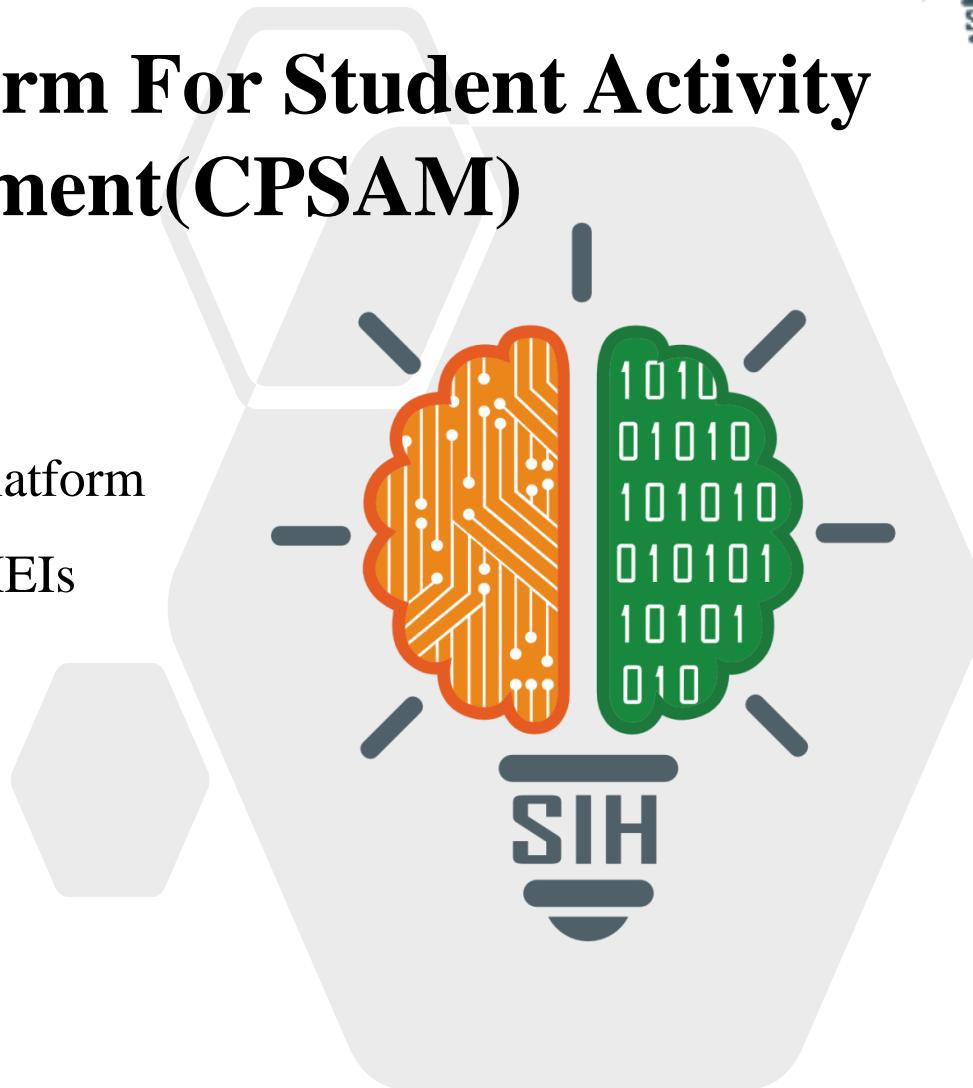


SMART INDIA HACKATHON 2025



Centralized Platform For Student Activity Management(CPSAM)

- **Problem Statement ID:** SIH25093
- **Problem Statement:** Centralized Digital Platform for Comprehensive student activity record in HEIs
- **Theme:** Smart Education
- **PS Category:** Software
- **Team ID:** 53143
- **Team Name:** HackHounds

