

SEE W/ ME

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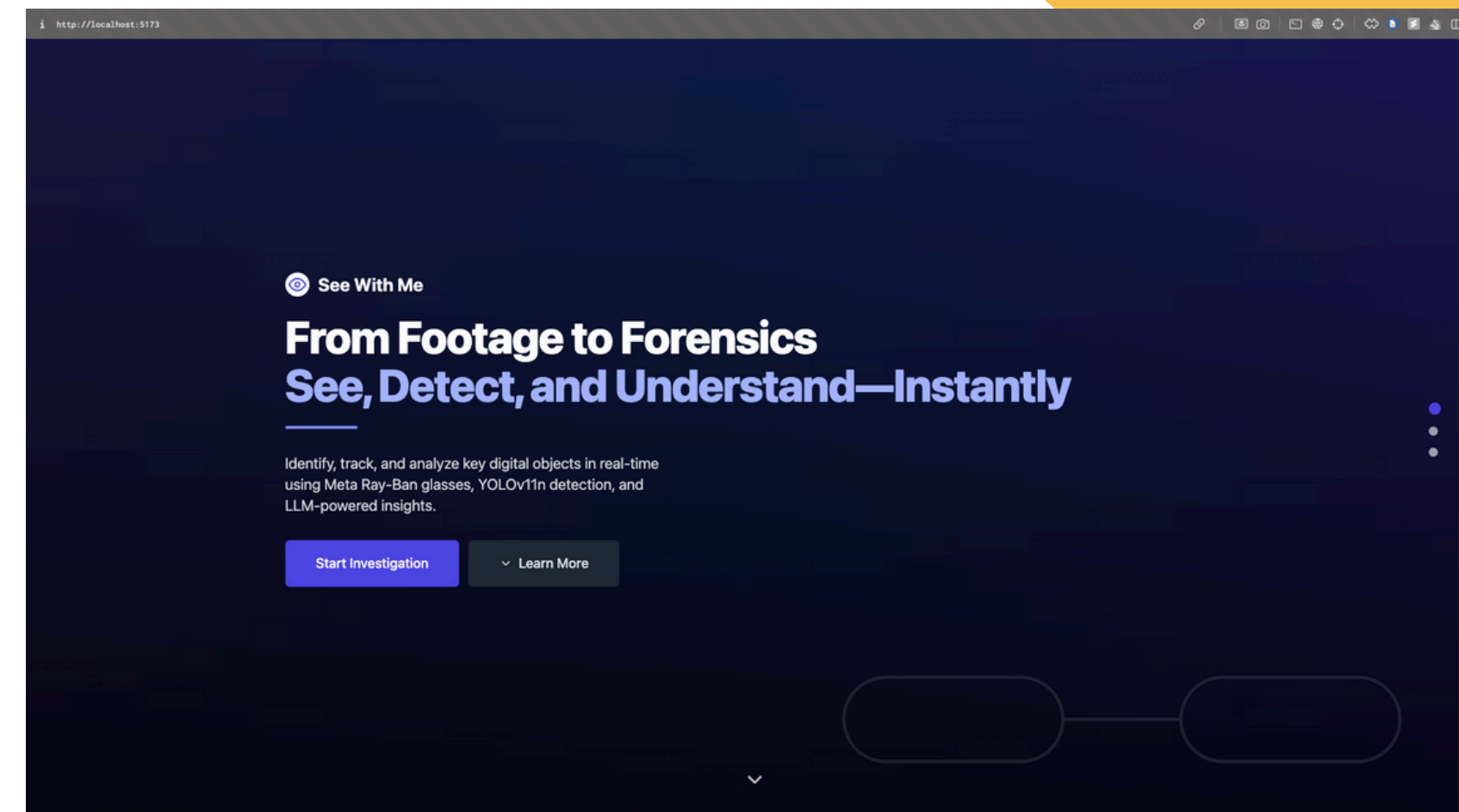
BitCamp Hackathon: April 13 - 2025

Search ...

