

# POTENTIAL CHALLENGES AND OPPORTUNITIES



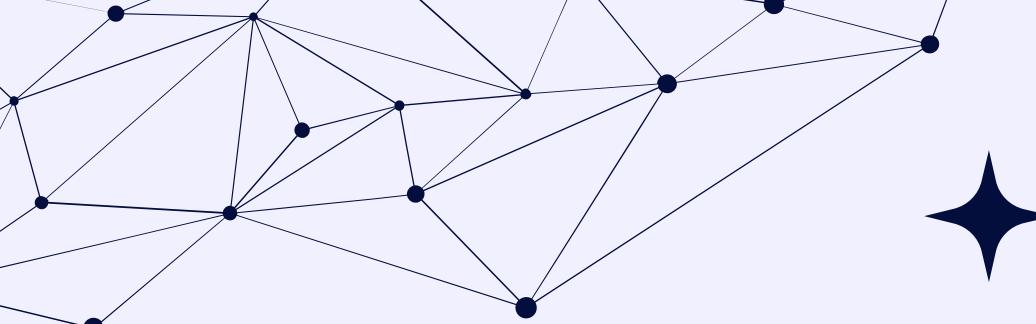
## CHALLENGES

**Complex, context-sensitive legal language**  
**Ensuring AI answers are trustworthy & accurate**  
**Protecting student data & privacy**

