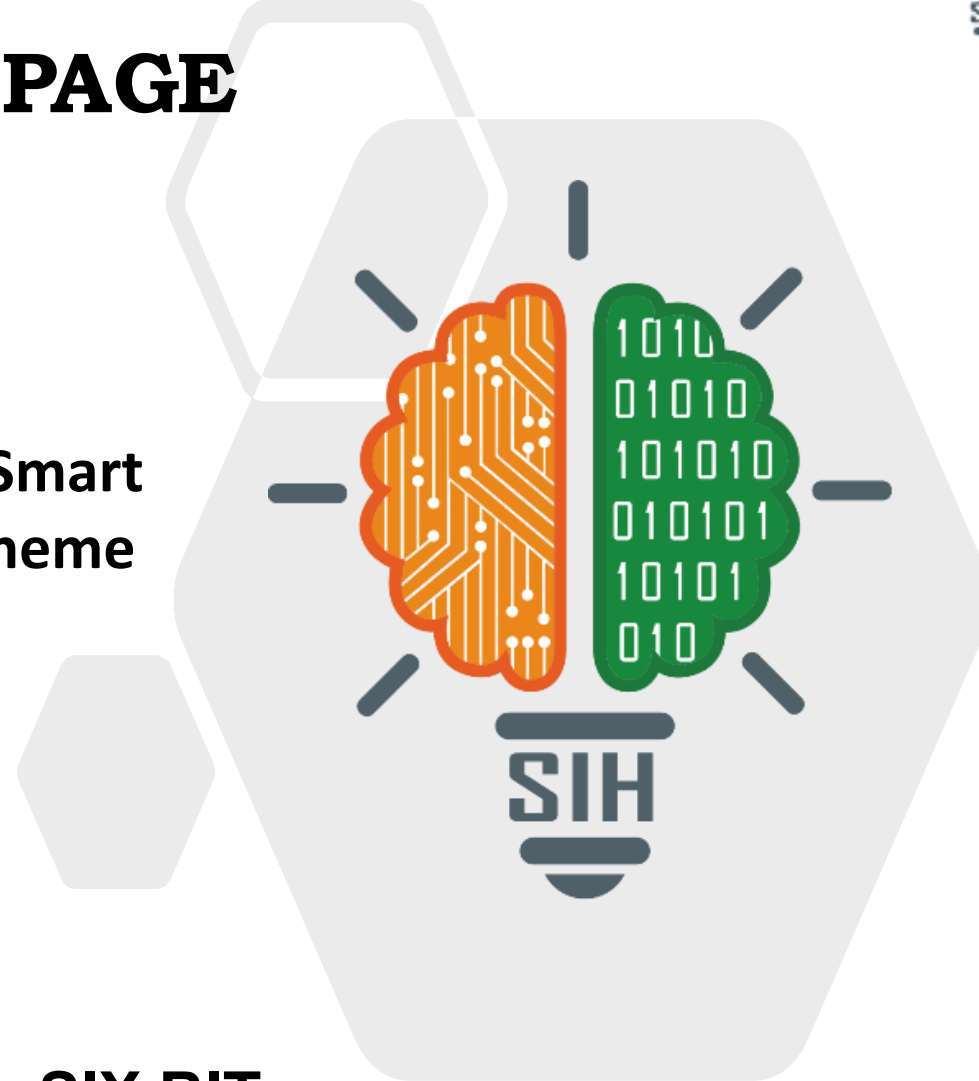# SMART INDIA HACKATHON 2025

TITLE PAGE

- **Problem Statement ID – 25033**

- **Problem Statement Title-** AI-Based Smart Allocation Engine for PM Internship Scheme
- **Theme- Smart Automation**

- **PS Category- Software**

- **Team ID- SLRTCE25001**

- **Team Name (Registered on portal)- SIX BIT**

SahayakAI

Our solution is an AI-based platform designed to create a "Smart Allocation Engine" for the PM Internship Scheme.

It will streamline the process of matching interns with projects and ministries by using a data-driven approach.