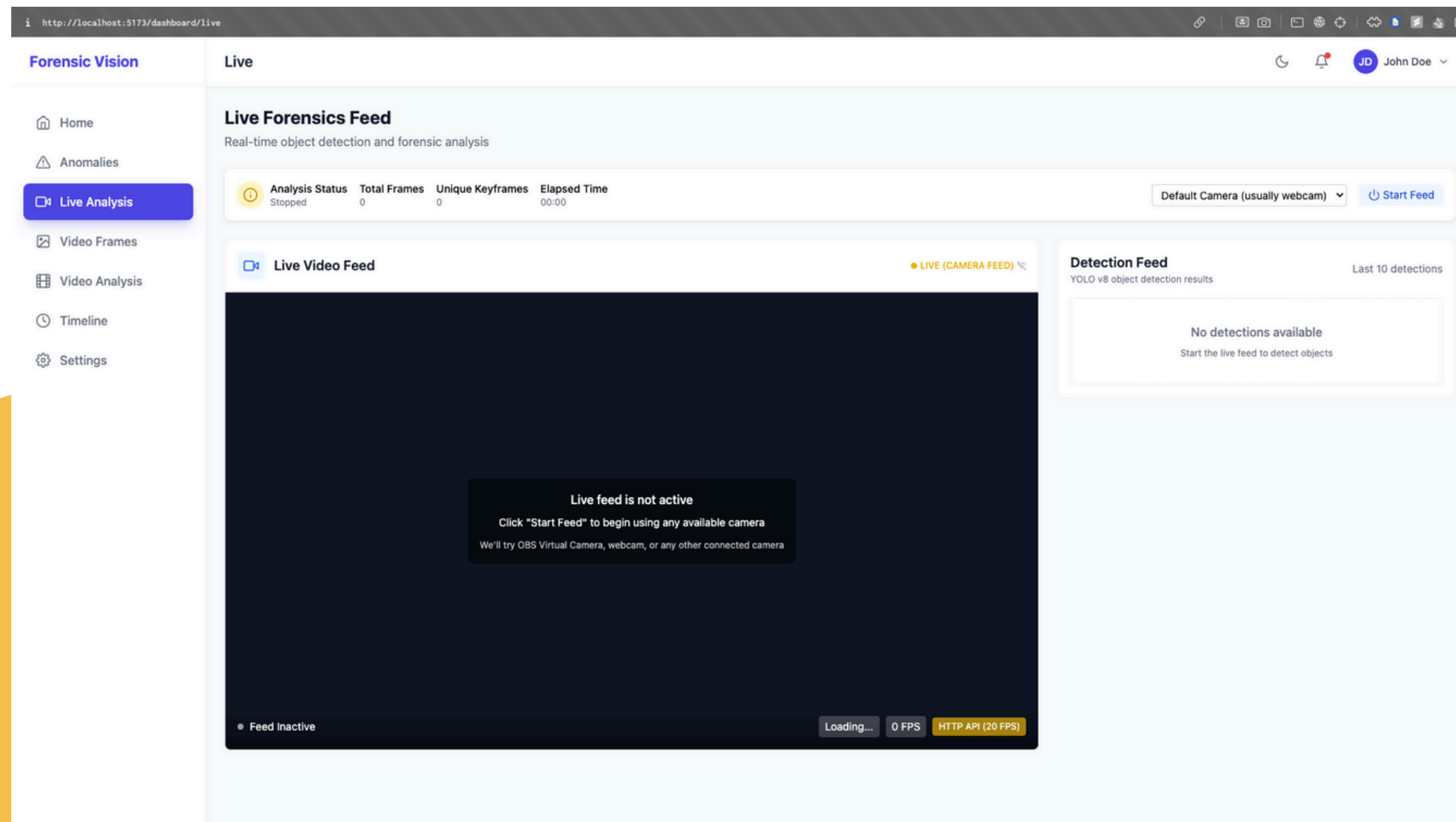


The Digital Investigator⁺'s Challenge

- “Over 80% of criminal investigations now involve the analysis of digital video footage.” — [Interpol Digital Forensics Briefing, 2023].
- Manually reviewing hours of footage is slow, error-prone and tedious
- ⁺ • What if AI could instantly spot key objects and suspicious actions, letting investigators jump straight to what matters?



Smart Triage for Visual Evidence



- Automatically identify key visual elements (USBs, drives, screens, etc.)
- Generate concise forensic summaries using agentic systems
- Aid the forensics experts by cutting down search times on videos.

