

# MANTRIX - THE ONE STOP CAREER ADVISOR

Theme- Smart Education

PS Category - Software

Problem Statement ID – SIH25094

Problem Statement Title - One-Stop Personalized Career & Education Advisor

Team ID- 59913

Team Name- Null Pointers

# One-Stop Personalized Career & Education Advisor

## Problems we address

70%

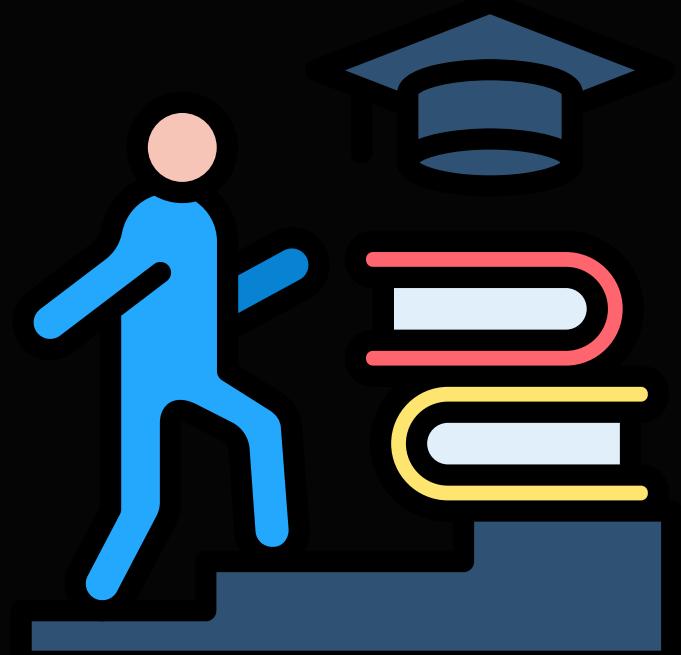
their career paths post-Class  
10th and 12th, leading to  
misaligned choices

72%

of rural households have  
internet access  
versus 66% urban, creating  
a critical digital divide for  
online resources  
~Brooklyn Institution

62%

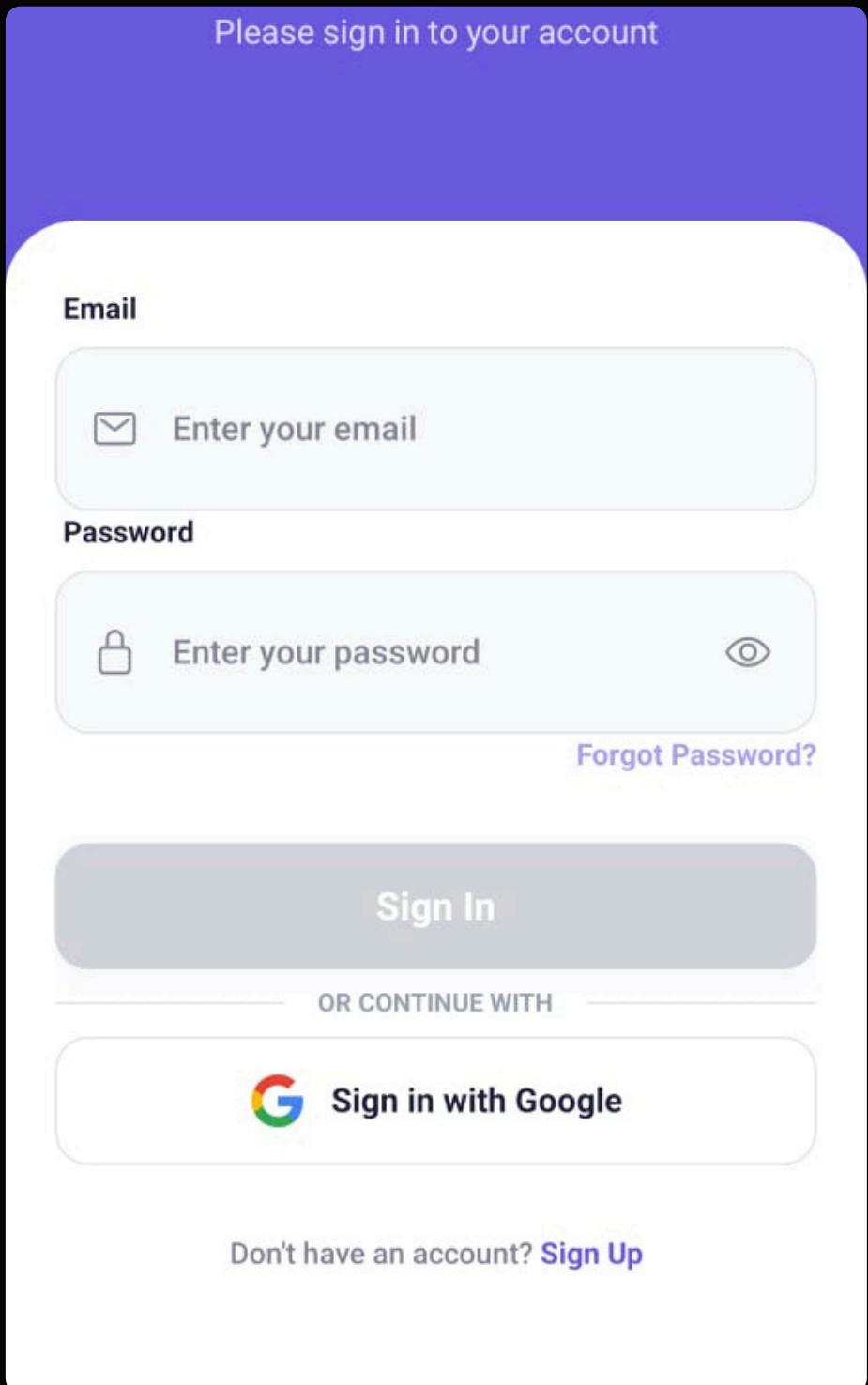
report that model quality  
degrades silently after updates  
with no alerting or drift detection.  
~ERIC