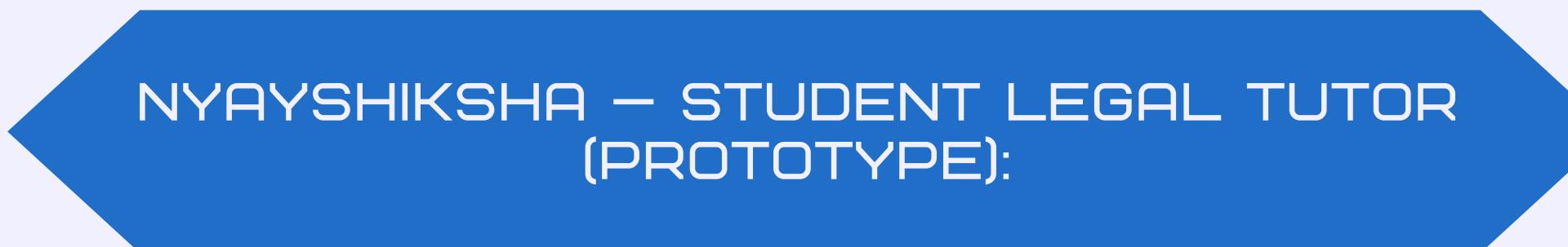


## OPPORTUNITIES

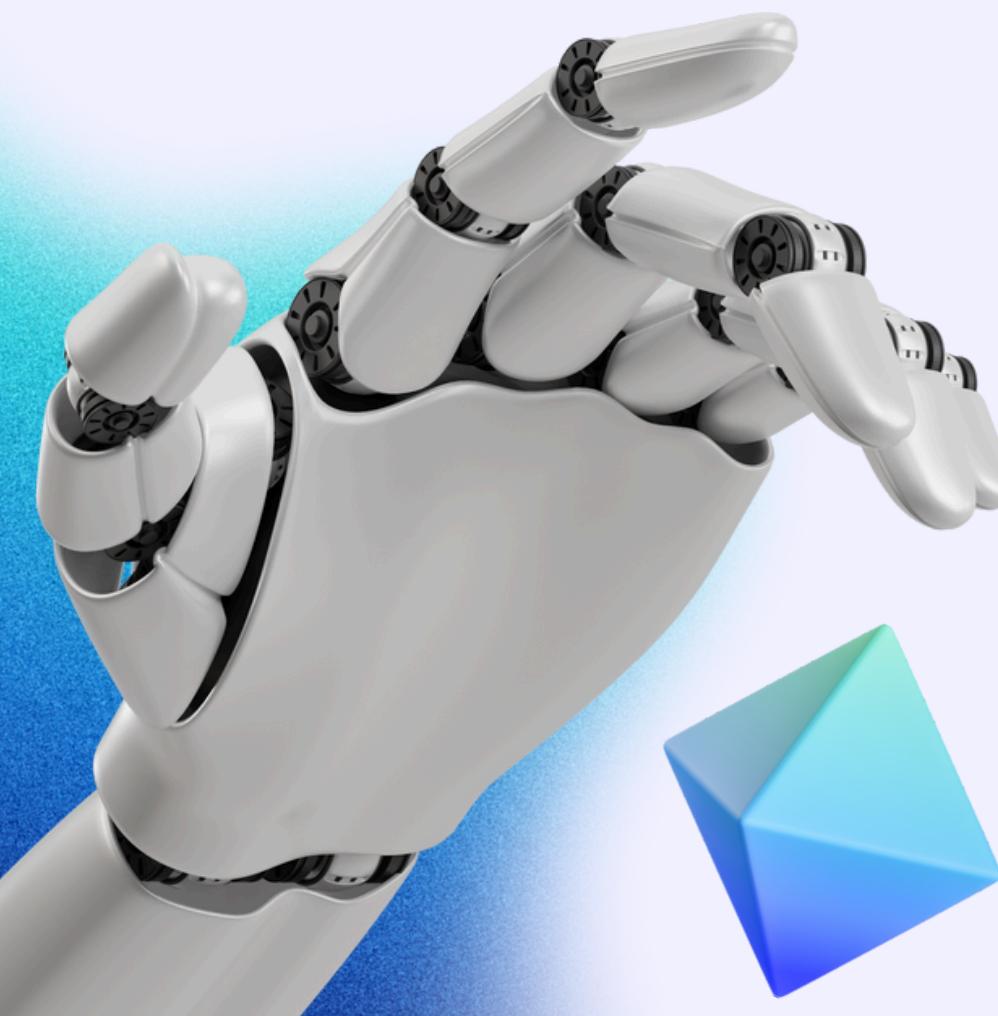
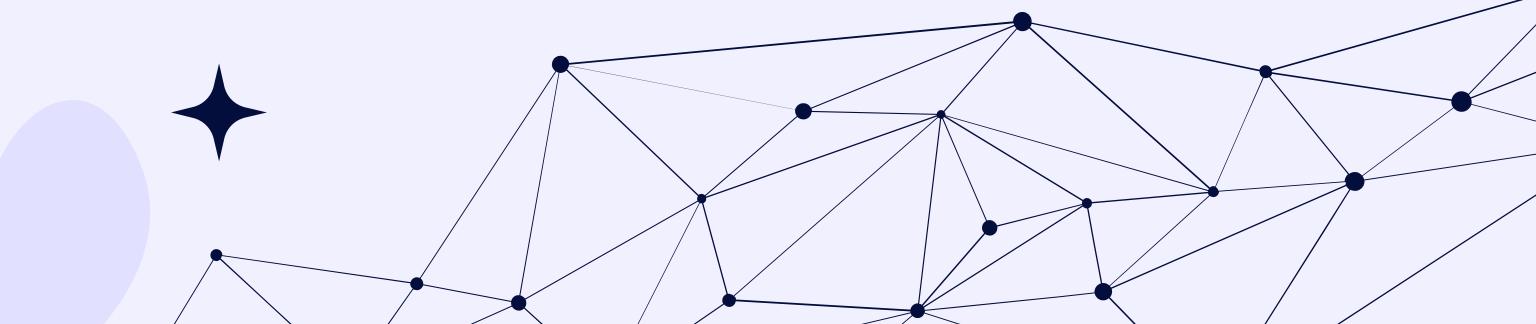
**Bite-sized, scenario-based learning for students.**  
**Multilingual reach (Hindi, English, regional languages).** **Scalable campus integration (ICC cells, grievance portals)**



# PRELIMINARY SOLUTION CONCEPT



NYAYSHIKSHA – STUDENT LEGAL TUTOR  
(PROTOTYPE):

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- ➡ **Conversational AI:** explains rights, shows short real cases, 3-question quiz per micro-lesson
  - ➡ **Step-by-step guidance:** what to save, who to contact, reporting templates.
  - ➡ **Lightweight web/chat interface:** mobile & desktop friendly
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# KEY FEATURES AND FUNCTIONALITIES

- ➡ **Student-friendly explanations (short, simple, no jargon)**
- ➡ **Real mini-case studies for each topic**
- ➡ **Quick quizzes with instant feedback & scores**
- ➡ **Progress tracker: lessons completed & weak topics**
- Multilingual support (English/Hindi)**
- ➡ **Escalation templates & resource links (report forms, campus cells, helplines)**
- ➡ **Privacy controls: anonymous mode & local logging**



# TARGET USERS AND EXPECTED USE CASES



→ Primary users: High-school and college students

→ Secondary users: Teachers, campus admins, parents, student-welfare cells

## USE CASES:

- Student: “My photo leaked in a group — what can I do?” → steps + quiz
- Exam dispute: “Marks missing — how to file RTI or grievance?” → template + next steps
- Campus harassment: how to document, report, and seek support.



