

Department of CSE (Data Science)

Project Presentation on

AI Guruji

AI Powered Career Guidance Platform

Presented By

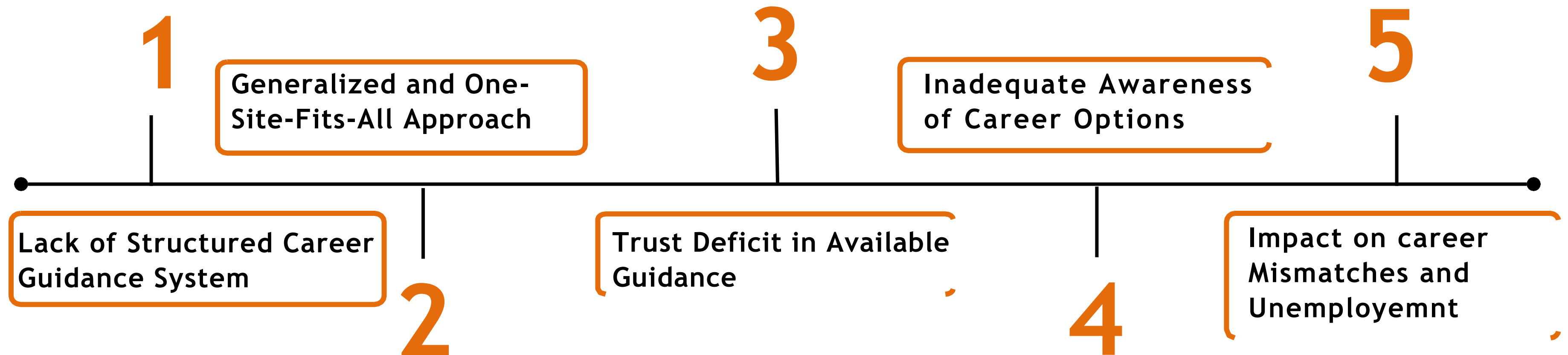
Sr.no	Name of students	Year	Div
1	Anuj Ravindra Pawar	B.Tech	A
2	Satyam Vinod Panchal	B.Tech	A
3	Sakshi Ashok Gaikwad	B.Tech	A
4	Sudarshan Ankush Dhumal	B.Tech	A

Mr.S.K.Patil
Project Coordinator

Dr. G. V. Patil
Head of Department

PROBLEM STATEMENT

The problem being addressed is the lack of accessible, personalized, and holistic career guidance for secondary-level students. The current approach often lacks individualization and trust, leading to uninformed career choices and potential mismatches between students' abilities and chosen paths.



Persona

Name: Sarah

Age: 16

Grade: 10th

Background: Sarah is a high school student who is trying to figure out what career path to pursue after graduation. She enjoys a variety of subjects but feels overwhelmed by the multitude of options available. She wants guidance to help her explore her interests, skills, and passions to make an informed decision about her future career.



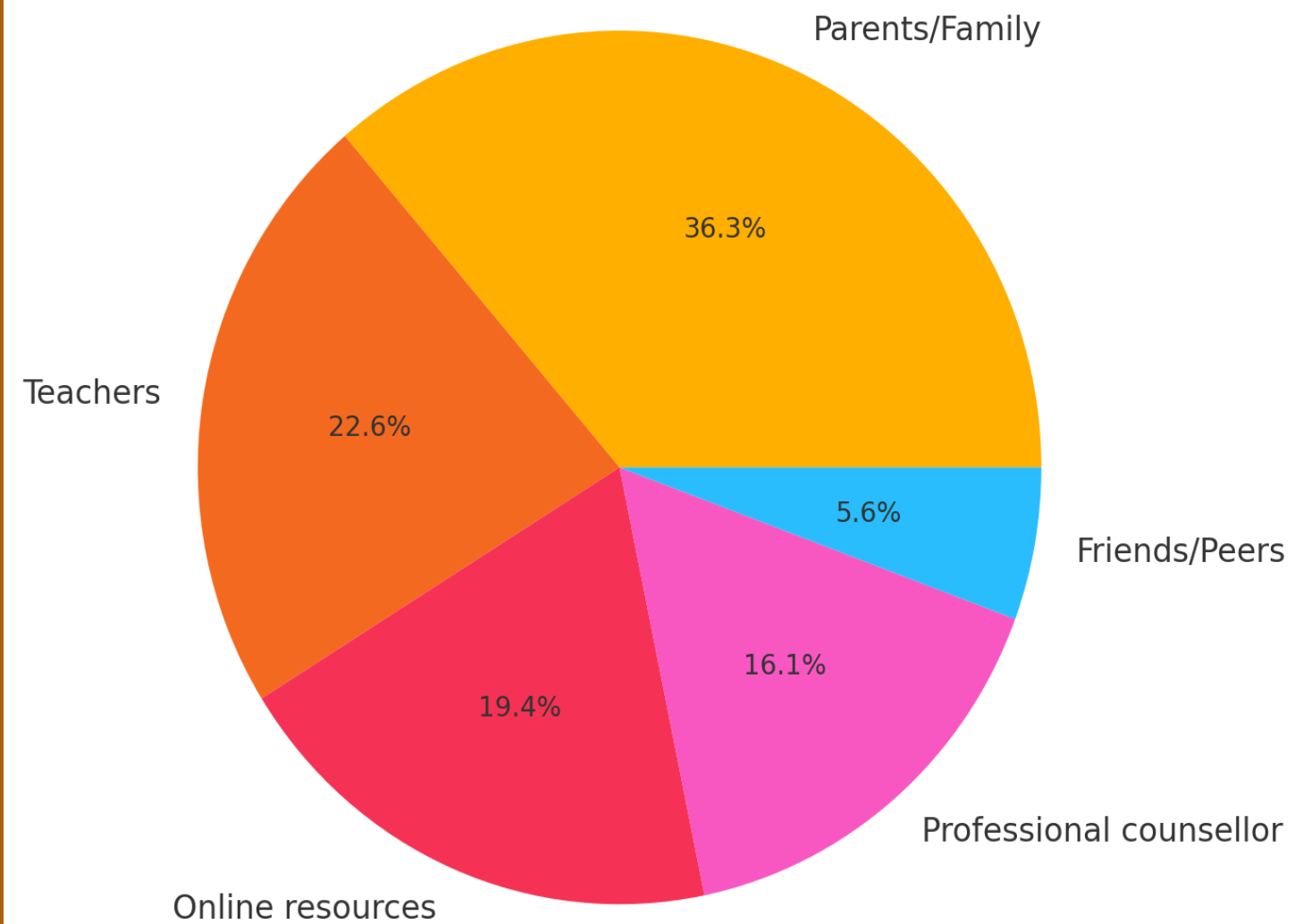
Why this project ?

