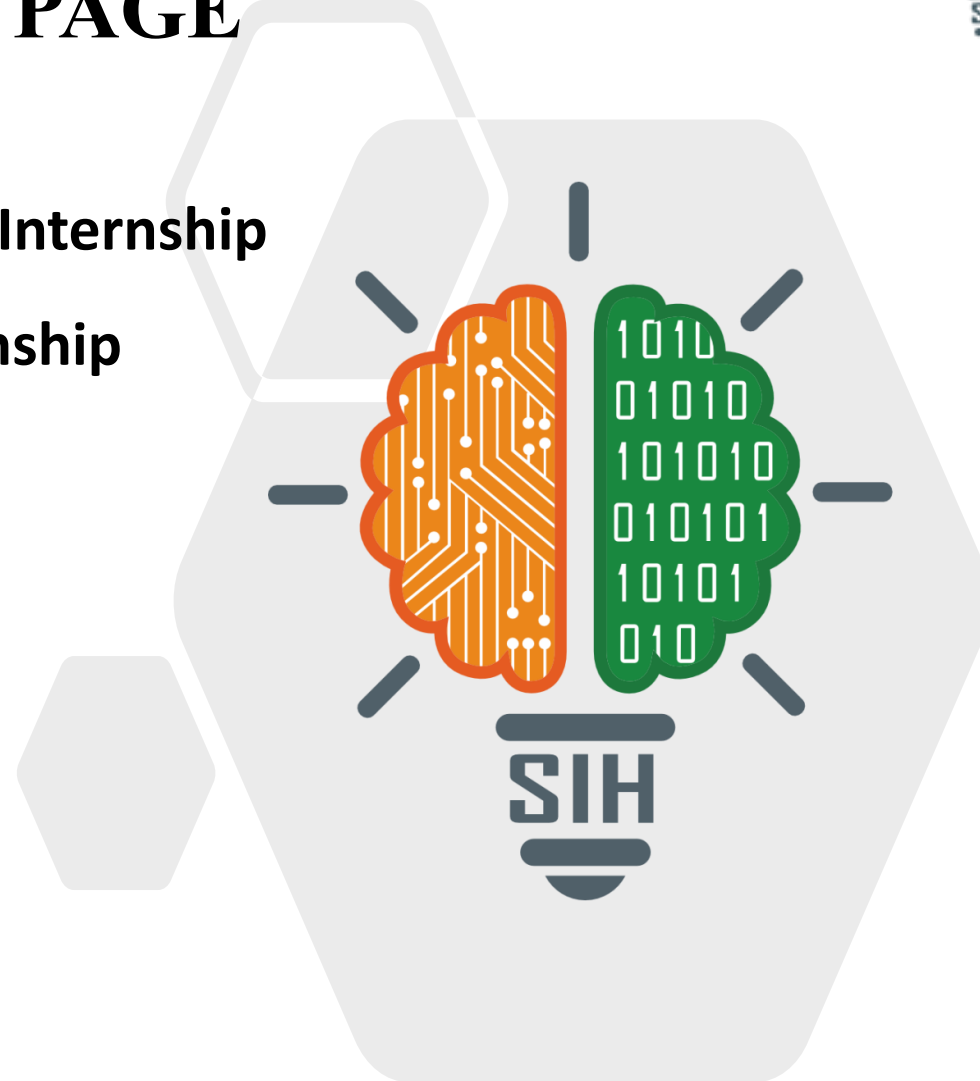


SMART INDIA HACKATHON 2025



TITLE PAGE

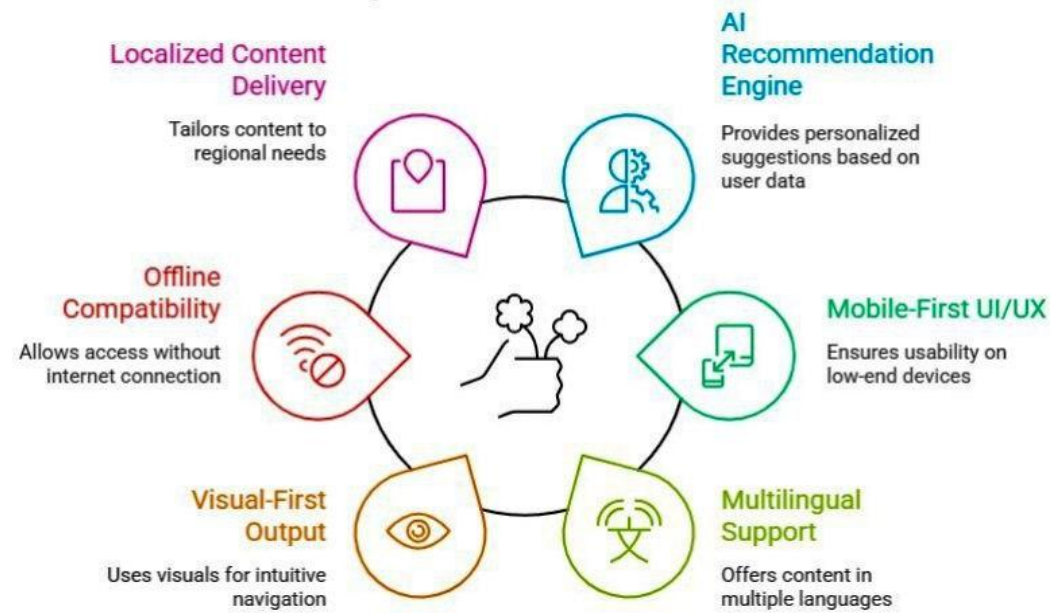
- **Problem Statement ID – SIH25034**
- **Problem Statement Title- AI-Based Internship Recommendation Engine for PM Internship Scheme**
- **Theme- Smart Education**
- **PS Category- Software**
- **Team ID-106873**
- **Team Name :- Tech Titan**



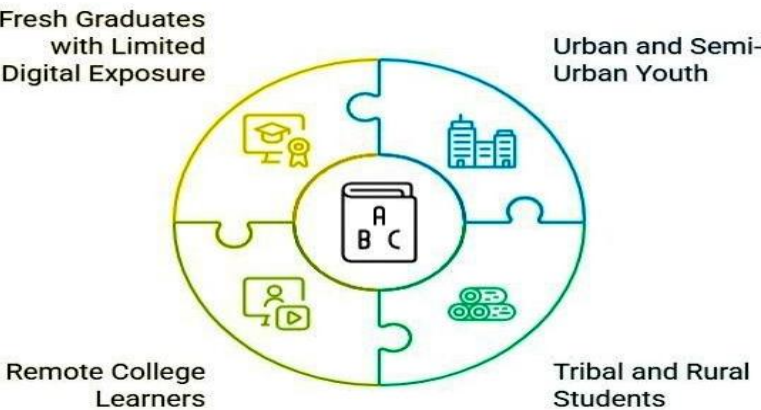
Proposed solution:-

We designed a lightweight, **AI-powered recommendation engine** with **multilingual** support and **mobile-first architecture** to empower underserved youth in rural and semi-urban regions. The system ensures digital inclusion by offering personalized internship suggestions in regional languages, optimized for low-bandwidth environments. This platform is designed to be **simple, mobile-friendly, and accessible** to youth from diverse backgrounds, including those with limited digital literacy. This solution promotes **digital inclusion, career readiness, and equitable access** to internships for youth across India. It aligns with **Tech for Social Good** principles and is designed for **scalable deployment** via government and community platforms.

