

# SMART INDIA HACKATHON 2025

**Problem Statement ID - 25073**

**Problem Statement Title:**  
**“AI Powered Mobile Platform for Democratizing Sports Talent Assessment”**

**Theme - Fitness & Sports**

**PS Category - Software**

**Team ID - 64585**

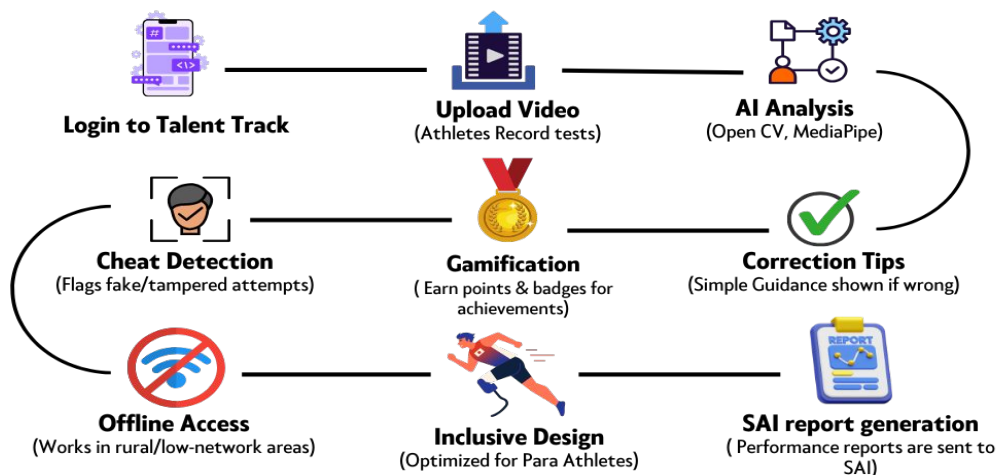
**Team Name - Bluegen\_606**

SUSTAINABLE  
DEVELOPMENT  
GOALS

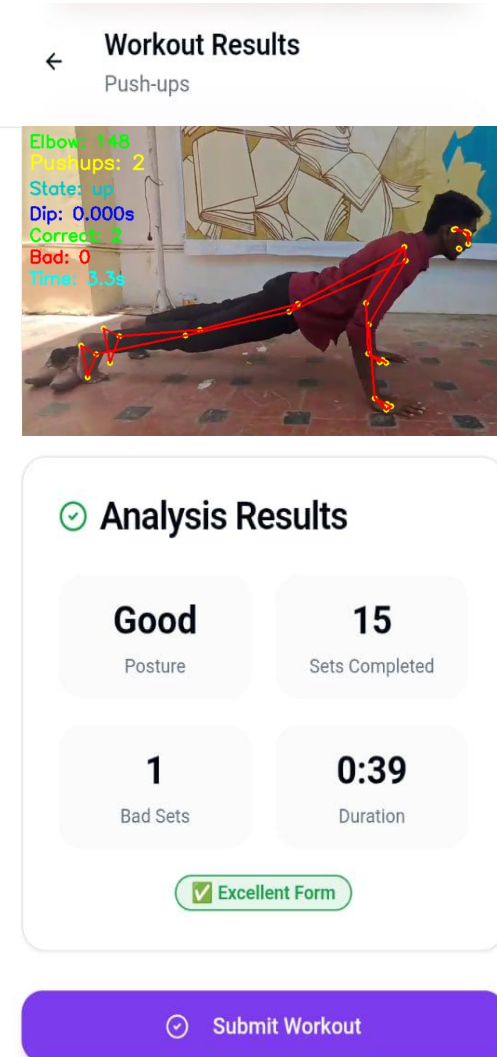
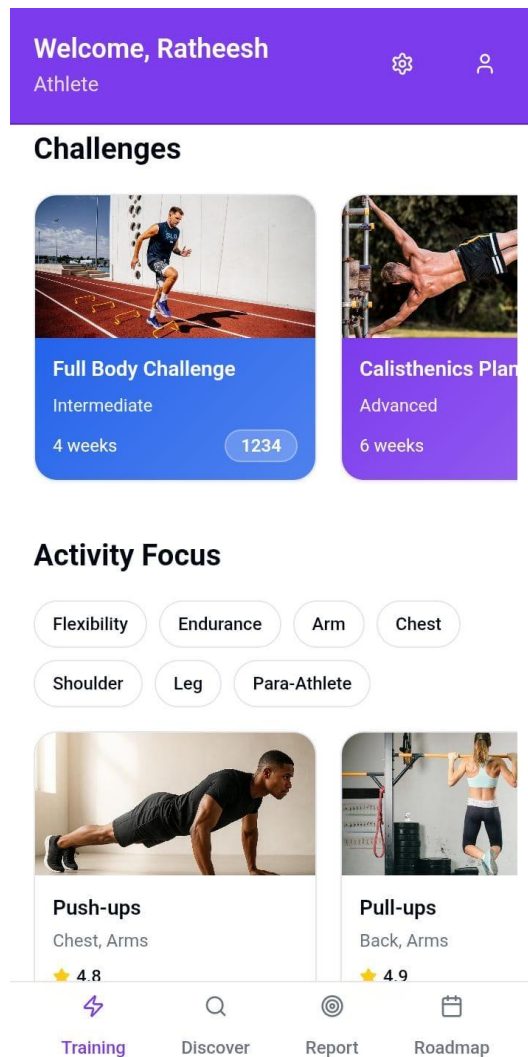


