

# FrameFlow — Smart Video Annotation Platform

## FrameFlow - Smart Video Annotation Platform

### About the Product

FrameFlow is a scalable, AI-powered video annotation platform that simplifies and accelerates the dataset labeling process. Designed to annotate long-form videos with ease, it supports everything from bounding box creation to intelligent metadata tagging for any object type.

\*Train Better Models with Smarter Annotations\*

### The Problem

Manual video annotation is time-consuming, repetitive, and inefficient. AI and computer vision teams spend over 60% of their time just preparing training data - especially for complex, long-duration video sources.

### Our Solution

FrameFlow provides:

- AI-assisted object detection using YOLO
- Frame-by-frame annotation with automatic inheritance
- Intuitive editing features (drag, resize, clone)
- Rich metadata tagging system for objects
- Multi-user workload allocation with monitoring

All packaged in a real-time, web-based tool ready for scale.

### Key Features

- YOLO Integration: Detects objects (vehicles, people, more) automatically
- Frame Inheritance: Carry boxes into the next frame to avoid rework
- Attribute Panel: Annotate details like license plates, gender, accessories
- User Work Assignment: Upload a full folder and assign by video length
- JSON Output: Structured annotation data, ready for training

### Built for Teams

- Assign annotation batches to multiple users
- Track annotation time, accuracy, and activity
- Admin dashboard for full operational visibility

## Technology Stack

- Backend: Python, NestJS
- Frontend: Next.js
- Video Processing: OpenCV
- Real-time Sync: WebSockets, Redis
- Deployment: Docker

## Use Cases

- Autonomous Driving Training Data
- Surveillance Video Analysis
- Smart City Projects
- Academic Research & Labs
- Any AI/ML Dataset Preparation

## Business Model

We are open to:

- Full source code and IP acquisition (exclusive sale)
- Enterprise licensing (flexible terms)

Reach out to discuss pricing and integration support.

## Contact

- nilamadhab47@gmail.com
- Demo access and code walkthrough available on request.

## Screenshots Available

(Product UI, annotation canvas, admin dashboard - to be attached in the final PDF)

**FrameFlow - Simplify Annotation. Scale Intelligence.**