# Comprehensive Onboarding Process

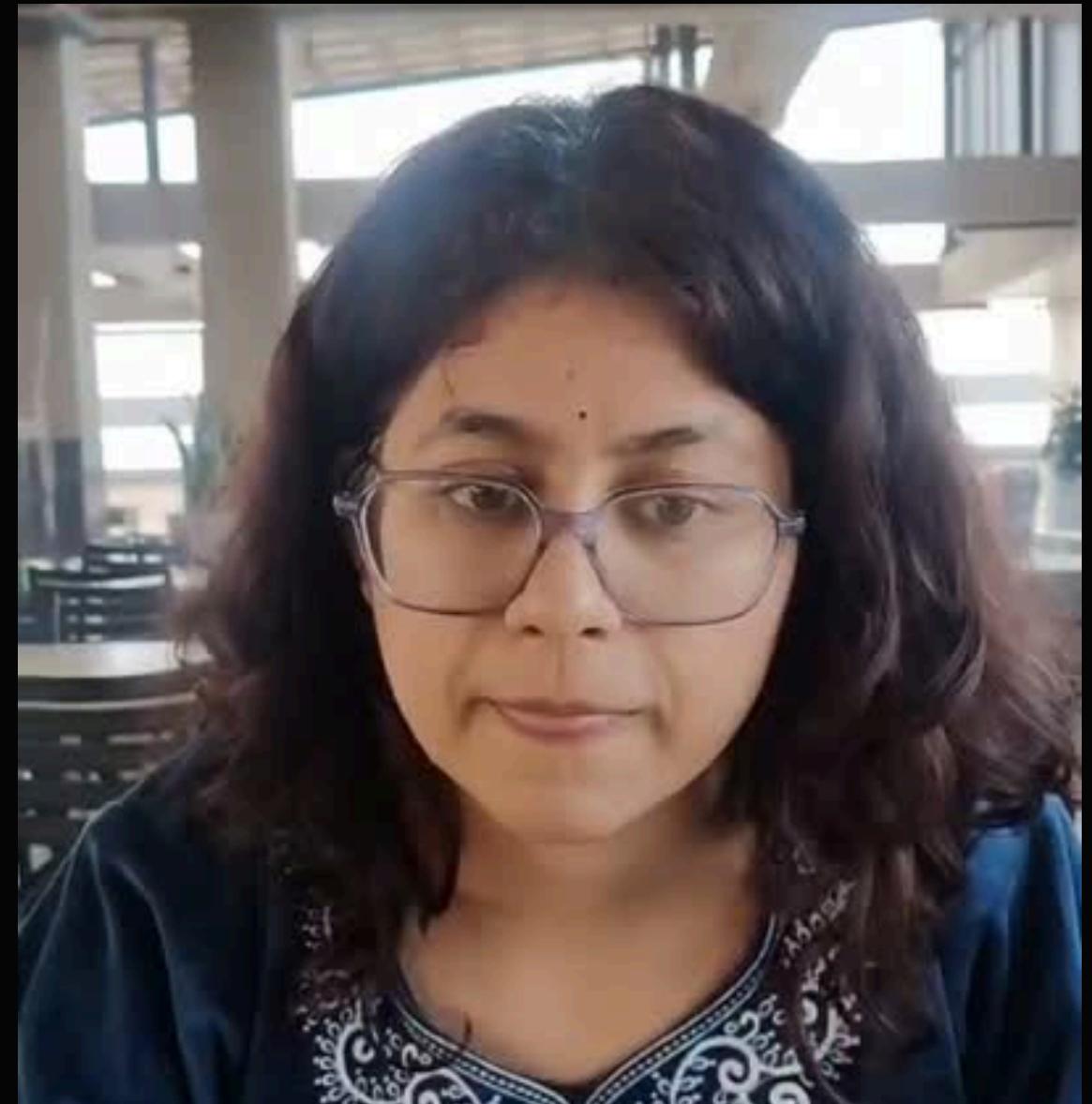