## IDEA/SOLUTION

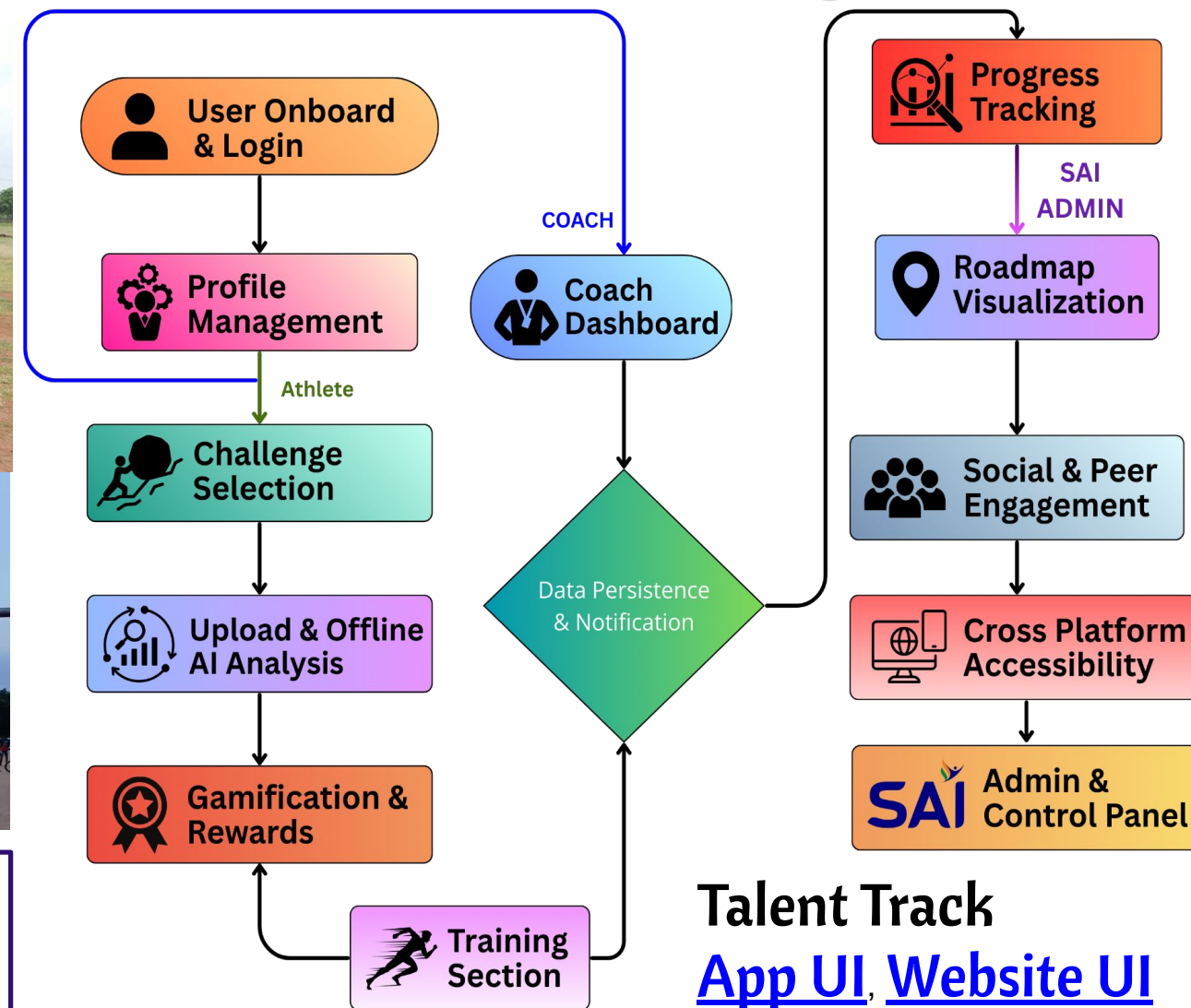
**Talent Track** is a mobile app that allows athletes to showcase their talent anytime, anywhere using AI. Built with Flutter, it runs seamlessly on all devices. The app uses OpenCV and MediaPipe for video-based motion and posture analysis, giving instant feedback.



