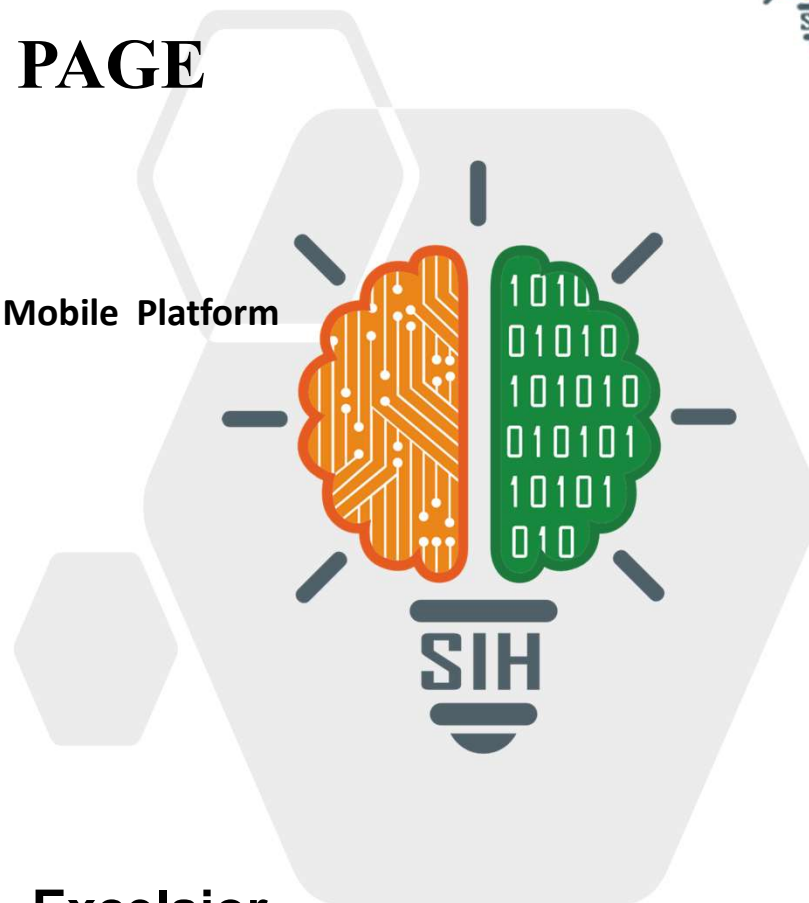


# SMART INDIA HACKATHON 2025



## TITLE PAGE

- **Problem Statement ID – SIH25073**
- **Problem Statement Title-** AI-Powered Mobile Platform  
for Democratizing Sports Talent Assessment
- **Theme-** Fitness & Sports
- **PS Category-** Software
- **Team ID-**
- **Team Name (Registered on portal) - Excelsior**



Excelsior

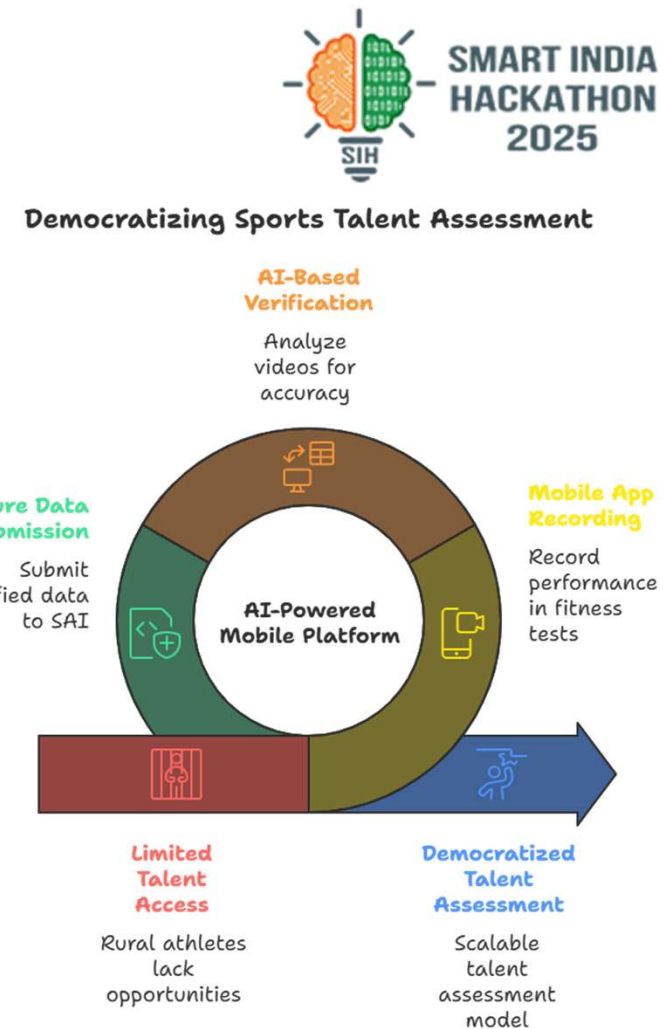
# IDEA TITLE

## ❖ Proposed Solution (Describe your Idea/Solution/Prototype)

**AI-Powered Mobile Platform:** Athletes record tests, AI verifies, secure data goes to SAI.

**Transforms Access:** Converts limited, infrastructure-dependent assessment into democratized, scalable opportunity for all

**Mobile-First AI Lab:** Smartphone-based, objective performance validation via AI.



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Mobile App: Flutter (for iOS & Android)