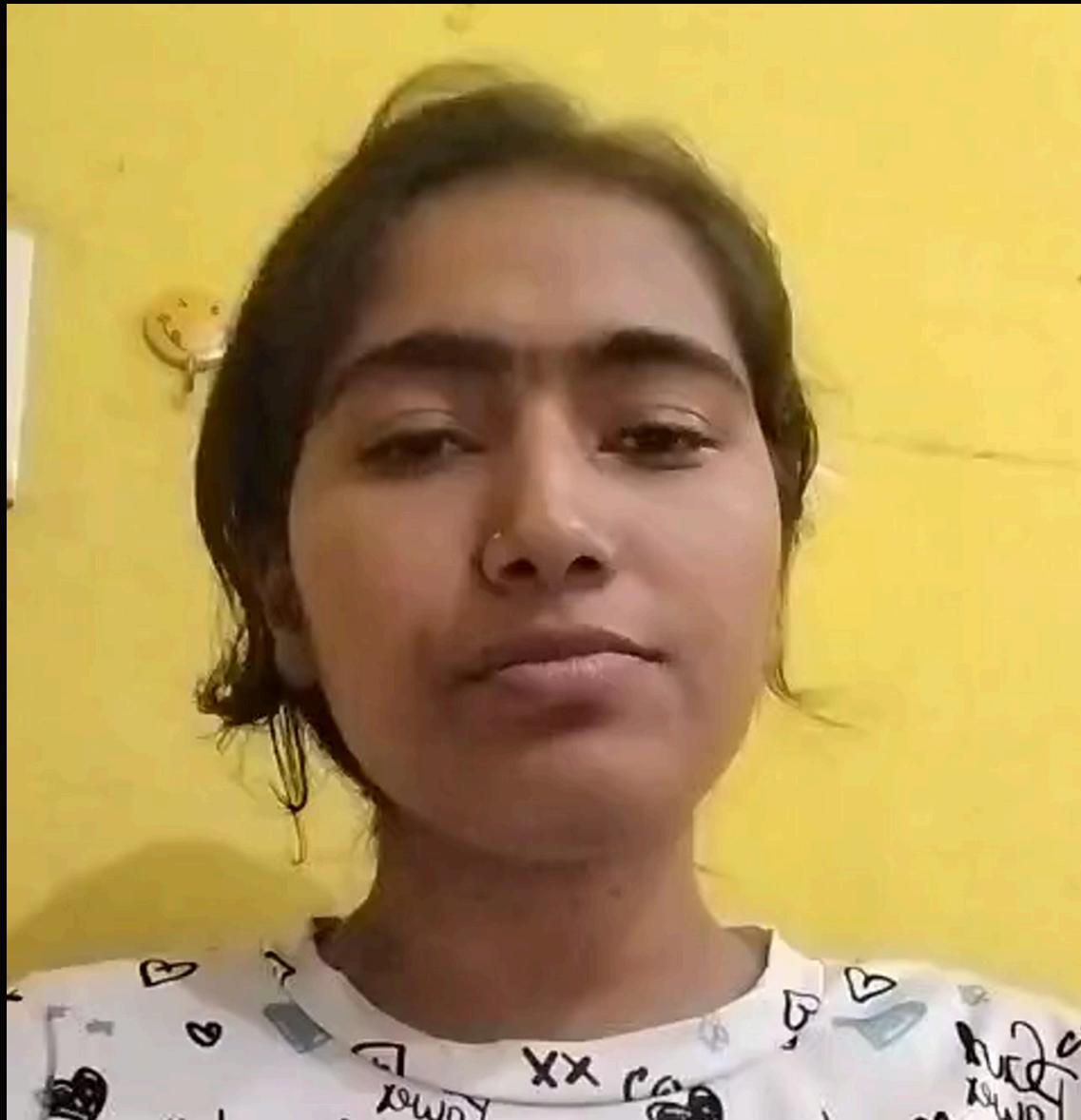
## Onboarding Flow

