

2025



Art Crop System

Multi-AI consensus cropping with 4-tier fallback intelligence. 2M+ images processed, 8 detail crops per artwork.

Python · OpenCV · rembg · Multi-AI Vision

2M+ Images Processed

Manual Cropping Can't Keep Up



15 Minutes Per Image

Each photo needs careful cropping to remove walls, frames, shadows, reflections. At scale, it's a full-time job.



Detail Shots Essential

E-commerce buyers need corner crops, signature closeups, condition shots. Nobody does this consistently by hand.



AI Models Hallucinate

Single-model cropping fails on complex frames, glass reflections, unusual compositions. Error rates above 20%.



Cost of Errors

Bad crops = bad listings = lost sales. One poorly cropped image costs more than the API call to fix it.

Art Dealers Process Thousands Monthly

2M+

Images processed through the pipeline
to date

15 min

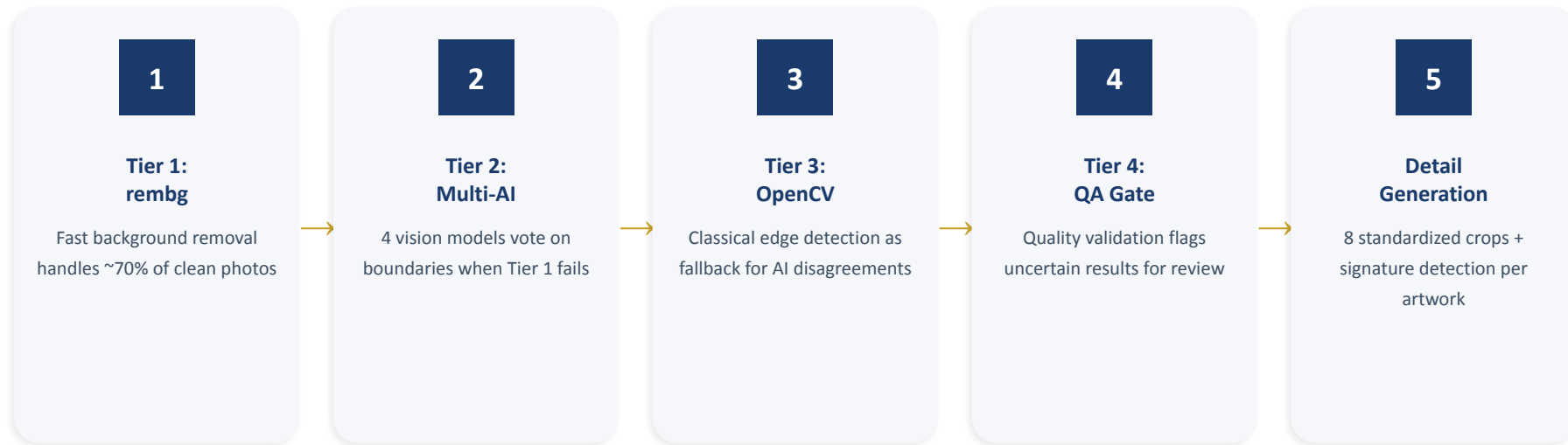
Manual crop time per image—150 hrs
for 600 pieces

>95%

Accuracy with multi-AI consensus
approach

Art dealers processing hundreds monthly face a choice: hire editors at \$30/hr or automate. This system processes an entire inventory in the time it takes to crop three images by hand.

Escalate Intelligence, Minimize Cost



Why spend \$0.05 on GPT-4 Vision when rembg solves it for free? Escalate intelligence only when the problem demands it.

Four Tiers of Intelligence, One Perfect Crop

■ 4-Tier Pipeline	rembg → AI consensus → CV → QA
■ Multi-AI Consensus	GPT-4V, Claude, Gemini, Grok vote
■ 8 Detail Crops	Corners, signature, condition shots
■ Batch Processing	Process full inventory folders
■ Cost Optimization	Escalate only when needed

TECH STACK

TIER 1

rembg (instant, free)

TIER 2

4 AI vision models

TIER 3

OpenCV edge detection

OUTPUT

8 detail crops per artwork

ACCURACY

>95% with all tiers

THE RESULTS

Industrial-Scale Image Intelligence

2M+

Total images processed through the pipeline

>95%

Boundary detection accuracy (tiered approach)

70%

Resolved at Tier 1—no AI cost required

8

Standardized detail crops per artwork

The tiered approach saves 70% of AI API costs by solving easy problems at lowest cost when needed

KEY TAKEAWAY

The Art Crop System embodies a core principle: use the cheapest tool that works, and escalate intelligence only when the problem demands it.

Computer Vision

OpenCV + rembg + AI vision

Cost Optimization

Tiered processing saves 70% on API

Scale Engineering

2M+ images through production pipe