**Talent Track** doesn't just record results, it teaches athletes how to improve with **real-time guidance** and **gamified motivation**. By combining **offline AI analysis**, curated for **Para-athletes** too, with **coach and SAI integration**, we turn simple video tests into a complete growth journey.







**Talent Track**  
[App UI](#), [Website UI](#)



## Technical Feasibility

We use OpenCV + MediaPipe for AI analysis, making video processing lightweight, accurate, and suitable even for entry-level smartphones.



## Market Feasibility

Our app taps into the huge pool of rural and semi-urban athletes, backed by programs like Khelo India and SAI, ensuring real adoption.



## Financial Feasibility

Built with open-source AI frameworks and on-device processing, reducing server costs, while funding support comes from government and CSR.



## Operational Feasibility

A gamified, simple mobile UI allows easy use by athletes with basic digital literacy, while reports auto-sync to coaches and SAI for smooth operations.



### Workout Results

Pull-ups



### Analysis Results

Good

Posture

22

Sets Completed

2

Bad Sets

0:49

Duration

Excellent Form

### Workout Results

Shuttle Run



### Analysis Results

Bad

Posture

3

Sets Completed

1

Bad Sets

0:42

Duration

Form Needs Work

### Workout Results

Sit-ups



### Analysis Results

Good

Posture

13

Sets Completed

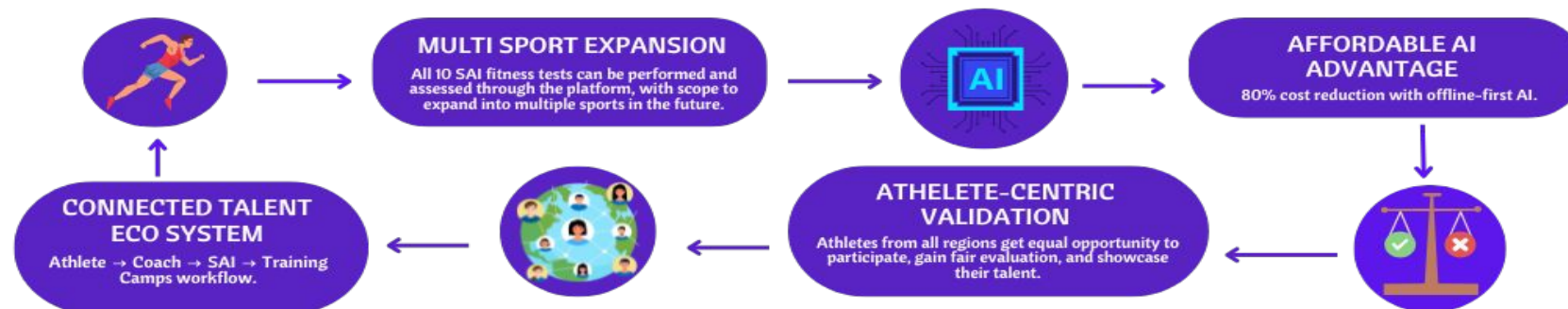
1

Bad Sets

0:49

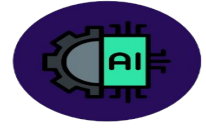
Duration

Excellent Form





Equal Sports  
Opportunities



Low-Cost  
Assessments



Transparent  
Performance  
Tracking

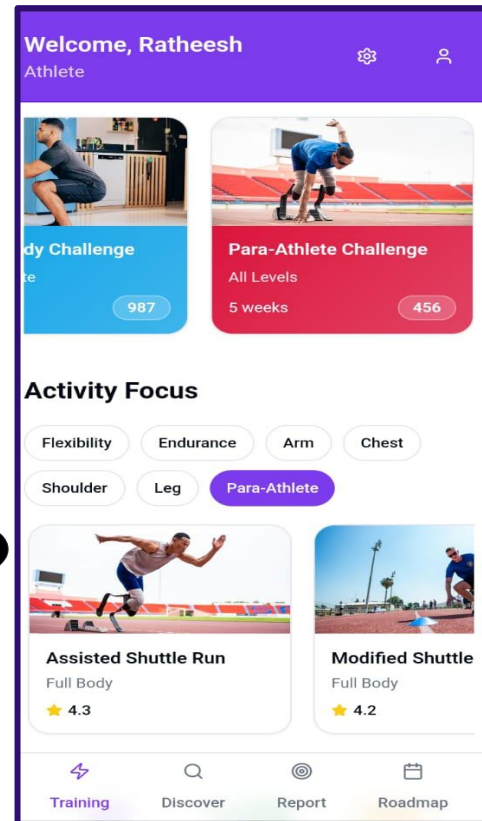
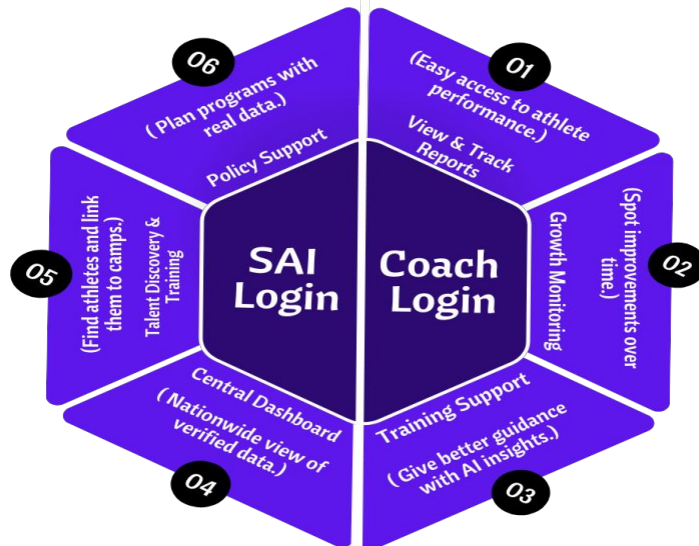


Transparent  
Performance  
Tracking

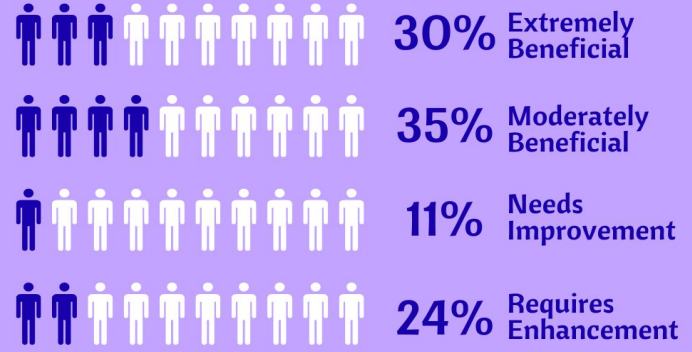
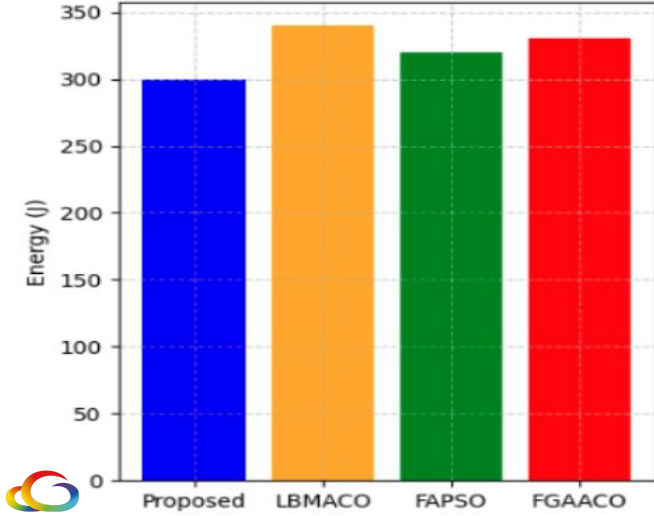
## Data-driven training: SportsSkill wants all athletes to access performance-tracking