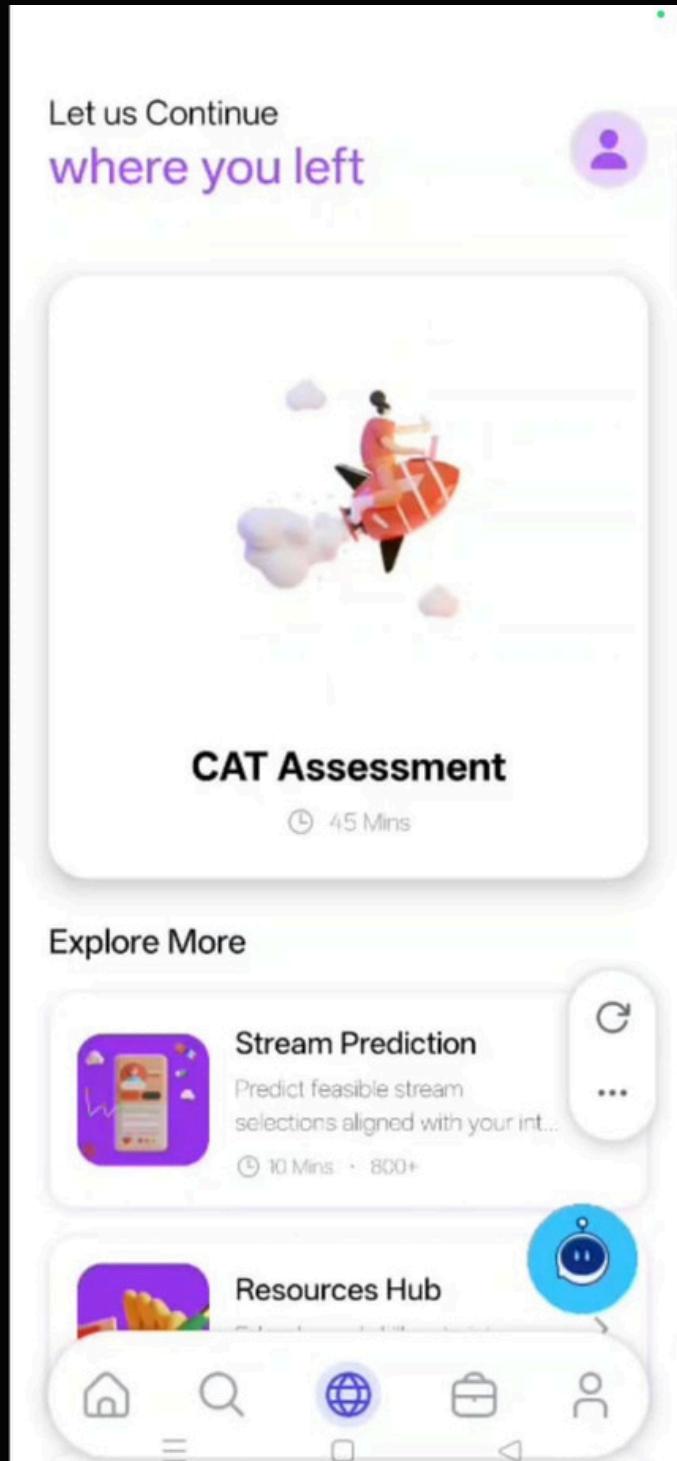
1. Flawless sign up with role and auth with simple email and password or one click sign in through google auth
2. Onboarding Questions help us to segregate the student base to offline segments.
3. Questions on level, broad interests and motivation helps the algorithm to refine the segments



We conducted targeted interviews with students from J&K.

Here are the videos :-





# CAT Assessment Process

## Step 1: Begin Your Journey

During onboarding, the system analyzes student's responses and generates questions tailored to their interests, ensuring a more relevant and engaging experience.

## Step 2: Proceed to the next phase of the process.

Answer all questions thoroughly this section is critical, so explore each feature and provide complete responses.

## Step 3: Proceed to the next phase of the process

After completing the assessment process, you will receive a clear roadmap that identifies the optimal career path to achieve your goals. This structured approach helps you stay focused and prevents distractions from alternative pathways that may not align with your strengths and objectives.