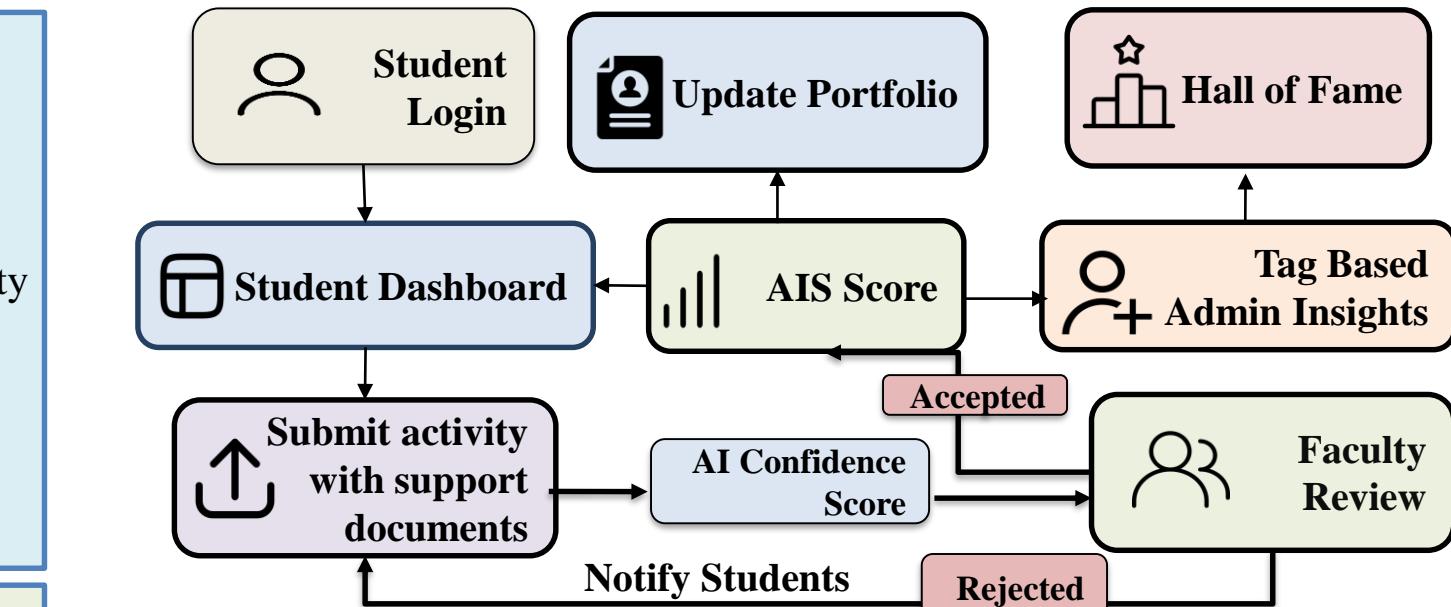


Proposed Solution

- **Student/Faculty Login** by institution Email/Reg No
- **Dashboard** with attendance percentage, activity log, submission forms, assigned goals
- Submitted activities **pending approval** from dept authority
- Approved activities, generate **AIS**, update's portfolio
- Approval aided by **AI confidence score** of support documents analysis
- Role-based admin dashboard for **data-insights view**
- **Automated Portfolio** generation as PDFs & Website

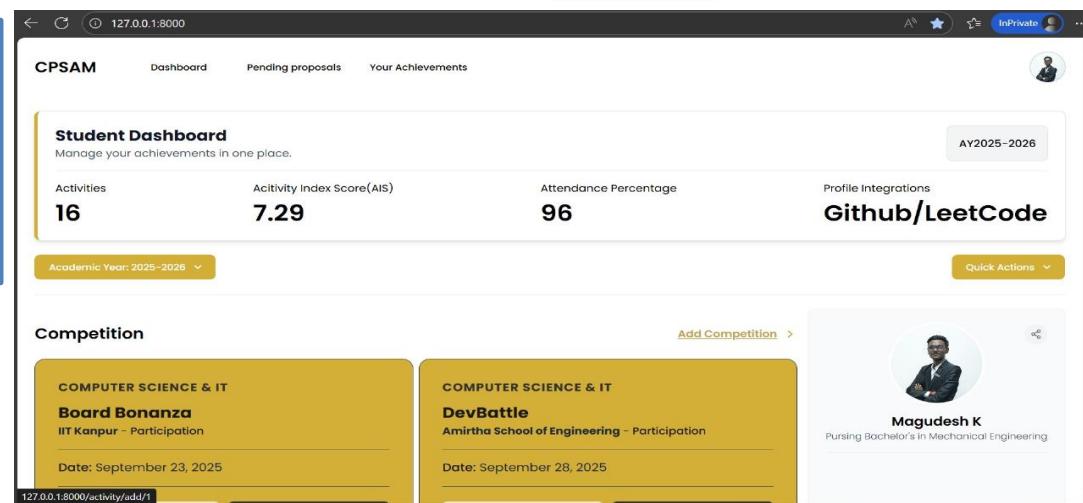
Unique Value Proposition

- **Activity Index Score** based on dynamic predefined charter
- **AI-Aided Confidence Score** for ease in activity attestation
- **Integration** with Github, LinkedIn, LeetCode for activity proof
- **Structured Portfolio** generation based on **AIS** activity log
- **Goal Assignment** and Tracking
- **Leaderboard** and periodic **Hall of Fame**
- **Activity Recommendation** for students

