## Al Soccer Game Analyzer

## **Executive Summary**

**Challenge**: Grassroots soccer clubs lack affordable, automated analytics to derive tactical insights from match video.

**Solution**: Al-powered detection, tracking, and highlight-reel generation in one dashboard—runs on free Colab.

## Key Metrics:

Player detection mAP@o.5 ≥70%

Ball detection mAP@o.5 ≥60%

Highlight reel generation ≤3 min per match

## Benefits:

Coaches: Data-driven training adjustments

Players: Enhanced recruitment exposure

Parents/Fans: Engaging video highlights

**Roadmap** (6 weeks): Dataset  $\rightarrow$  Fine-tuning  $\rightarrow$  Tracking  $\rightarrow$  Analytics  $\rightarrow$  UI  $\rightarrow$  Evaluation