Survey was conducted for the Students and their Parents

Students Questionaries	Parents Questionaries
1. How often does your school organize career guidance or counselling sessions?	1. How often does your child's school provide career guidance or counselling sessions?
2. How many different career options can you name right now? (including fields like technology, design, entrepreneurship, etc.)	2. Has your child ever taken a career assessment test (aptitude, psychometric, interest-based, etc.)?
3. Who do you primarily consult for career-related advice?	3. What do you think are the biggest barriers to effective career guidance for students? (Select 3 to 4)
4. Are you aware of any online platforms or apps for career guidance?	4. Would you be open to your child receiving career guidance from an AI-powered platform (with assessments, chatbots, etc.)?
5. How involved are your parents in your career decision-making?	5. What features would you value most in a career guidance platform for your child?
6. Would you like to use an AI-powered platform for personalized career guidance?	

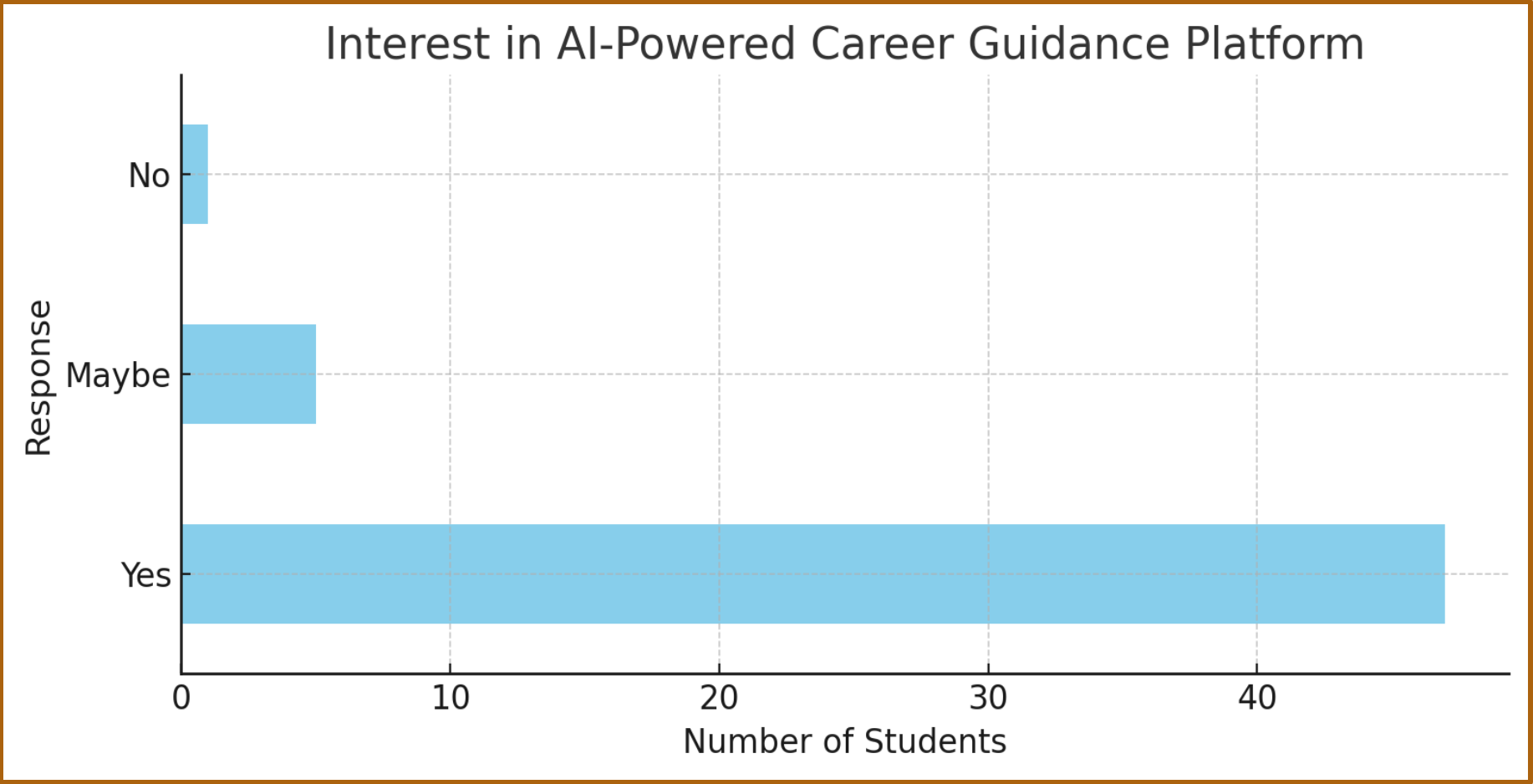
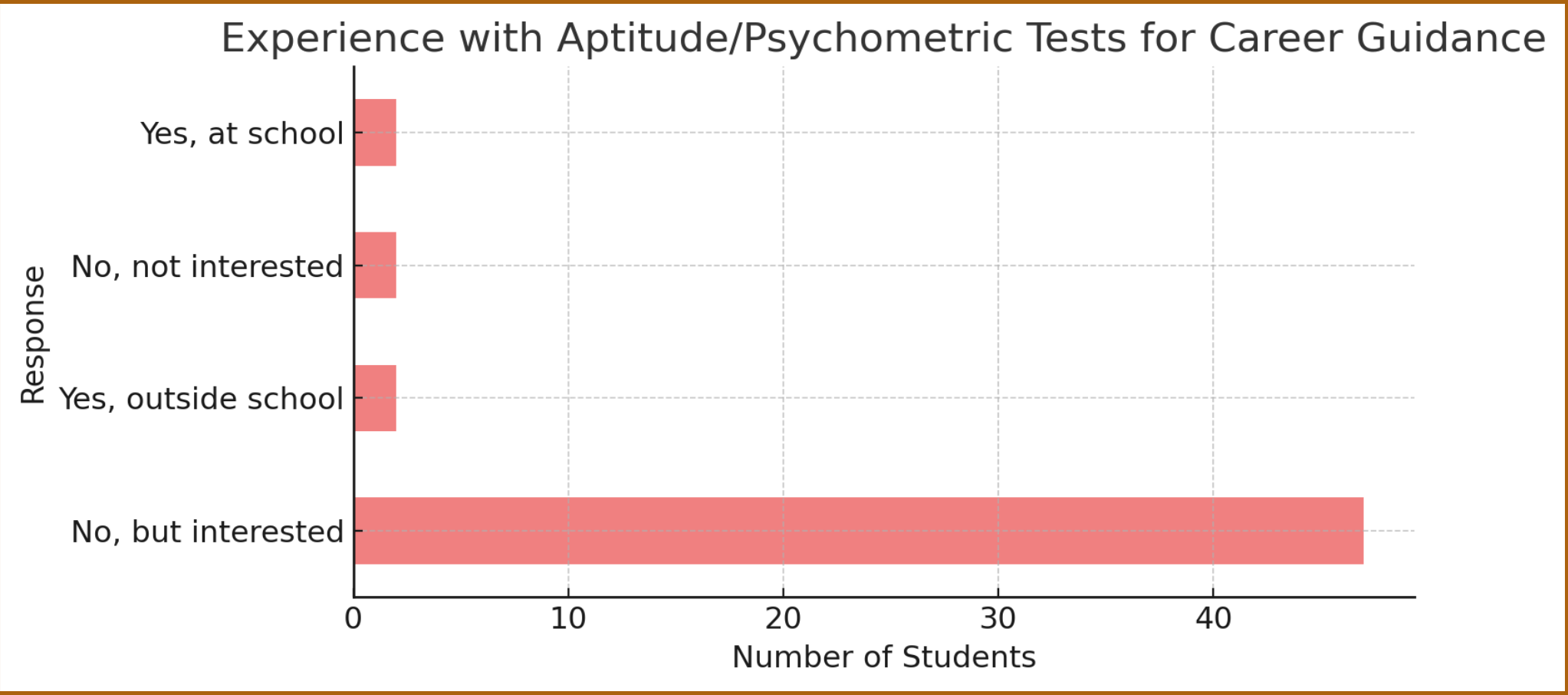
Survey Result