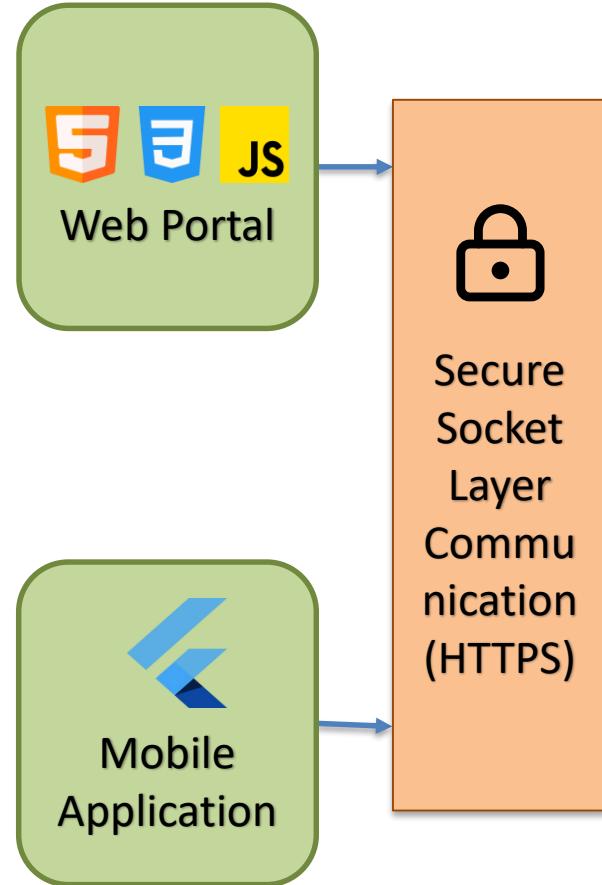


55% Project Implemented in Institution

Student Dashboard



TECHNICAL APPROACH



Hosting

- Can be carried out in institution or government owned AWS/GCP.
- Each module hosted in a VPC in separate instances.

AI Modules

- XGBoost for AI Confidence Score Calculation.
- Google Flan-T5-Large Model for recommendation & summarization.