User Profile Builder
- ❏ The platform will use a **10-question survey** to create a detailed user profile, capturing skills, interests, education, and preferences.
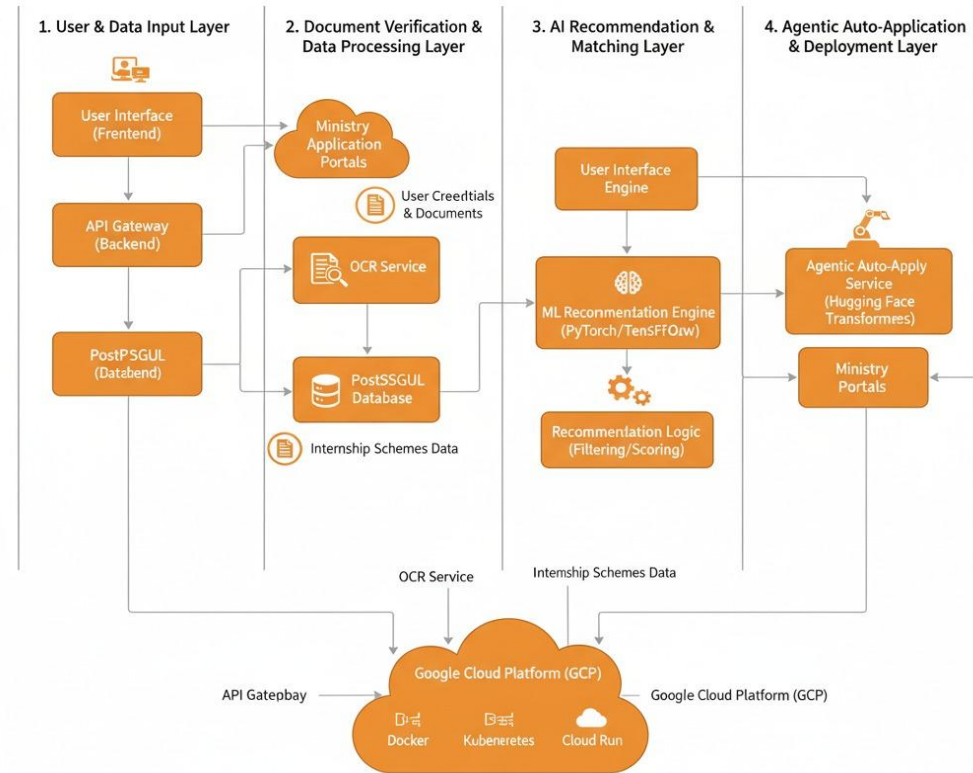
Personalized Job Matching
- ❏ An AI engine analyzes user data to intelligently match candidates with the most suitable internship opportunities.

Agentic Auto-Apply
- ❏ This system features an **AI agent** that can automatically generate and customize resumes and cover letters before applying to recommended positions on the user's behalf.

Our core innovation is an **AI-driven, agentic system** that automates and personalizes the internship application process. Rather than a simple database search, it learns a user's unique profile to provide intelligent recommendations and can even automatically generate and submit application materials.

SIX BIT

TECHNICAL APPROACH

SMART INDIA
HACKATHON
2025
SIH

AI-Based Smart Allocation Engine for PM Internship Scheme (SIH25033)

Comprehensive Tech Stack Overview

Backend & AI/ML Frameworks

Using Python, PyTorch/TensorFlow, and SpaCy, this layer powers the smart allocation engine and develops the AI agent for auto-application.

Frontend

A dynamic user interface built with React.js for profile creation and viewing personalized internship recommendations.

Database

PostgreSQL, MySQL, MongoDB stores all user and scheme data, forming the system's foundation.

Cloud Infrastructure

AWS provides a scalable and reliable environment to host the entire application.

FEASIBILITY AND VIABILITY

Feasibility

❑ The project is technically feasible, leveraging mature technologies like machine learning and modern web frameworks.

❑ The main challenges are securing high-quality training data, ensuring a robust technical infrastructure, and having a team with the necessary AI expertise.

Viability

❑ The inefficiency of manual internship allocation.