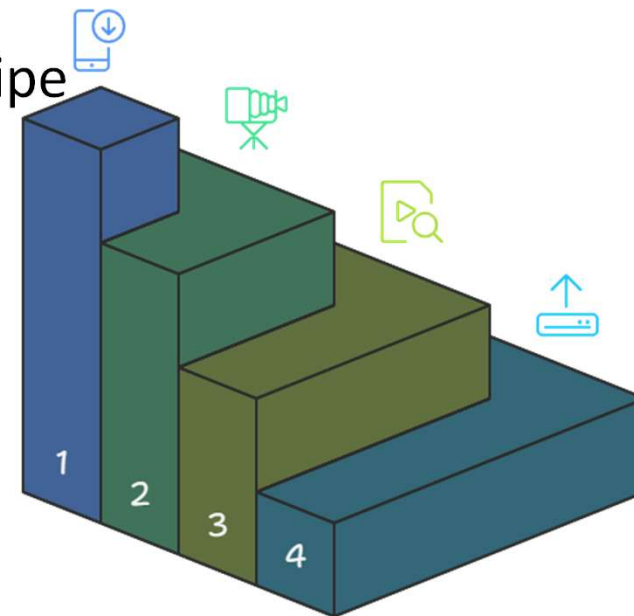
On-Device AI: TensorFlow Lite & MediaPipe

Backend: Python (Django Framework)

Database: PostgreSQL

Cloud: AWS or Google Cloud

## Steps to Implement Sports Talent Assessment App



### Download App

Athletes download the app to start the assessment process.

### Record Performance

Athletes record videos of their performance in fitness tests.

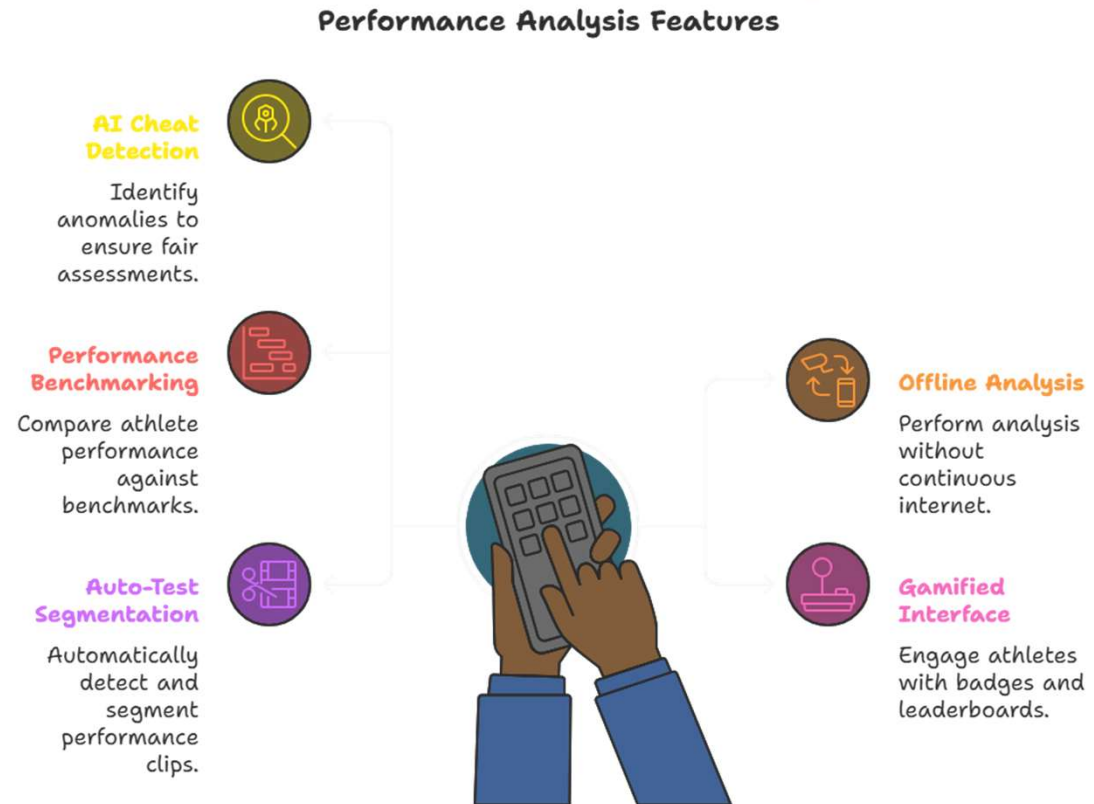
### AI Verification

AI analyzes videos for accuracy and authenticity.

### Submit Data

Verified data is securely submitted to SAI servers.

- **AI Accuracy:** Provide very clear, on-screen visual guides for set up and tests.
- **Verifier (Coach) Adoption :** Engage with local leagues and coaching associations.
- **Internet Connectivity:** Allow for offline data capture that syncs with the server when a connection is available.



# IMPACT AND BENEFITS

Unveiling the Impact of Sports Talent Assessment

- **For Athletes:** Provides fair opportunity and national visibility based on pure merit.
- **For Scouts & SAI:** Creates a wider, more efficient, and data-driven talent pipeline.
- **Social:** Fosters a transparent, merit-based sporting culture free from bias.
- **Economic:** Creates new career pathways for athletes and maximizes national investment in sports.



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# RESEARCH AND REFERENCES



- **Google AI's MediaPipe Framework-**  
<https://ai.googleblog.com/2019/08/mediapipe-on-device-real-time-hand.html>
- **TensorFlow Lite Documentation:** <https://www.tensorflow.org/lite>
- **Journal of Sports Sciences -**  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3737856/>
- **SAI's Khelo India Fitness Assessment Protocols –**  
<https://www.google.com/search?q=https://kheloindia.gov.in/web/assets/pdf/Final-Khelo-India-Fitness-Book.pdf>