FEASIBILITY AND VIABILITY

Challenges

Student submitted achievements may lack credibility

Solutions

Division authority attestation for acceptance

Unorganized submissions and Fragmented activity records

Structured forms & Centralized portal

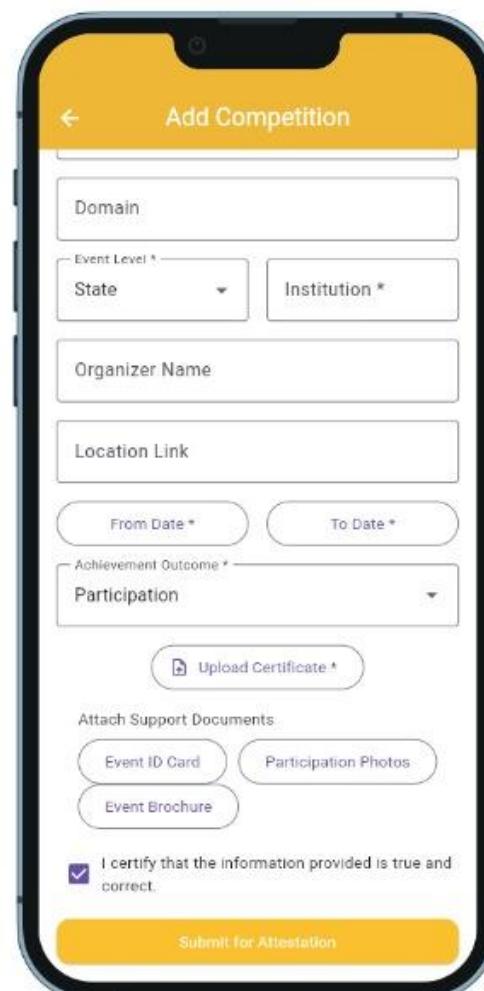
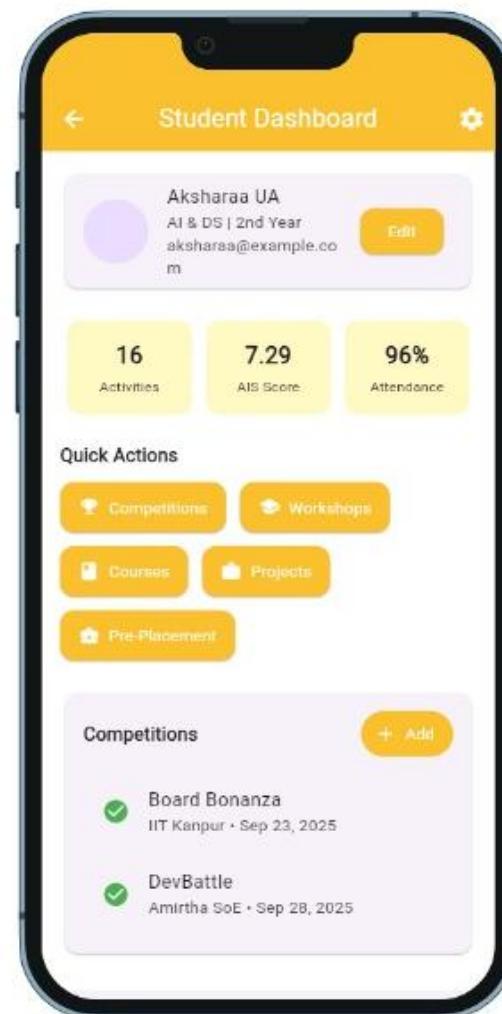
Manual attestation is slow for large student numbers

Attestation supported with confidence score by AI

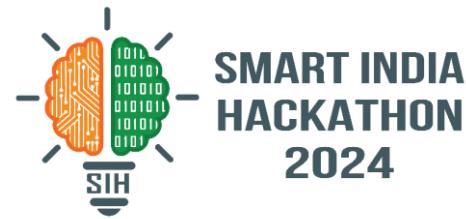
Data security vulnerabilities in large scale data

AES-256 data encryption and secure process flow

Mobile Application



IMPACT AND BENEFITS



Centralized Data Repository

Centralizing data related to student activity in one central data hub.

Community Growth

Students/faculty engage in community share insights and resources.

Talent Identification

Identifying students' skills and encouraging like-domain network growth.

Institutional Value

Better track and project student achievements, helps improve institution visibility.

Ease of access

Student data with various metrics from one single portal.

Efficiency and Productivity

Improve admin decisions in implementing new schemes & programs.

Convenience

Downloadable data sheets for accreditation or internal review.

Automated Portfolio

Institution attested professional portfolio in means of web links and PDFs for placements

IMPLEMENTATION OF PROTOTYPE

- **40% Foundational Implementation** involving student identity management live for 4000 students in our institution
- **Phase 2 Activity Submission & AIS** roll out planned on October 2nd week
- Future enhancement include **portfolio generation**, personalized activity recommendation.

Activity Submission Page

The screenshot shows a web-based form titled "Add Course Completion". It includes fields for "Course Title*", "Domain*", "Institution", "Course provider*", "From date*", "To date*", "Verification url", and "Certificate*". There is also a "Choose File" button for uploading a certificate. At the bottom, there is a checkbox for a declaration and a yellow "Submit for Attestation" button.



YOUTUBE URL
https://youtu.be/EeSpYc_Sseg?si=SGw6Ndz6mSrzkCFi

PROTOTYPE URL
<https://cpsam.me/>

RESEARCH AND REFERENCES

- Implemented foundational framework consisting identity management & event management features; future roll out scheduled on 10.10.25 includes achievement submission updates.- <https://src.drmcet.ac.in/>
- <https://www.ijraset.com/research-paper/studentsphere-indicating-a-centralized-space-for-student-records>
- <https://journals.librarypublishing.arizona.edu/itlt/article/id/5809/>
- [https://en.wikipedia.org/wiki/Mahara_\(software\)](https://en.wikipedia.org/wiki/Mahara_(software))
- <https://en.wikipedia.org/wiki/Studywiz>