Founded in 2021, Pune-based SportsSkill caters to athletes, parents, coaches, and academies, with 1,000+ downloads and active users across cities including Hyderabad, Indore, and Mumbai. [Article Link](#)

Unlike existing systems like SportsSkill that rely on wearables, our platform works with just a **Basic Smartphone** and is also designed to support **Para-athletes**.



Energy Consumption



[Survey Link](#)



Onboarding and  
data capture



AI performance  
analysis



Gamified Progress  
Tracking



Integrated Talent  
Pathway



1. [Fusion of Video and Inertial Sensing for Deep Learning](#)
2. [Vision and Inertial Sensing Fusion for Human Action Recognition](#)
3. [Transformer-based Sensor Fusion for Human-Centric Multi-modal and Multi-modal Action Recognition](#)



[Article Link](#)

Our inspiration came from seeing how many young athletes in rural areas struggle to showcase their talent due to lack of access to proper facilities or costly wearables. We wanted to build a simple, smartphone-based solution that could bring fair opportunities to every aspiring sportsperson, no matter where they come from.

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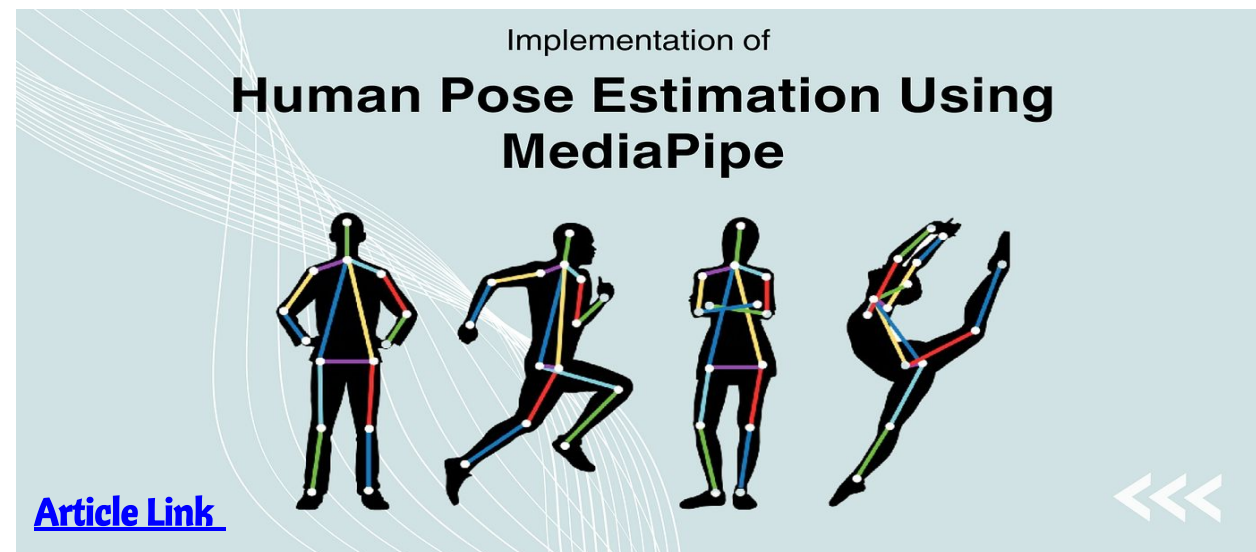
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[Video Link](#)



[Article Link](#)