# DATA REQUIREMENTS AND PRIVACY CONSIDERATIONS

## Data needed

- ➡ Non-identifying example queries and anonymized chat logs.
- ➡ Verified legal content: constitutional basics, IT Act highlights, consumer & campus rules.
- ➡ Templates (FIR/sample complaint, grievance email)

## Privacy safeguards

- ➡ Minimal personal data collection; anonymous mode available.
- ➡ Consent before saving messages; encryption in transit & at rest.
- ➡ Clear disclaimer: educational guidance, not legal representation.
- ➡ Retention policy & opt-out for stored logs.



# AI TECHNOLOGIES AND METHODS

NLP / LLM for explanation generation (RAG retrieval-augmented generation).

Intent classification & slot extraction to identify issue type (cyberbullying, consumer, harassment).

Vector DB embeddings) for legal knowledge base

Dialogue manager / agentic planner to produce stepwise learning flows

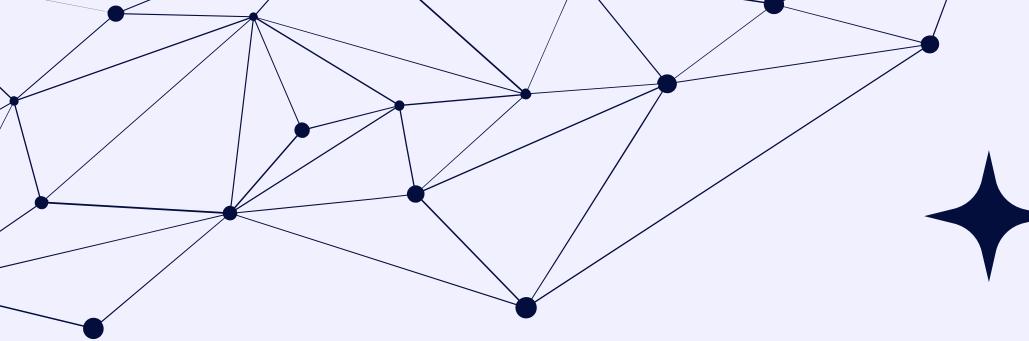
Multilingual models or translation pipeline for Hindi support.

# IMPLEMENTATION APPROACH

## Architecture (prototype)

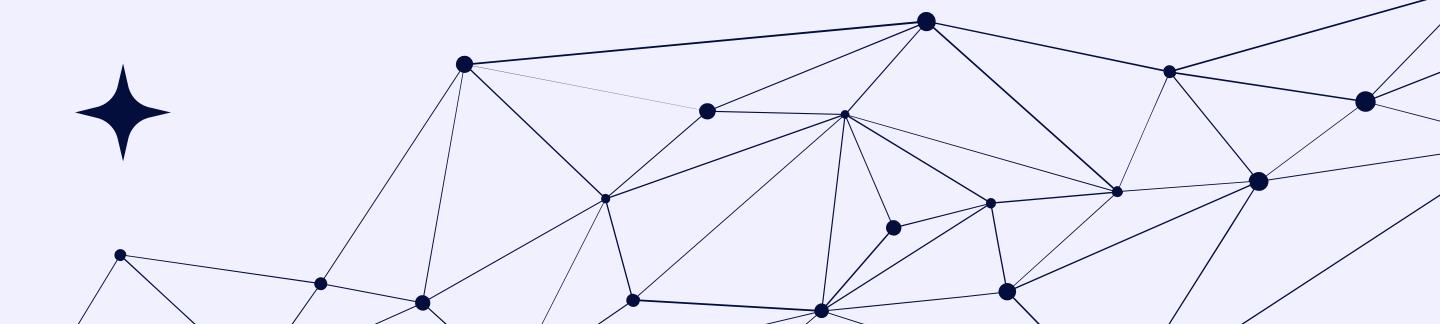
- ➡ **Frontend:** React (UI/UX, quiz & case flow)
- ➡ **Backend:** Django (API + user management)
- ➡ **AI Layer:** OpenAI / LangChain (for scenario handling, explanation, case generation)
- ➡ **Database:** PostgreSQL / MongoDB (user progress, quiz results)





# EVALUATION METRICS



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- ➡ **Learning Gain** – quiz score improvement
  - ➡ **Engagement** – lessons completed, time spent
  - ➡ **Accuracy** – verified legal correctness
  - ➡ **Response Time** – average latency
  - ➡ **User Satisfaction** – ratings & feedback

# THANK YOU...



TECH BROZ..