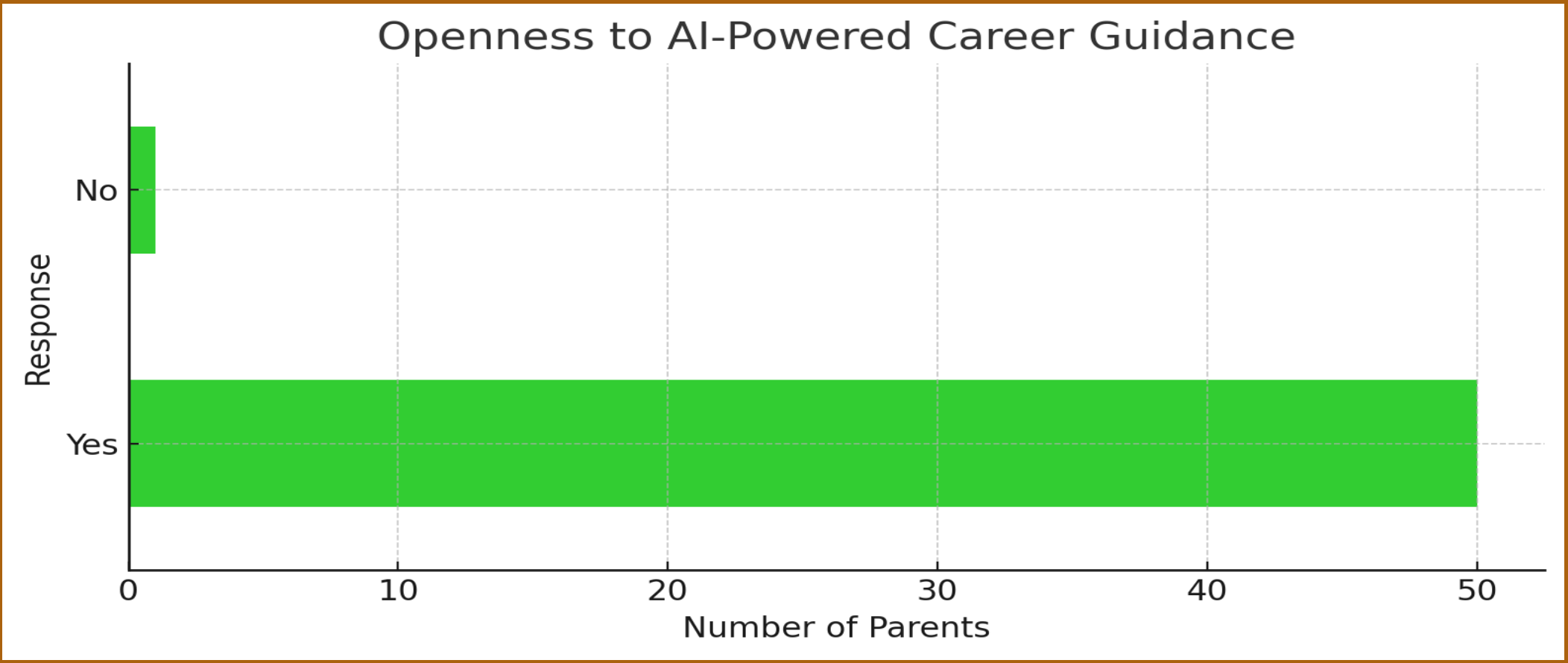
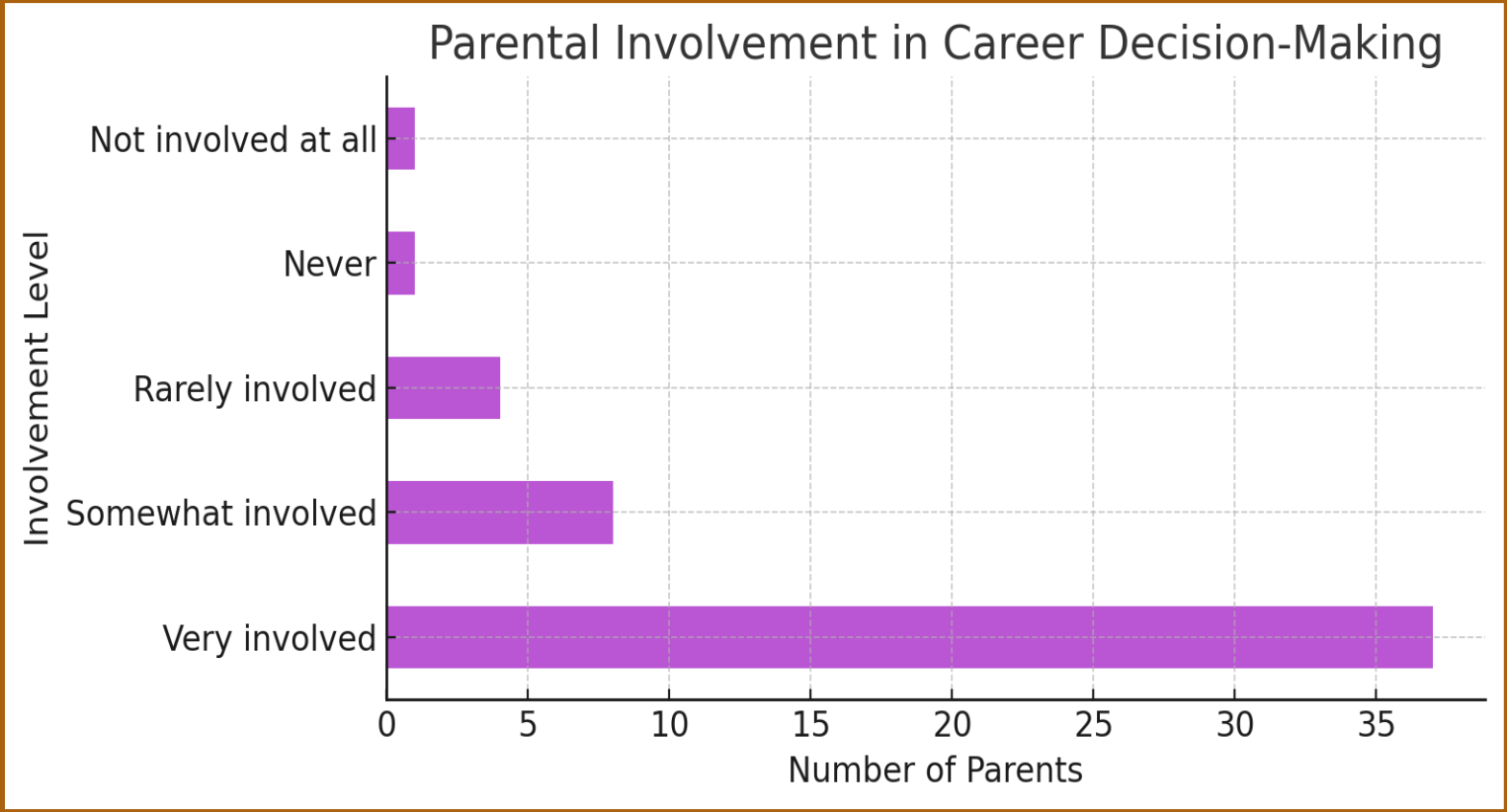