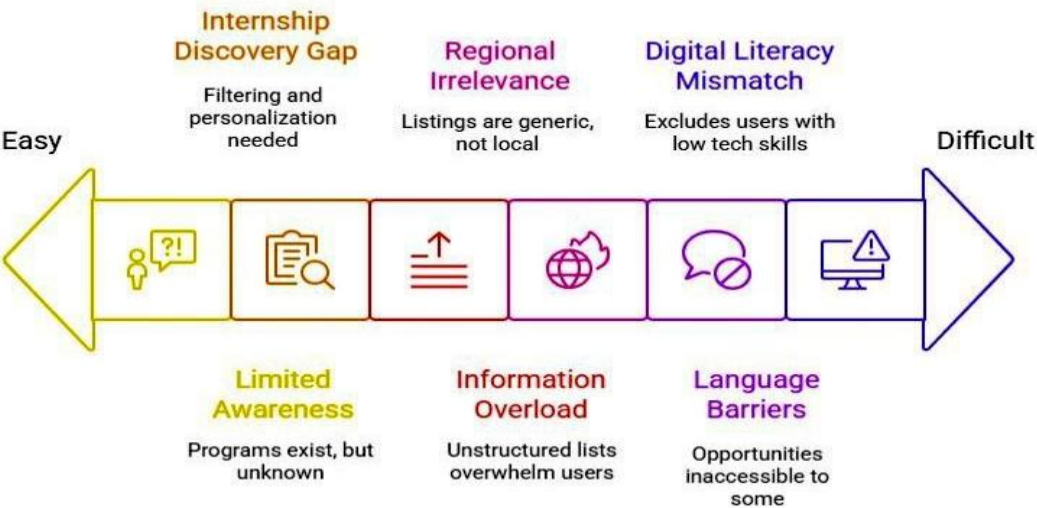
KEY FEATURES AND SOLUTIONS



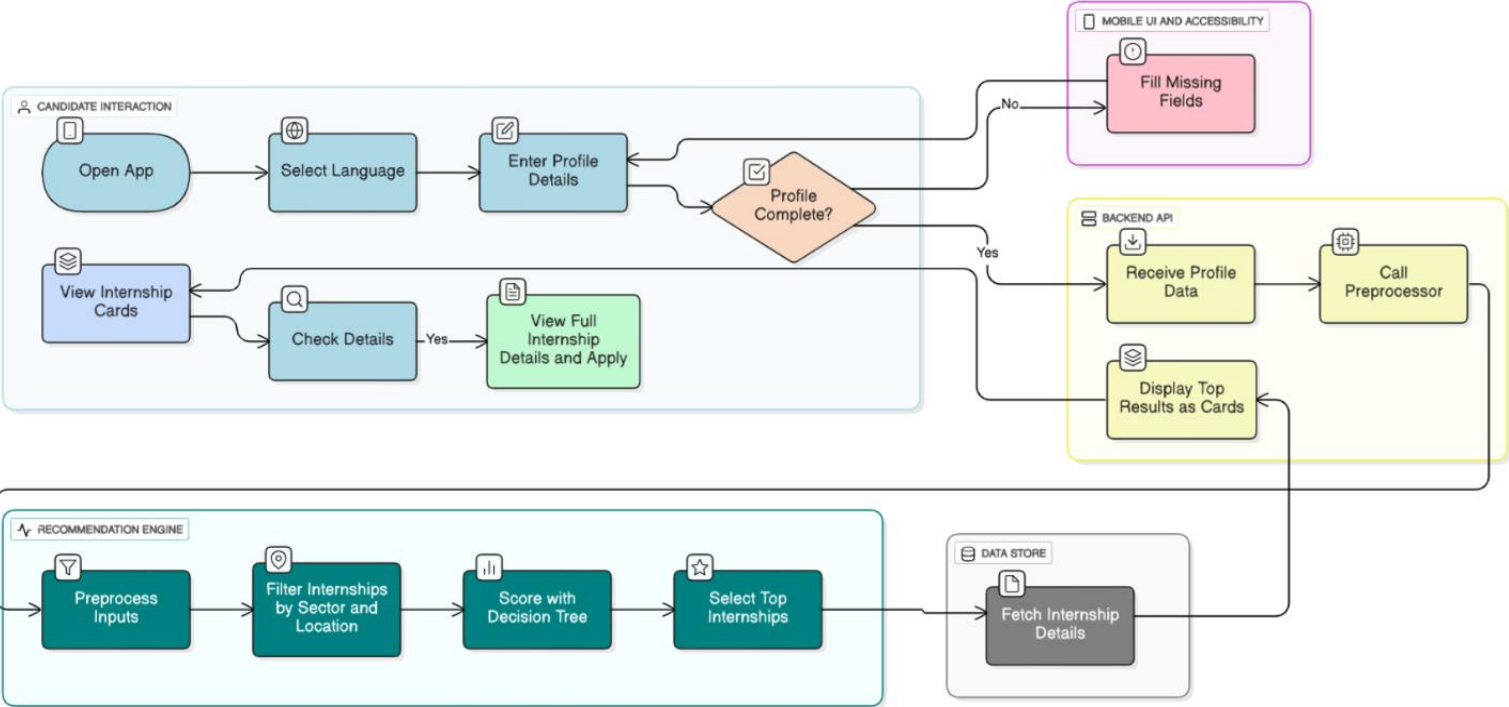
UVP



PROBLEMS ADDRESSED



TECHNICAL FLOW



TECHNICAL FLOW

Frontend: JavaScript, Tailwind CSS, Progressive Web App, i18next
Backend: Python, Flask, Node.js, Express, REST API, Docker
Database: MySQL, SQLite, Elasticsearch

INPUT

Personal Information: Name , age, gender
Educational Background
Location Preferences: State, City
Work Mode Preferences: Onsite, Remote, Hybrid
Interests and Skills

