PRESENTATION

By Group 7

Group no: 7 Md Yeasin Arafat (2022320642), Ishfaque Islam (2022513042), Murad Mustakim (2011650042), Samor Deb Nath Konok (2014206642) Mahir Absar (2011685042)

BACKGROUND

- Project Name: Real-Time Object Tracking with Machine Learning
- Objective: Collect and annotate data to build a future ML tracking model.
- Current Status: Focused on data collection and annotation.

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DATA COLLECTION & ANNOTATION

- Videos Used: Extracted frames from 10 online videos.
- Annotation: Used Roboflow to label object locations.

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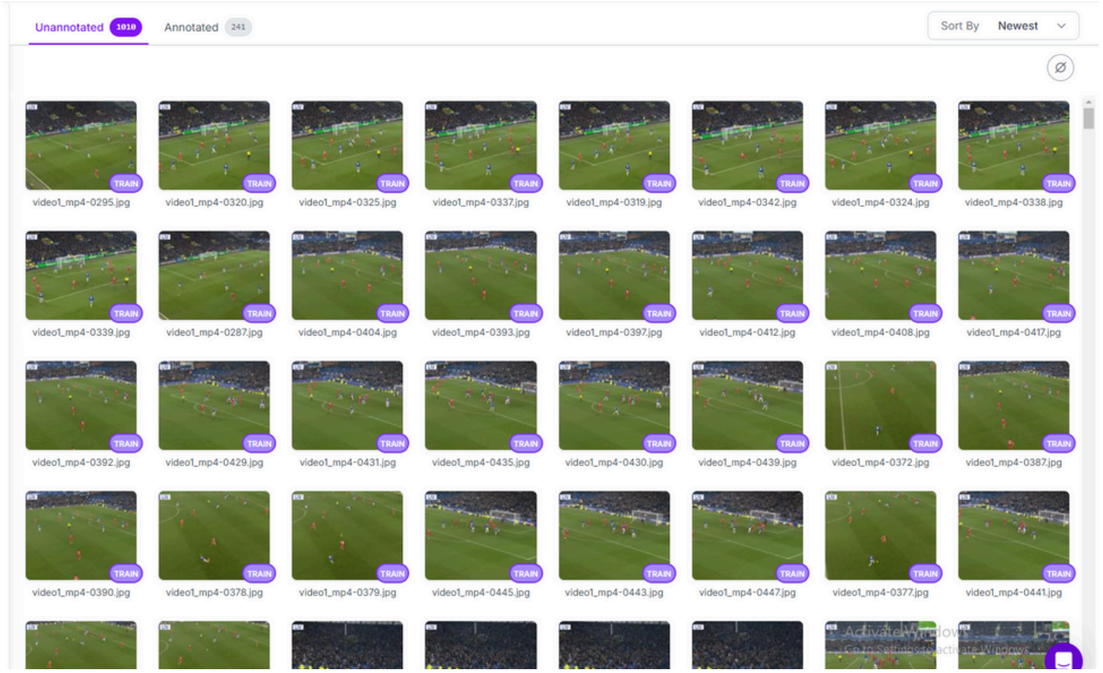
UNANNOTATED



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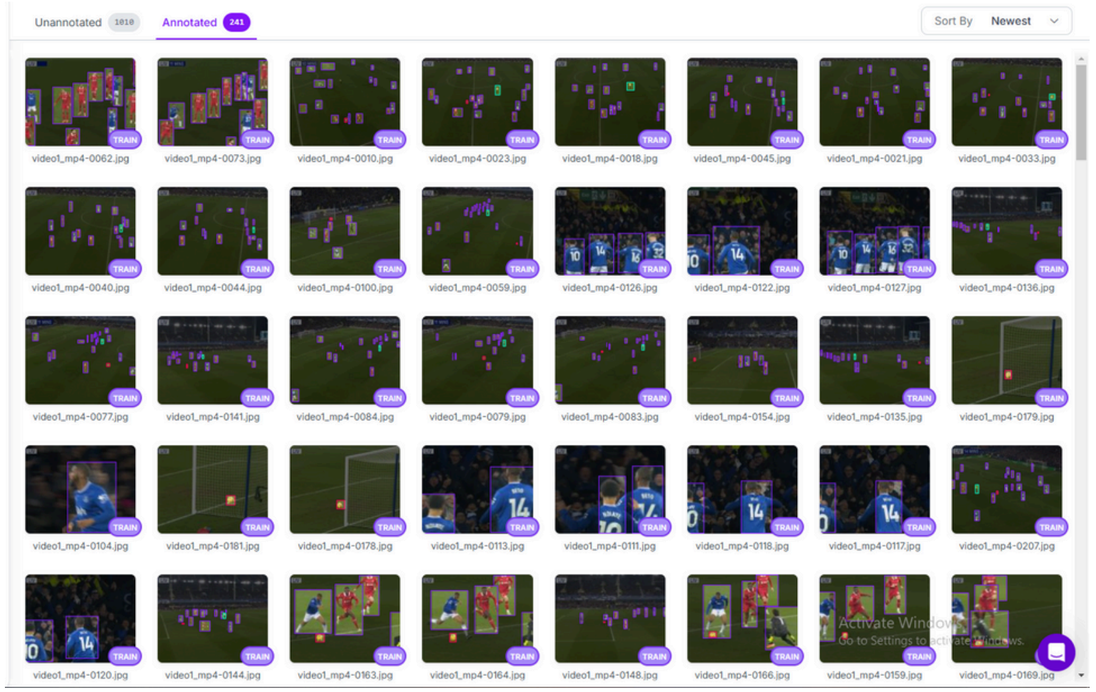

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SIGNIFICANCE

- Enhances accuracy, speed, and adaptability
- Applied in security, robotics, autonomous driving, etc.
- Automates tasks and tracks multiple objects
- Integrates with technologies like facial recognition
- Raises privacy concerns and requires secure data handling

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FUTURE SCOPE & NEXT STEPS

- Upcoming Work:
- Train an object tracking model (e.g., YOLO + DeepSORT).
- Optimize real-time tracking performance.
- Validate results with additional datasets.