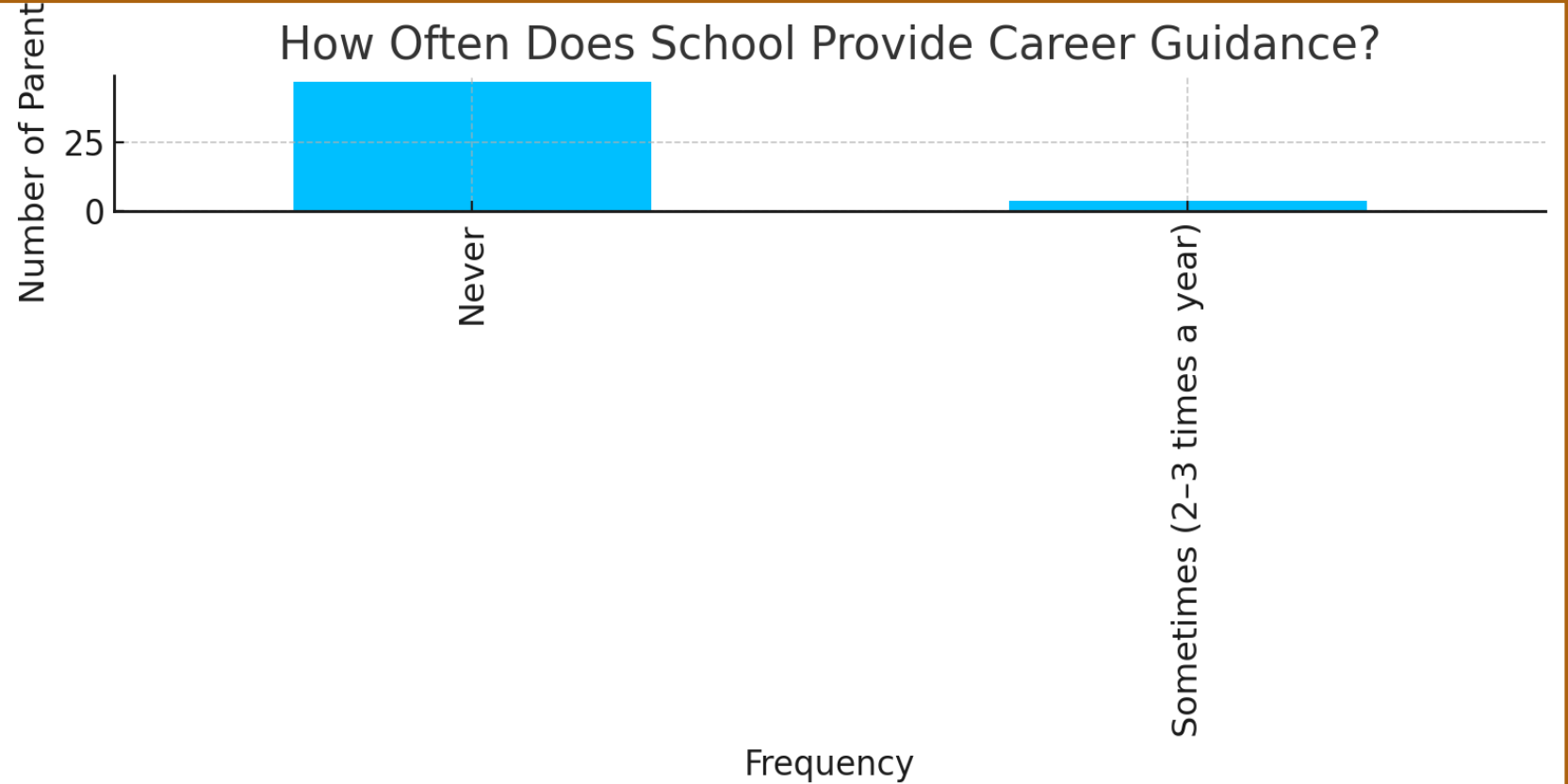
Primary Source for Career-Related Advice