# OFFLINE FUNCTIONALITY

Works on low or no internet

1. User actions are stored offline
2. Works on cache storage
3. LLM model capable of running on small devices



# AI CHATBOT

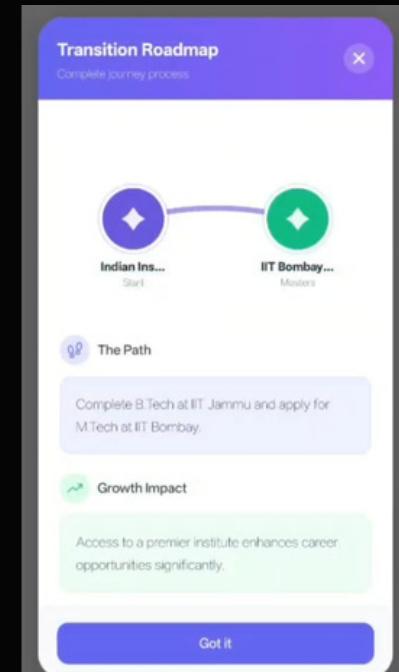
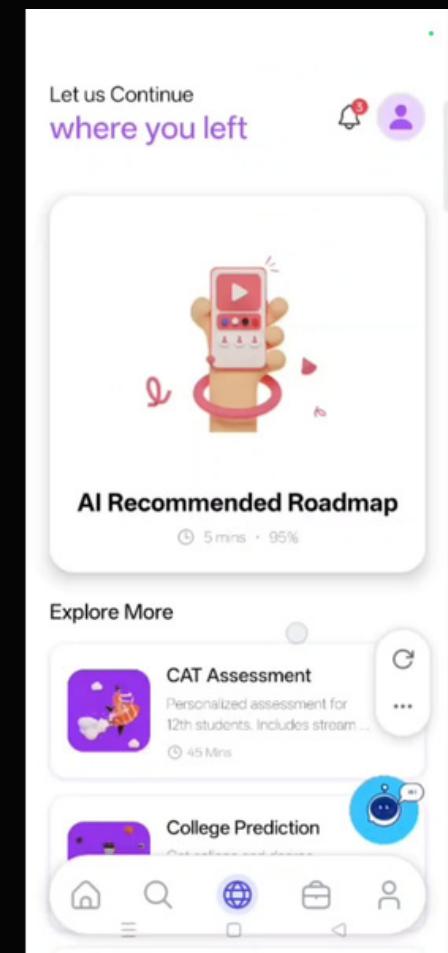
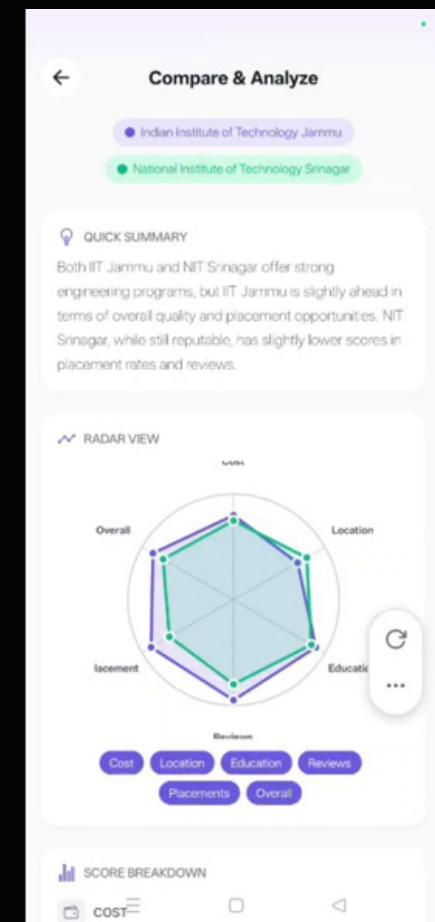
1. Instant answers to student queries.
2. 24/7 support, anytime anywhere.
3. Acts as a friendly, smart study companion.