❑ It provides significant value to both interns, through personalized and fair matching, and administrators, by reducing their workload.

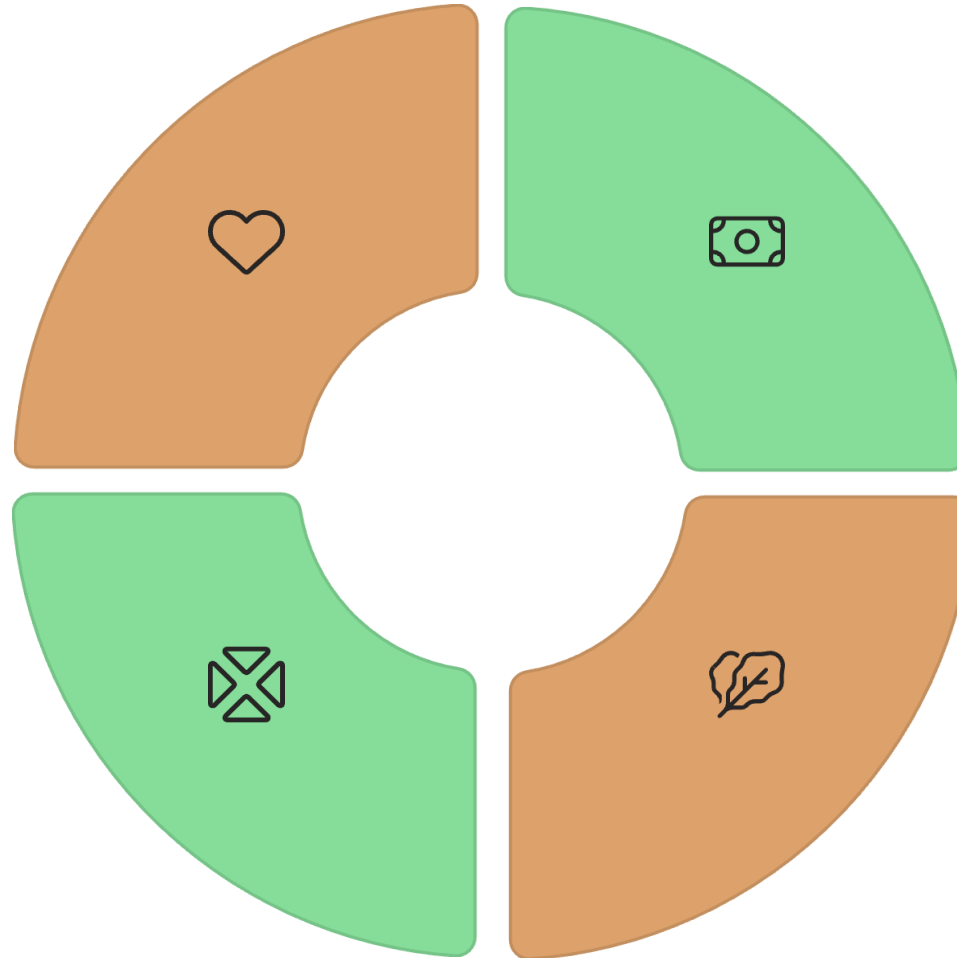❑ The solution is also scalable for future use in other sectors.

Potential Challenges

❑ **Data Privacy:** Mitigated by implementing strong encryption protocols.

❑ **Algorithm Bias:** Addressed by using fairness metrics and continuous monitoring.

❑ **Integration:** Can be managed by a phased, API-based approach.

IMPACT AND BENEFITS

Increased Efficiency

The AI engine automates the manual screening and allocation of applications, drastically cutting down administrative time and effort.

Enhanced Fairness

Using an objective, data-driven approach, the platform minimizes human bias in the selection process, ensuring equitable opportunities for all candidates.

Better Alignment

The personalized matching algorithm connects interns to projects that genuinely fit their skills and interests, leading to more successful and meaningful outcomes.

Scalability

The cloud-based architecture allows the system to easily handle a large volume of applications, making it scalable for future use and other schemes.

RESEARCH AND REFERENCES

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