Confidence in Choosing Future Career Path







Objectives

The primary objective of this project is to bridge the gap in personalized and credible career guidance for secondary-level students across India. Our solution is aimed at enabling students to make informed, confident career decisions that align with their unique talents, aspirations, and circumstances. By leveraging technology and data-driven methodologies, we strive to transform the career counselling landscape for young learners.

1

To provide personalized career recommendations based on each student's unique abilities, interests, aptitudes, and personality traits.

2

To enhance awareness of diverse career options beyond traditional mainstream

3

To empower parents and educators with actionable insights, progress reports, and resources to support students' career journeys.

4

To ensure equitable access to career guidance for students from all socio-economic backgrounds, including those in rural and under-resourced areas.

5

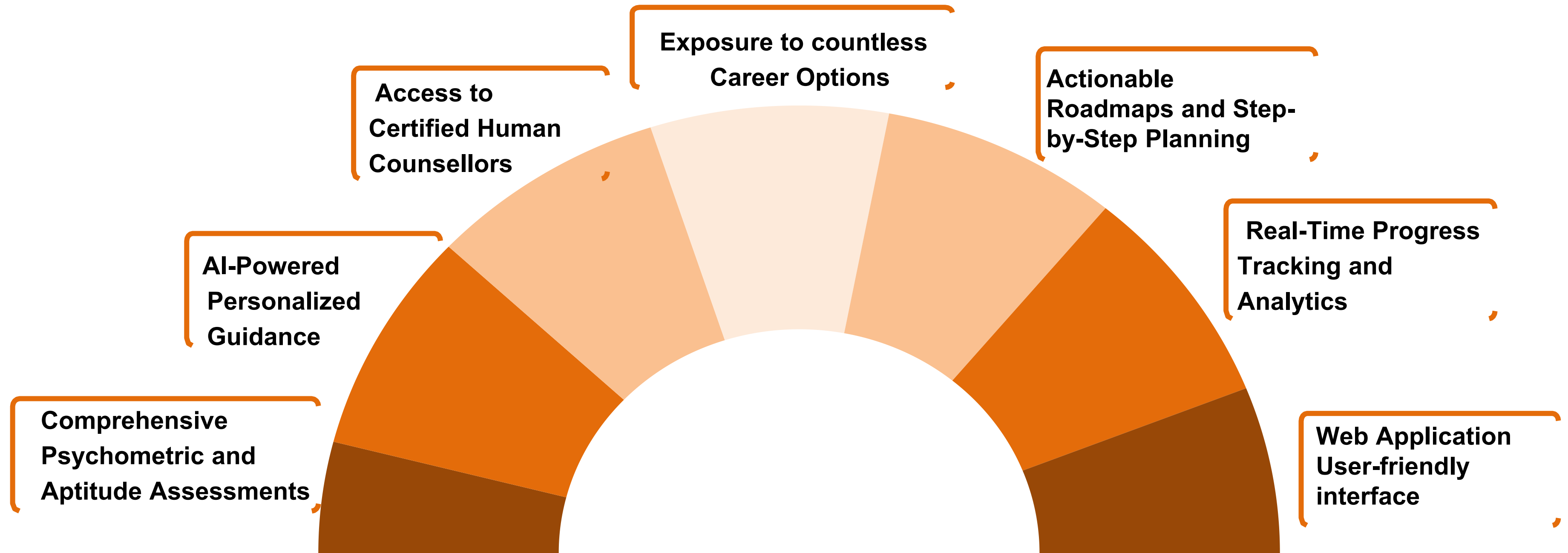
To reduce skill mismatches and improve employability by guiding students toward educational and career paths that best fit their strengths and aspirations.

