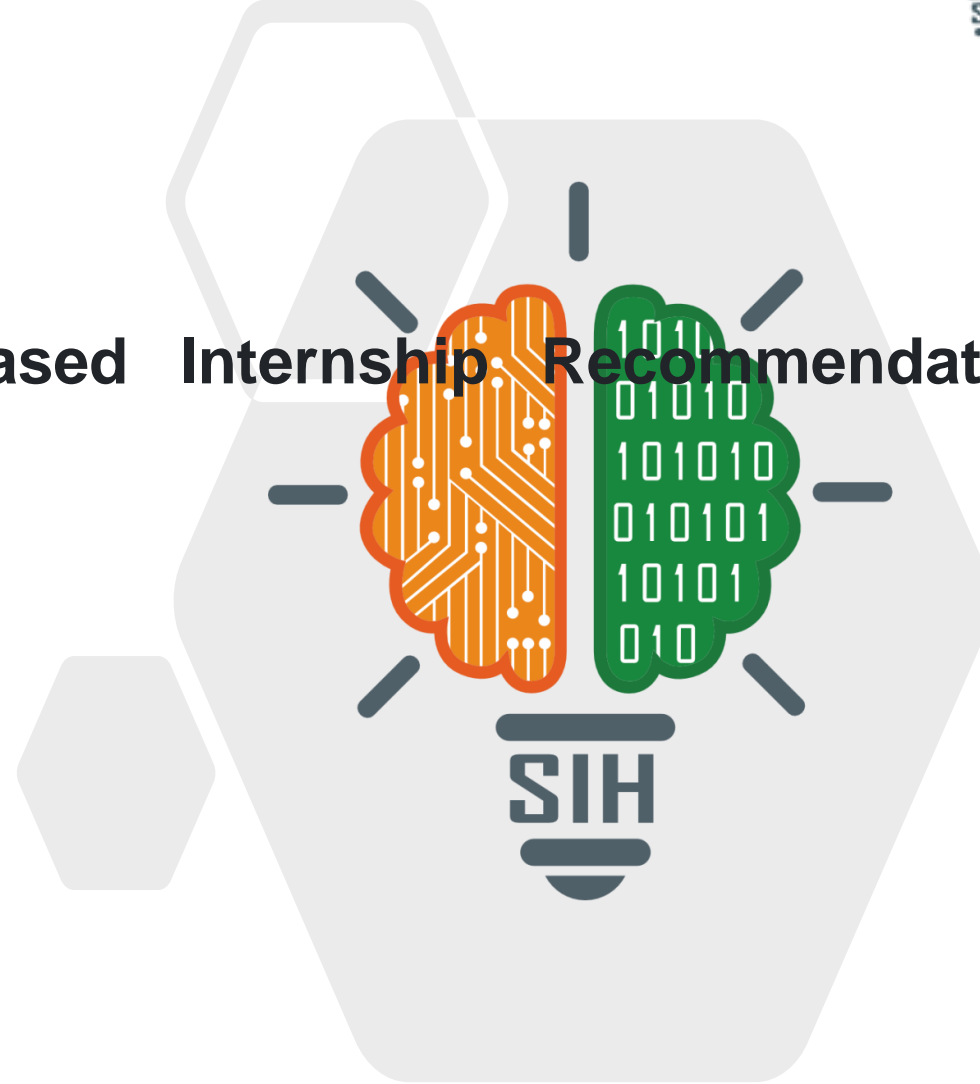


SMART INDIA HACKATHON 2025



- **Problem Statement ID – 25034**
- **Problem Statement Title- AI-Based Internship Recommendation Engine for PM Internship Scheme**
- **Theme- Smart Education**
- **PS Category- Software**
- **Team ID-**
- **Team Name: InternAI**



AI-Powered Personalized Internship Recommendation Platform



Problem

- Students find it hard to get internships that truly fit their skills and goals.



Solution

- AI engine matches student profiles with internships and shows top recommendations.



Innovation

- Explainable, multi-language, low-bandwidth friendly recommendations with optional alerts

Data Input

Student profiles + internship info



Preprocessing

Clean data, extract skills & embeddings



AI Engine

Match, rank & explain recommendations



Dashboard

View, filter, shortlist, alerts



Technologies Used

-  Python (pandas, scikit-learn)
-  NLP: spaCy / HuggingFace
-  Flask/Django REST APIs
-  PostgreSQL/MySQL
-  React / Streamlit Dashboard
-  Twilio/SendGrid API (alerts)

FEASIBILITY AND VIABILITY

Feasibility (✅)

- Uses existing student & internship data; open-source NLP + ML libraries
- Lightweight code runs on normal laptop/cloud

Potential Challenges (⚠️)

- Access to real internship data from portal
- Data privacy & security
- Multi-language support at scale

Strategies (💡)

- Start with dummy/synthetic data for demo
- Role-based access, encryption for privacy
- Gradual rollout of regional languages

Future Scope (🚀)

- Direct integration with PM Internship portal
- Notifications & analytics for institutions

IMPACT AND BENEFITS

Students

- 3–5 best-matched internships
- Higher success rate & confidence

Government / Portal

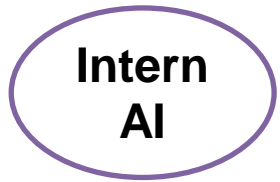
- Reduced irrelevant applications
- Efficient allocation of resources

Employers

- Shortlisting of right candidates faster
- Improved internship quality

Overall Impact

- Increased employability across India
- More inclusive opportunities for rural/tribal youth



RESEARCH AND REFERENCES

<https://internship.aicte-india.org/>



<https://www.linkedin.com/help/linkedin/answer/a507663>



<https://internshala.com/>