OUTPUT

Tech Trainee

Global Solutions

Bangalore, Karnataka

IT & Software Development

40% Match

✓ ₹5,000 Monthly Stipend

✓ ₹6,000 One-time Grant

✓ Health Insurance

✓ Industry Certificate

Junior Executive

Prime Industries

Kanpur, Uttar Pradesh

Banking & Financial Services

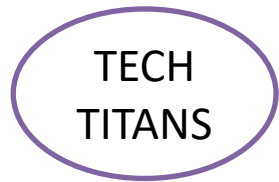
40% Match

✓ ₹5,000 Monthly Stipend

✓ ₹6,000 One-time Grant

✓ Health Insurance

✓ Industry Certificate



FEASIBILITY AND VIABILITY



Technical Feasibility

Our **AI-based** recommendation engine uses a lightweight **hybrid model** with smart **skill mapping, multilingual support,** and **mobile-friendly** UI, easily integrated into the PM Internship portal for low-literacy, low-connectivity users.

Legal and Ethical Feasibility

It guarantees that the system follows a **consent-first** design, respects **data privacy,** complies with Indian laws, remains **transparent,** **prevents bias,** and provides fair, trustworthy, and inclusive recommendations for all candidates.

Operational Feasibility

The **AI-driven** recommendation engine uses simple mobile UI, **real-time updates, voice support, offline/SMS fallback,** and quick training modules, ensuring smooth adoption for rural, low-literacy youth and administrators.

Trend & Market Feasibility

The recommendation engine aligns with **India's AI-in-governance** and **Digital India** trends, bridges the internship discovery gap for under served youth through hyper-personalized, **voice-enabled, geo-smart matching,** and offers **scalable, inclusive** career guidance across ministries.

❗ PROBLEM	💬 DESCRIPTION	✅ SOLUTION
Complex portals	Rural and low-literacy youth face barriers using complex job portals.	<ul style="list-style-type: none">• Visual Internship Cards : Pictorial cards with logos and simple icons for quick understanding.• Skill Proofing :30–60 second micro-tasks that quickly verify a candidate’s claimed skill and produce a simple score tag for matching.
Irrelevant applications	Students lose valuable time applying to irrelevant opportunities.	<ul style="list-style-type: none">• Fit-Score Ranking : Each internship carries a % match score to help students pick the most relevant ones• Time Saving Recommendation Loop : The system learns from every click and past application to continuously refine suggestions. Over time, it predicts better matches faster.
No career guidance	First-generation learners lack awareness and career guidance.	<ul style="list-style-type: none">• Career Story Audios : short, local-language audio stories of relatable role models, clips that build awareness and aspiration.• Scholarship & Scheme Highlight : automatically surface relevant government skilling schemes and short course subsidies beside internship recommendations.

IMPACT ON TARGET AUDIENCE :-



STUDENT

- **Personalized Matches:** AI aligns internships with skills, interests, and goals.
- **Enhanced Employability:** Gains hands, industry-relevant experience.
- **Confidence & Career Clarity:** Motivate first-generation learners and guides career decisions



UNEMPLOYED

- **Efficient Selection :** Identifies **high-potential interns** quickly & easily.
- **Reduced Workload :** Automates matching, scheduling, and reporting
- **Data-Driven Decisions:** Optimizes programs and recruitment strategy.

CORPORATE
WORKER

- **Skilled Interns :** Receives motivated, ready-to-contribute candidates.
- **Focused Mentorship :** Prioritizes meaningful training over filtering unsuitable interns.
- **Efficiency & Growth :** Saves time and **enhances mentor leadership skills.**

BENEFITS for RURAL YOUTH



1. Ministry of Corporate Affairs. *Prime Minister's Internship Scheme: Empowering Youth, Enabling Careers*. 21 Mar. 2025, static.pib.gov.in/WriteReadData/specificdocs/documents/2025/may/doc2025522558101.pdf.
2. Ministry of Corporate Affairs. *Partner Companies*. PMInternship, Government of India, pminternship.mca.gov.in/assets/docs/Partner_Companies.pdf
3. Press Information Bureau (PIB) – Official PM Internship Scheme Announcement (2024) <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2113760>
4. NITI Aayog – Official Internship Guidelines PDF http://workforindia.niti.gov.in/intern/PDF/NITI_Internship_Guidelines.pdf
5. My Scheme Government Portal – PM Internship Scheme Overview <https://www.myscheme.gov.in/schemes/pmis>