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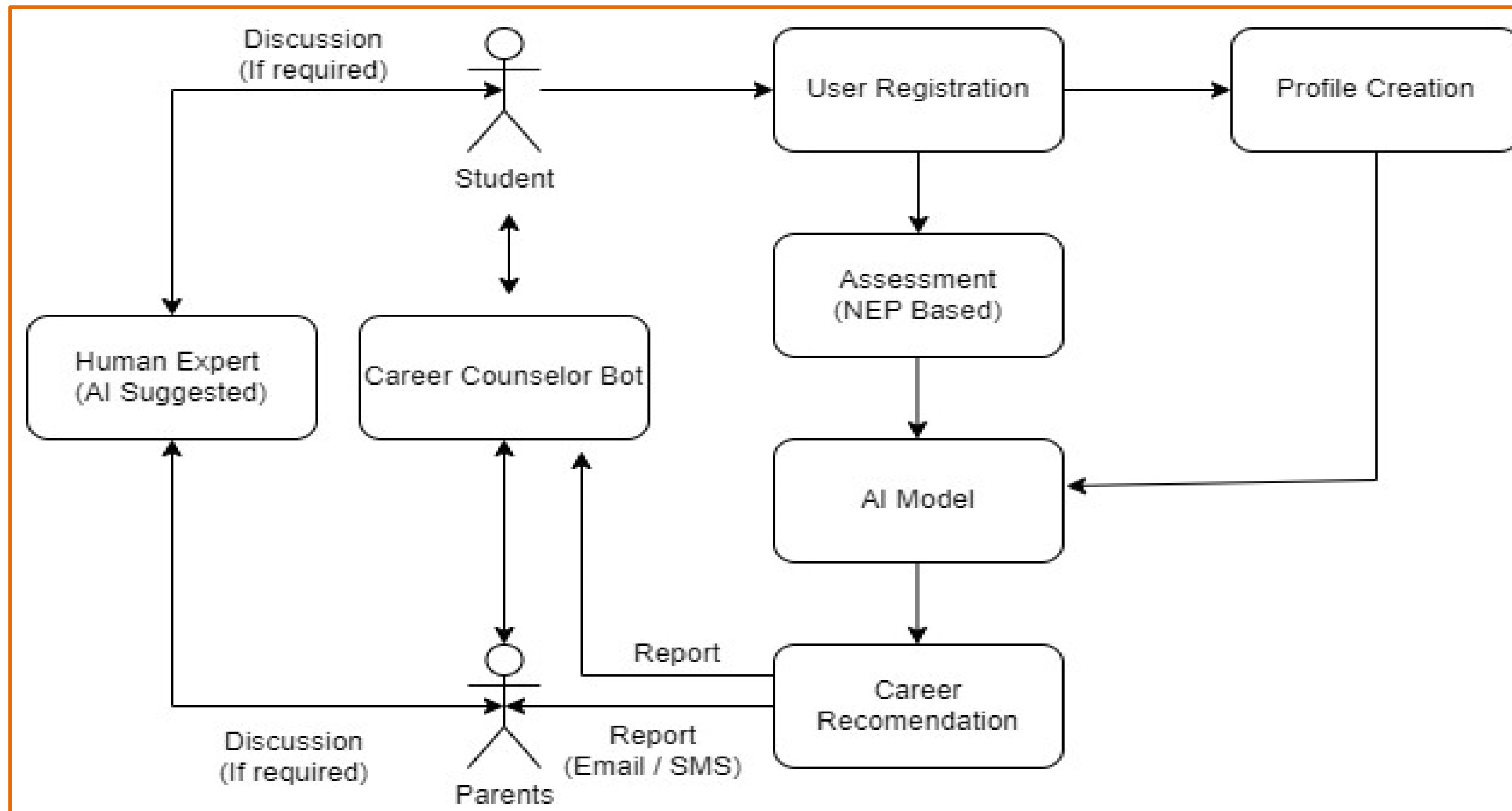
To promote informed decision-making and self-confidence in students by equipping them with reliable information, personalized guidance, and the skills needed to independently evaluate and pursue suitable career opportunities.