- Potential Applications:
- Smart traffic management.
- Automated surveillance.
- Sports performance analysis.

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CONCLUSIONS

- Successfully collected and annotated data from 10 videos.
- Moving forward to train the ML model for real-time object tracking.
- Future applications in traffic monitoring, surveillance, and sports analytics.

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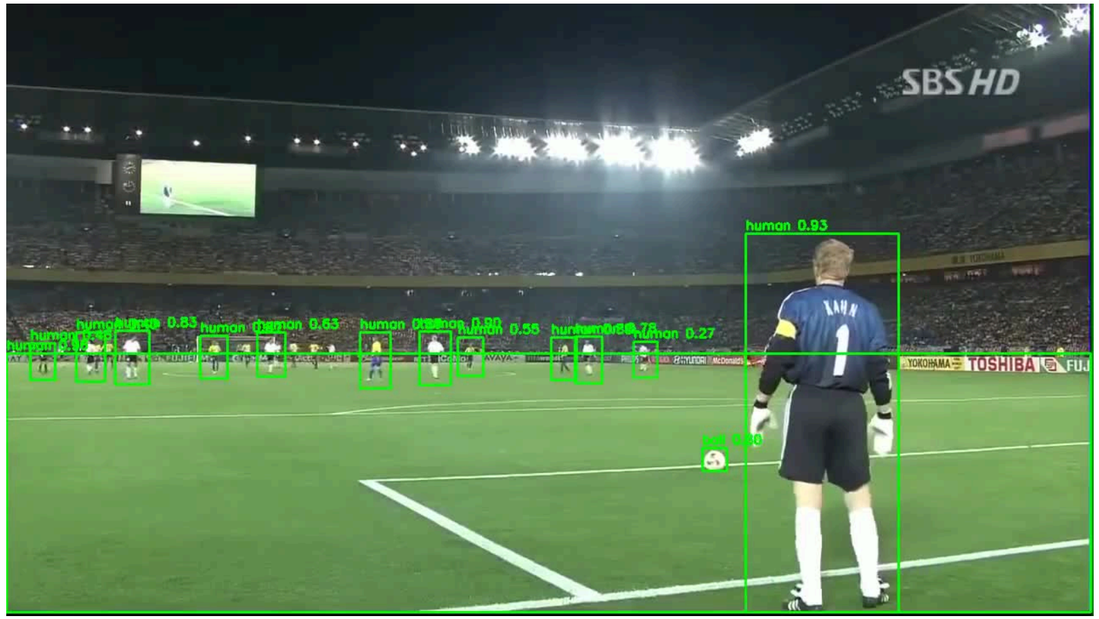
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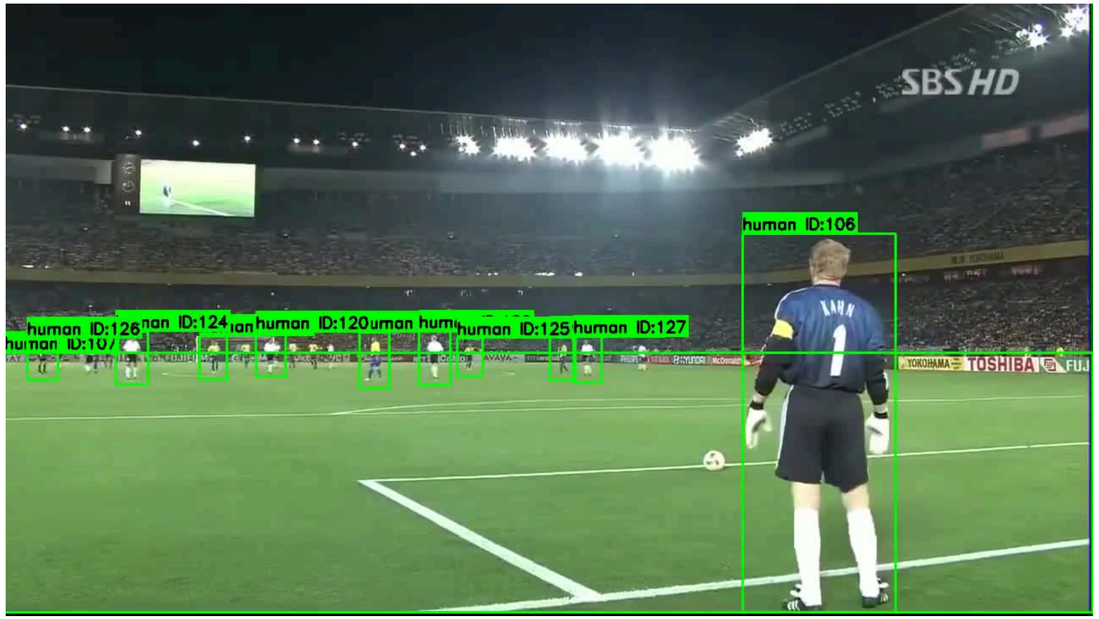
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TOSHIBA

THANK YOU