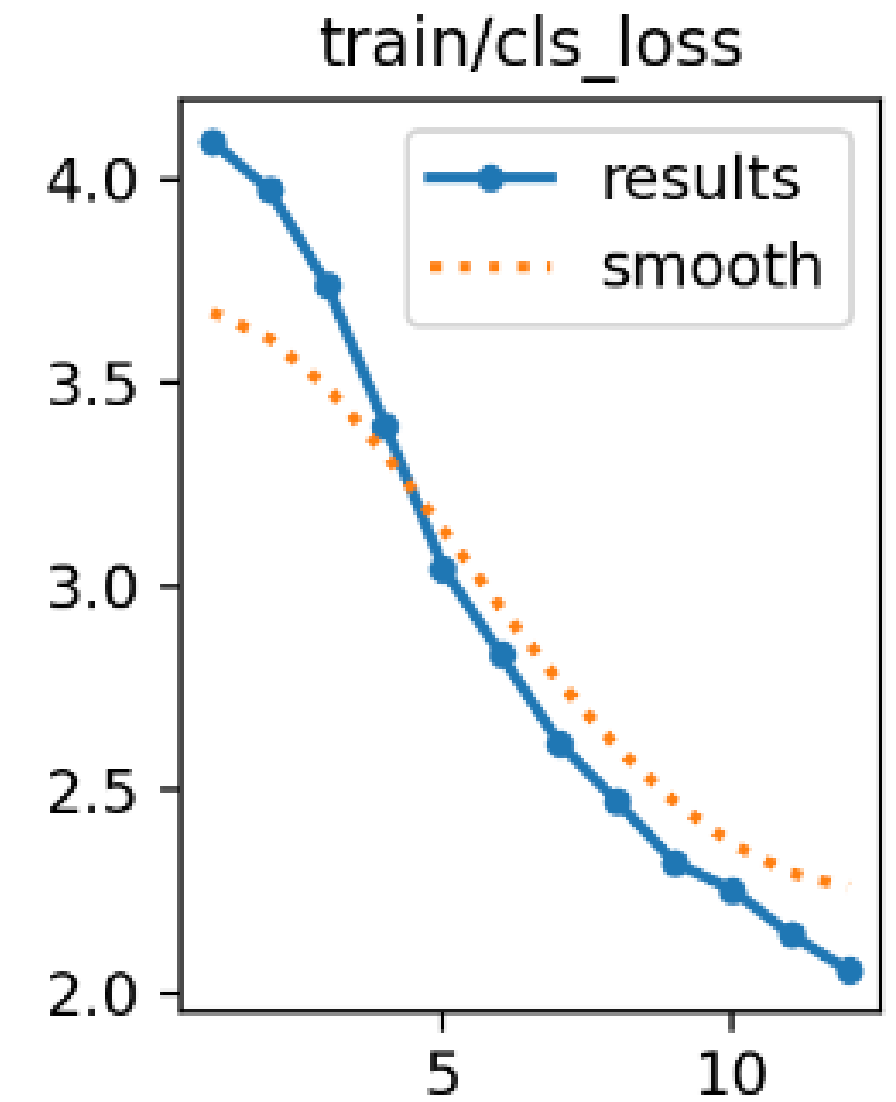
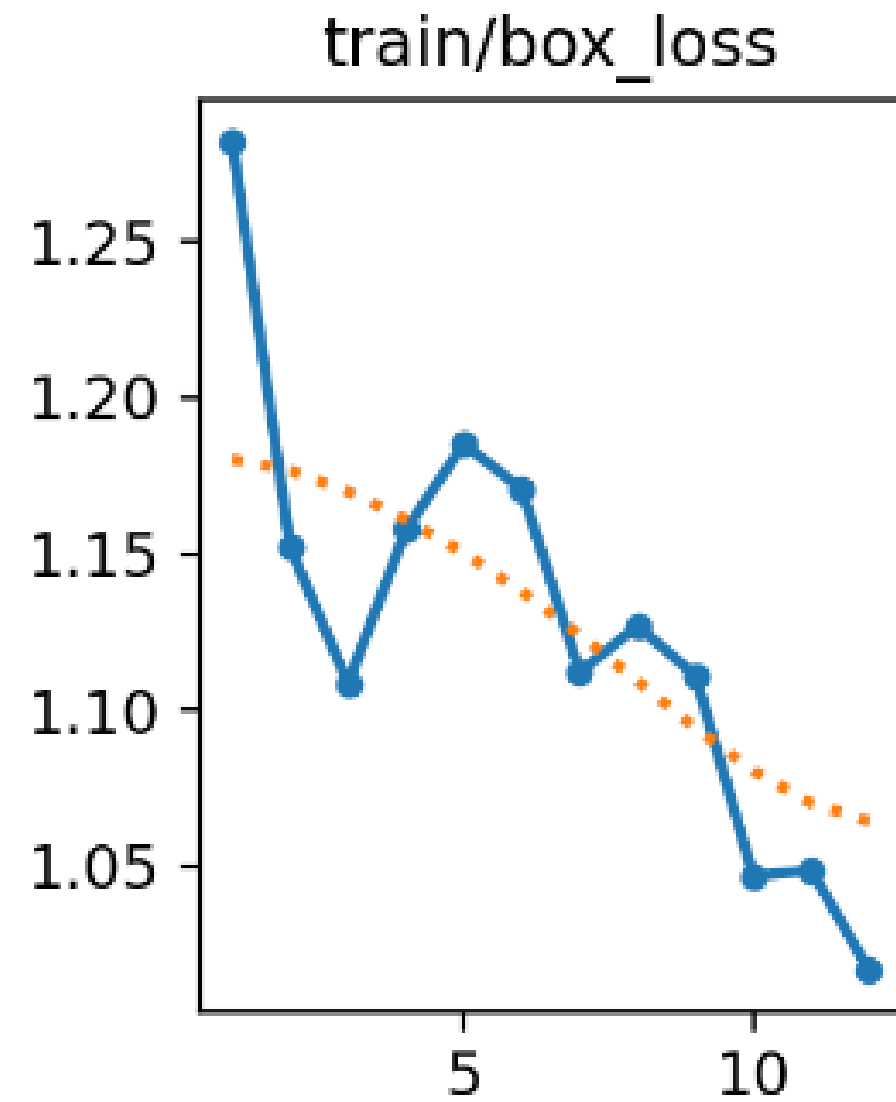
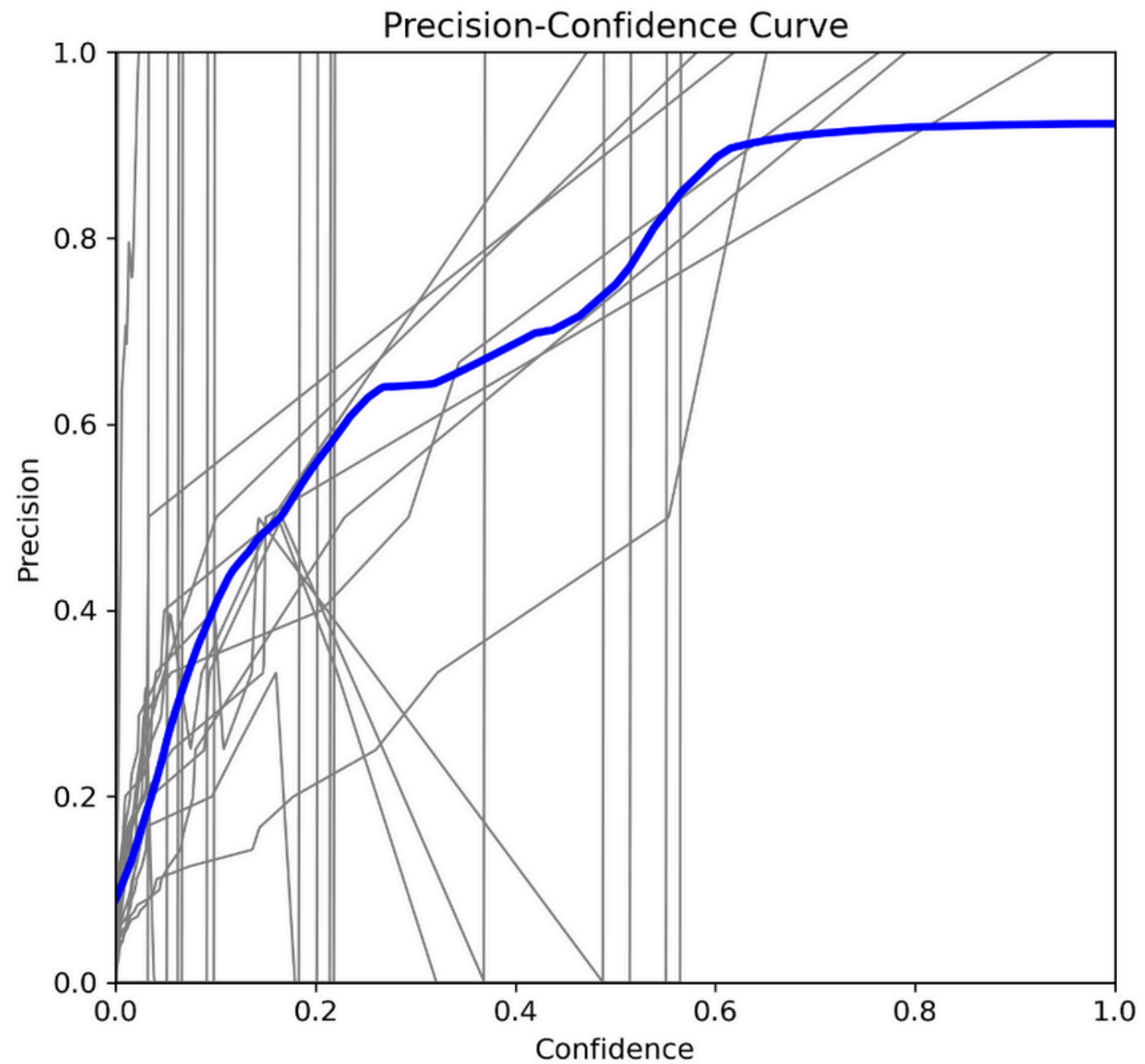
How It All Works



