Approach and Methodology:

- Detection: YOLOv8+

- Tracking: DeepSORT

- Embedding: ResNet50 (2048-dim)

- Matching: Cosine similarity on normalized embeddings

Techniques Tried:

- DeepSORT for intra-video tracking
- Cosine similarity for cross-video ID
- Normalization for better feature comparison

Challenges:

- -Viewpoint variation, occlusion
- Detection misses
- Track fragmentation

Future Work:

- -Try OSNet/TransReID
- Add jersey OCR
- -Temporal smoothing-
- -Better visualization