# AI GAMIFIED ROADMAP

## Compares different paths

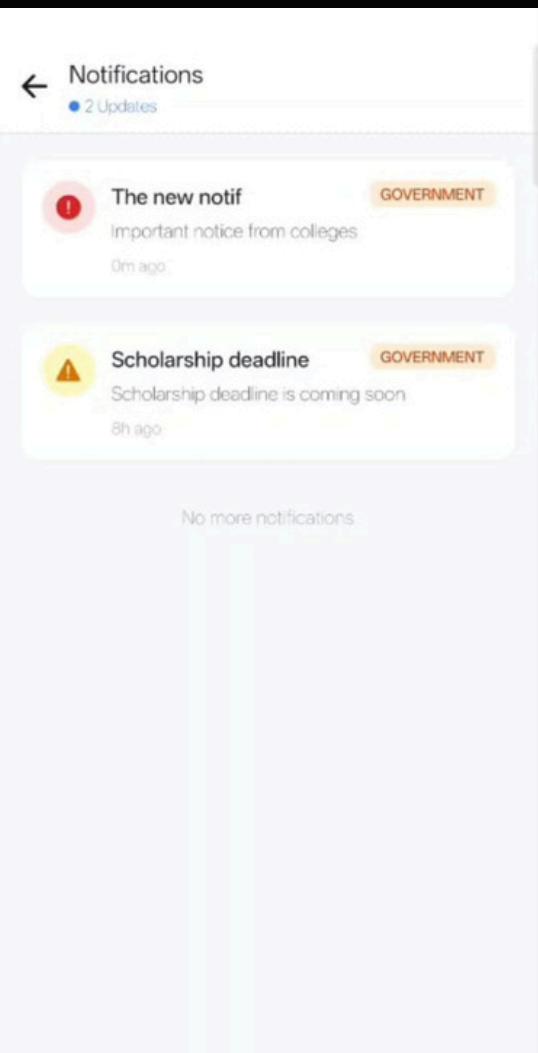
1. To guide students step-by-step toward their ideal career according to their interests and aptitudes
2. Side-by-side course & career comparison providing clarity and comprehensive insights
3. Assists students in selecting the optimal educational and professional pathway



# SMART ALERTS

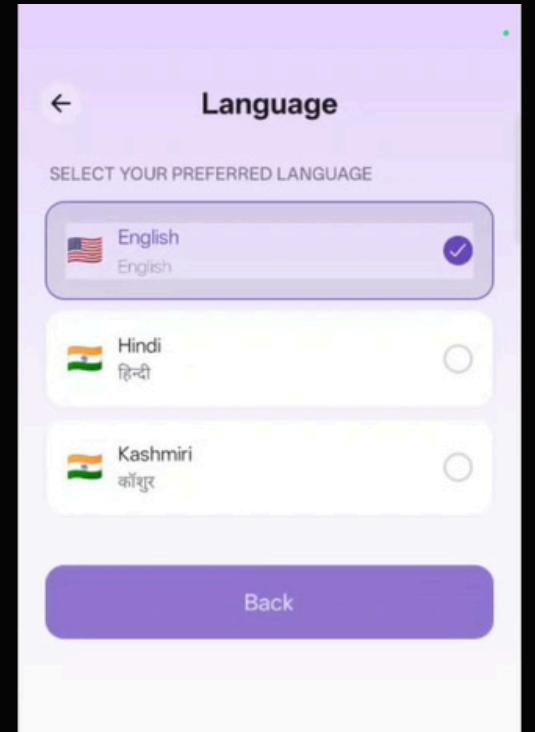
## Keeps you up-to-date

1. WhatsApp/SMS notifications will be sent to keep you informed
2. Various relevant scholarships available for eligible students
3. Government schemes including National Scholarship and other financial assistance programs
4. Particularly beneficial for students from economically disadvantaged backgrounds