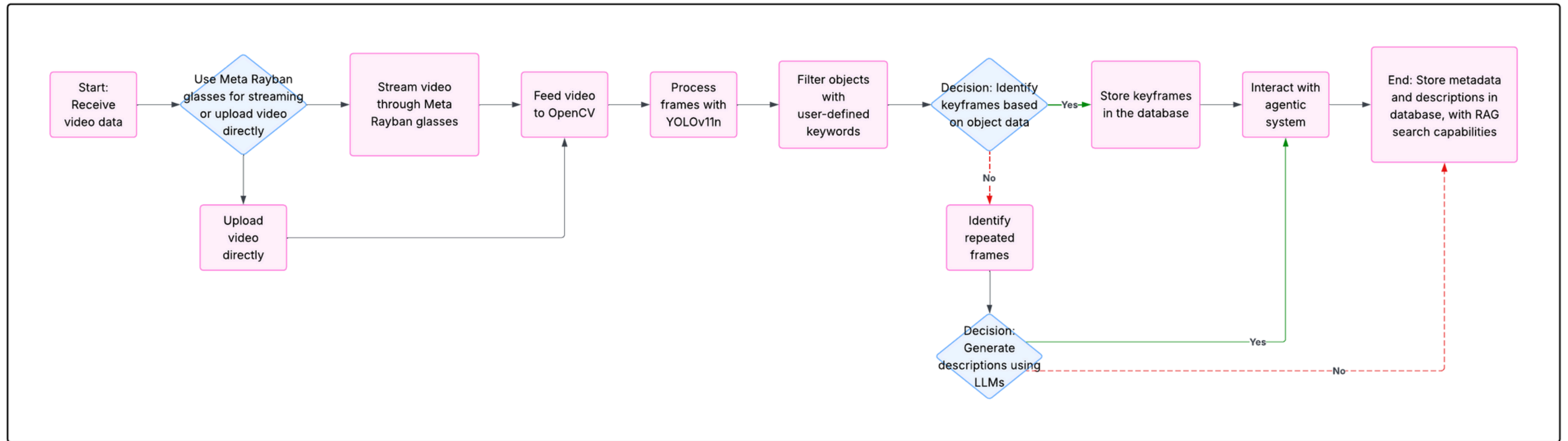
- **Live Capture** from Meta Ray-Ban smart glasses via Instagram Live
- **Frame Extraction** using OpenCV with the help of (for live videos)
- **Object Detection (YOLOv11n)** for forensic-relevant items: USBs, drives, screens, etc.
- **Agentic AI Insights** analyse descriptions and insights for detected scenes
- **Forensic Timeline** helps visualize events in a chronological timeline
- **Interactive Dashboard** displays modern React frontend with real-time updates