Our Approach & Key Features

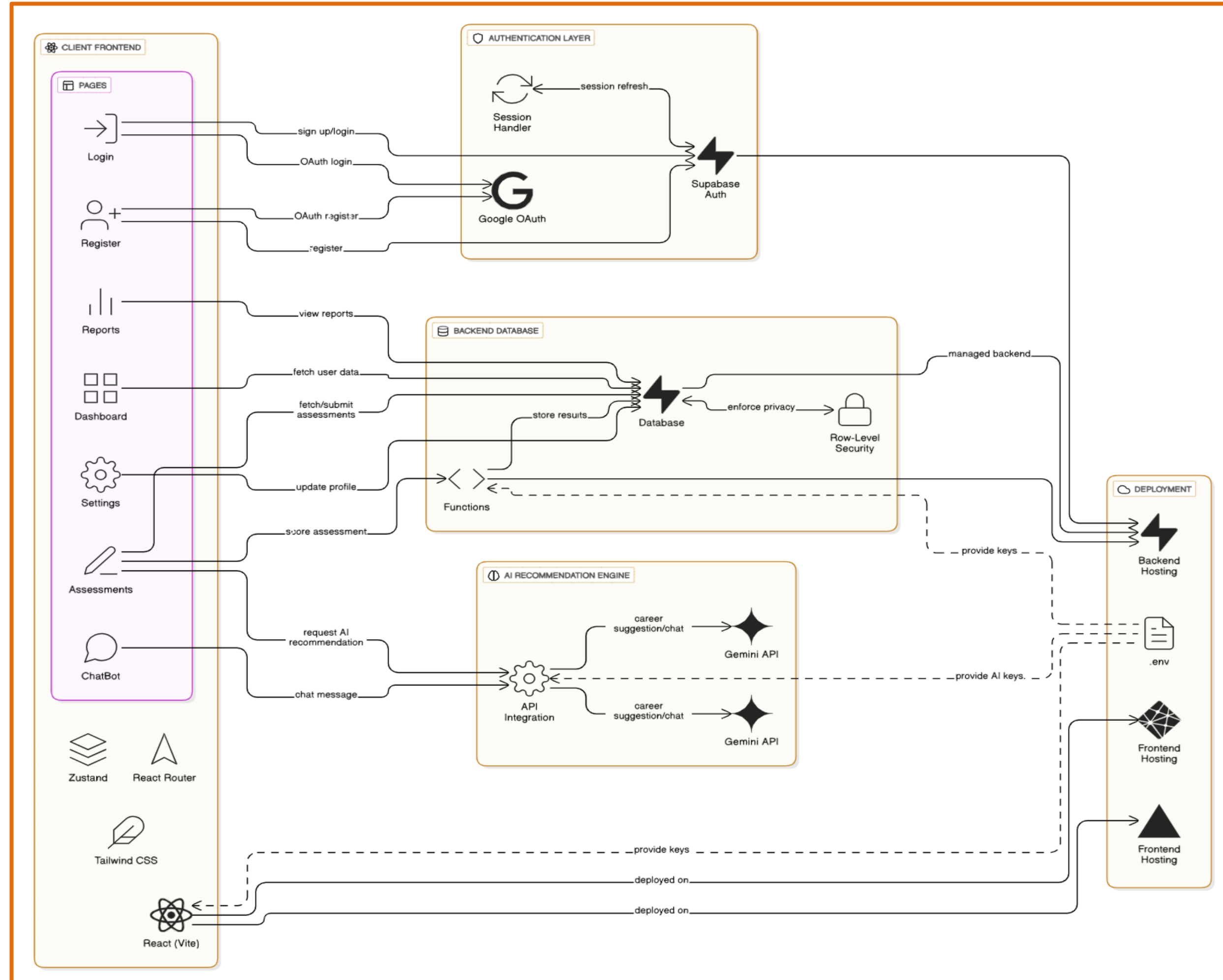
Our platform adopts an innovative, multi-dimensional approach to career guidance, integrating advanced AI with human expertise. By combining psychometric testing, instant AI-driven support, and real-world mentorship, we create a holistic and inclusive ecosystem that places every student's individual potential at the center of their career planning journey.



Flow Diagram



System Architecture



Tech Stack

To deliver a robust, scalable, and user-friendly career guidance platform, we have selected a modern and versatile technology stack. Our choices ensure rapid development, seamless user experience, real-time data handling, and the flexibility to integrate advanced AI-driven features.

➤ Frontend

React 18

TypeScript

Vite

Tailwind CSS

Framer Motion
(for animations)

Backend

Node.js (with
Express)

➤ Database

MongoDB

SupaBase

Conclusion

The AI-powered career guidance platform aims to revolutionize how secondary-level students in India make critical academic and professional decisions. By blending cutting-edge technology with personalized assessments and expert mentorship, the solution directly addresses existing gaps in traditional career counselling. This approach empowers students, supports parents, and builds a stronger foundation for India's future workforce.

1

Personalized Guidance: Each student receives recommendations suited to their unique abilities, interests, and aspirations.

2

Increased Awareness: Students explore diverse career paths, including emerging and unconventional fields.

3

Equity and Inclusion: The platform ensures all students—regardless of geography or background—can access quality guidance.

4

Motivation & Confidence: Ongoing mentorship, goal-setting, and achievement tracking boost student morale and engagement.

Thank You!