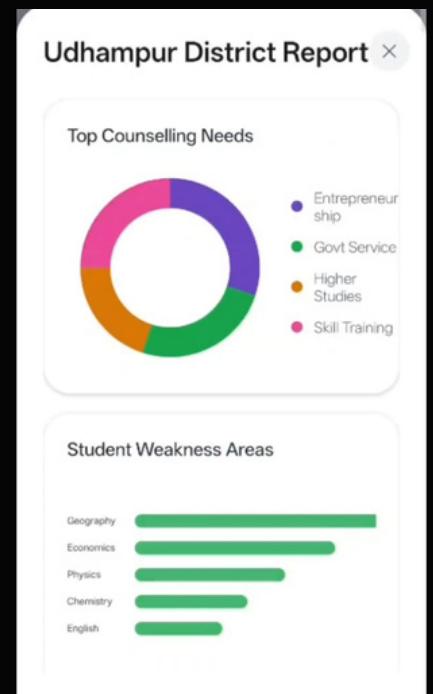
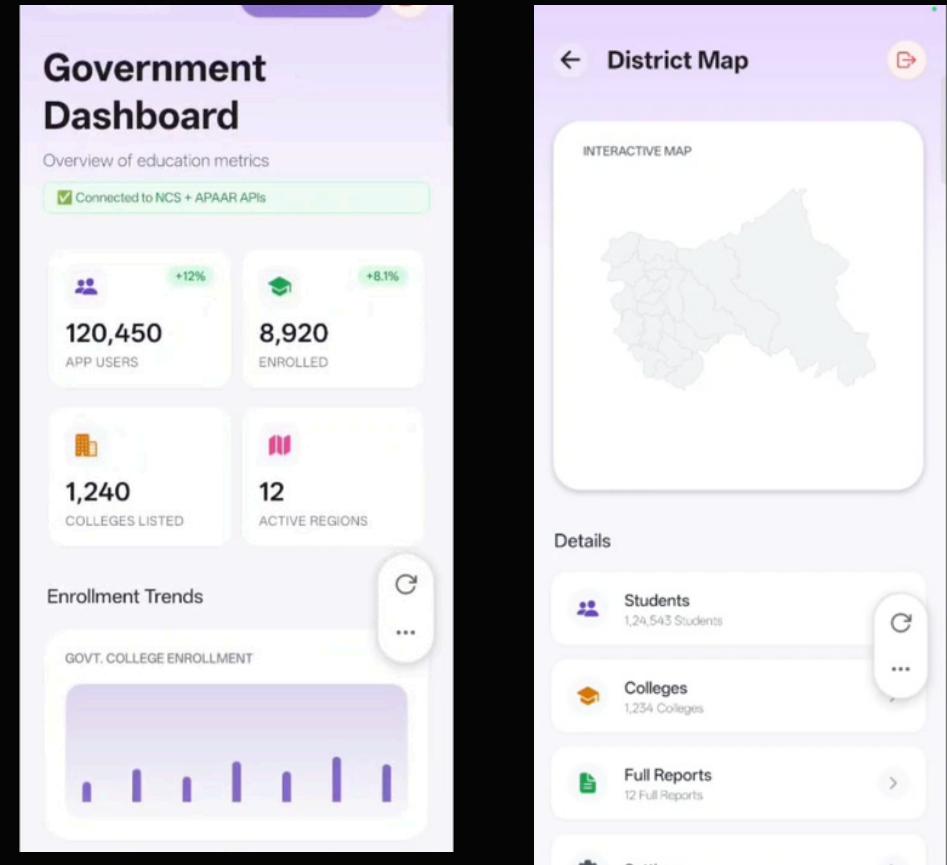
# Multilingual Support

1. Provides complete multilingual support for users
2. Allows switching to Kashmiri or other local languages
3. Entire app interface adapts to the selected language
4. Enhances accessibility and comfort for regional students



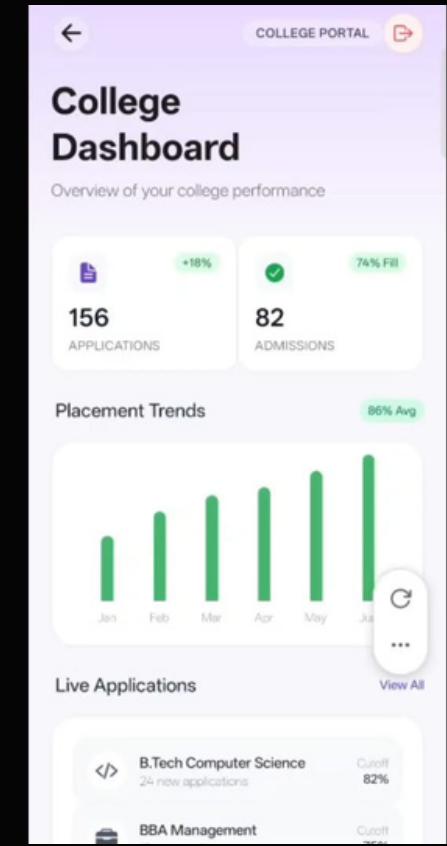
# GOVERNMENT DASHBOARD

- 1) Government officials can log in using their official ID and password.
- 2) A clickable map of Jammu & Kashmir provides district-wise insights.
- 3) View detailed reports on counselling needs across districts.
- 4) Identify common student weakness areas and learning gaps
- 5) Track government college admission trends and demand patterns.
- 6) All reports are fully downloadable for documentation and analysis.