MODEL DIAGRAMS



FLOW CHART





WHATS THE FUTURE?

NEXT STEPS

Natural language search across all keyframes.

Steganography or anomaly flagging

Better and more efficient multi-object tracking across time
Integration with forensic tools like **Autopsy** or **FTK**

Expert Notes Integration via audio transcription (Whisper or similar)

IMPACT

Speeds up video review in time-sensitive investigations
Helps forensic teams focus on **high-value evidence**

Enhances visibility into digital artifacts beyond manual review
Enables smarter, **AI-assisted case reconstruction**

Reduces human error in video-based investigations

VISION

Seamless integration with forensic lab tools

Scalable to handle large-scale evidence sets from multiple sources

Empower experts with fast, explainable insights from visual data

Become the default toolkit for **smart forensic video triage**

THANK YOU



Search ...



- 01 GITHUB: [HTTPS://GITHUB.COM/RITESH3280/BITCAMP25](https://github.com/Ritesh3280/BitCamp25)
- 02 DEVPOST: [HTTPS://DEVPOST.COM/SOFTWARE/SEE-WITH-ME?REF_CONTENT=USER-PORTFOLIO&REF_FEATURE=IN_PROGRESS](https://devpost.com/software/see-with-me?ref_content=user-portfolio&ref_feature=in_progress)
- 03 FRONTEND: REACT + VITE, TAILWIND CSS
- 04 BACKEND: PYTHON, FLASK, PYTORCH, HUGGINGFACE, OPENCV, AGENTIC AI
- 05 VECTOR STORES: PINECONE