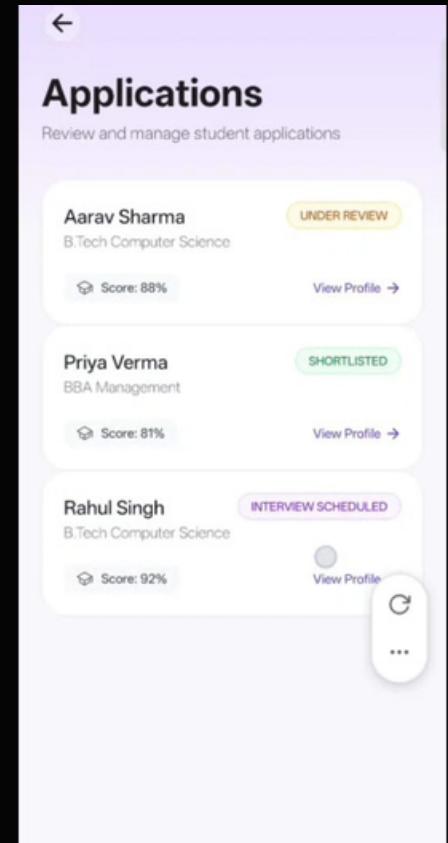


# COLLEGE DASHBOARD

1) Overview of overall college performance and key metrics.



2) Track applications, admissions, and year-wise trends



3) Monitor placement statistics and patterns

4) Review and manage incoming student applications

The form allows users to enter alumni information: Full Name (Enter alumni name), Current Company (e.g. Google, TCS), Role (e.g. Software Engineer), and Passing Year (e.g. 2022). A purple "Save Profile" button is at the bottom.

5) Add and maintain alumni information for mentorship and networking

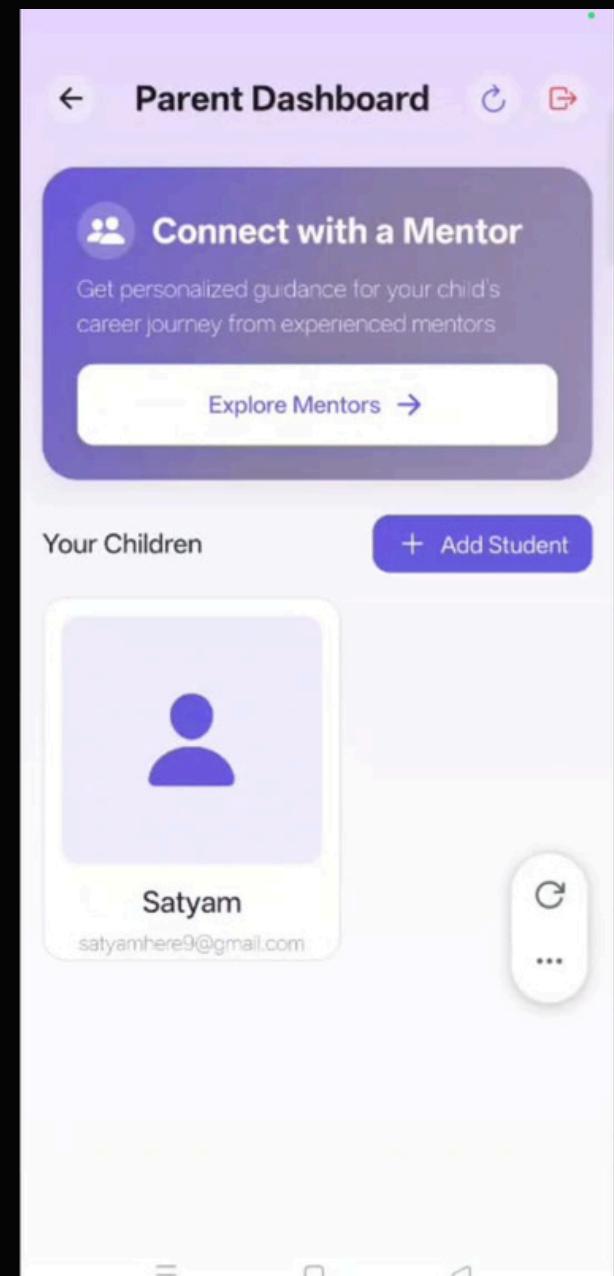
# **MENTOR DASHBOARD**

- 1) Students can interact with experienced professionals for real guidance.
- 2) Students can connect with fellow learners to share knowledge and experiences.
- 3) Personalized suggestions on courses, career paths, and future opportunities.
- 4) Quick chat or call support to clear confusion without delays.



# PARENT DASHBOARD

- 1) Introduced a dedicated Parent Dashboard to improve awareness among students and their parents
- 2) Allows parents to track their child's academic progress and development
- 3) Enables parents to view their child's interests and learning preferences
- 4) Provides clarity and transparency into the student's learning journey and growth





MANTRIX

# THANK YOU!

Team Null Pointers