



Beyond the Demo:

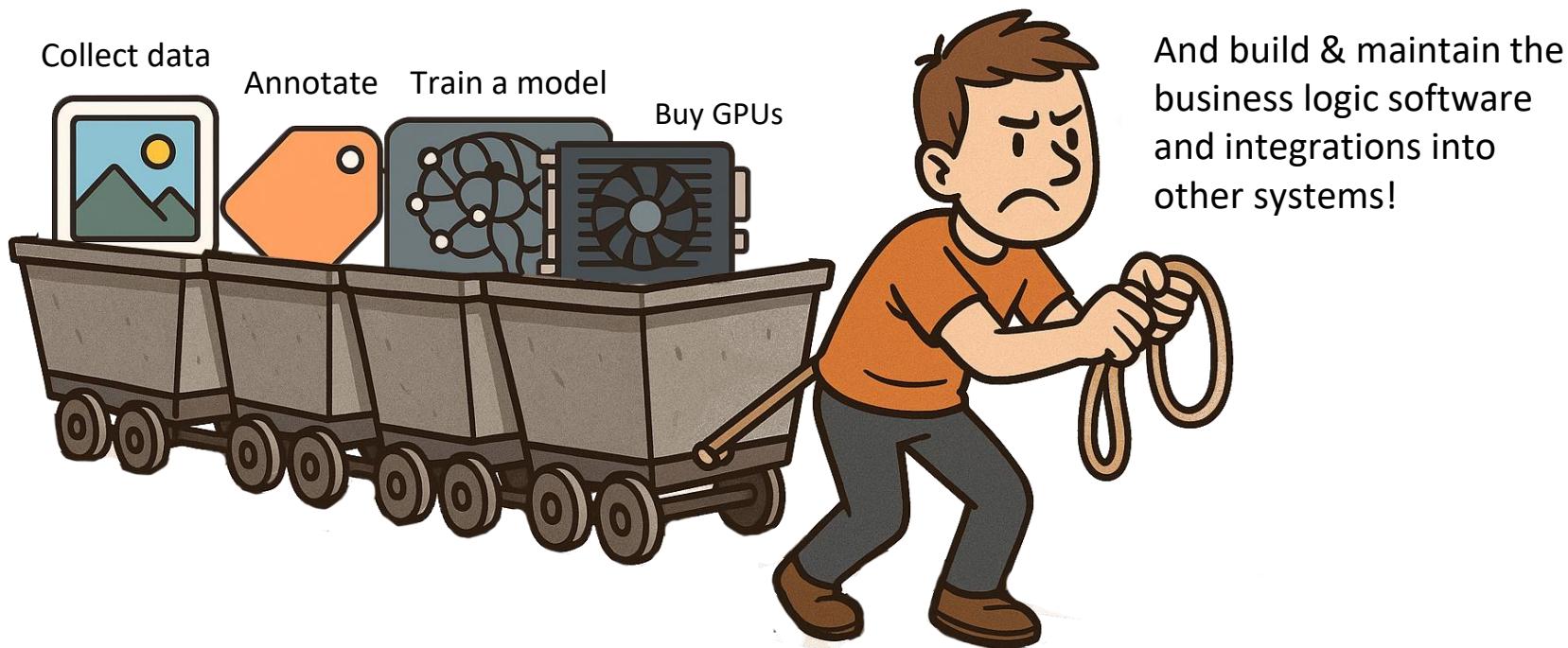
Turning Computer Vision Prototypes into Scalable, Cost- Effective Solutions

Kit Merker

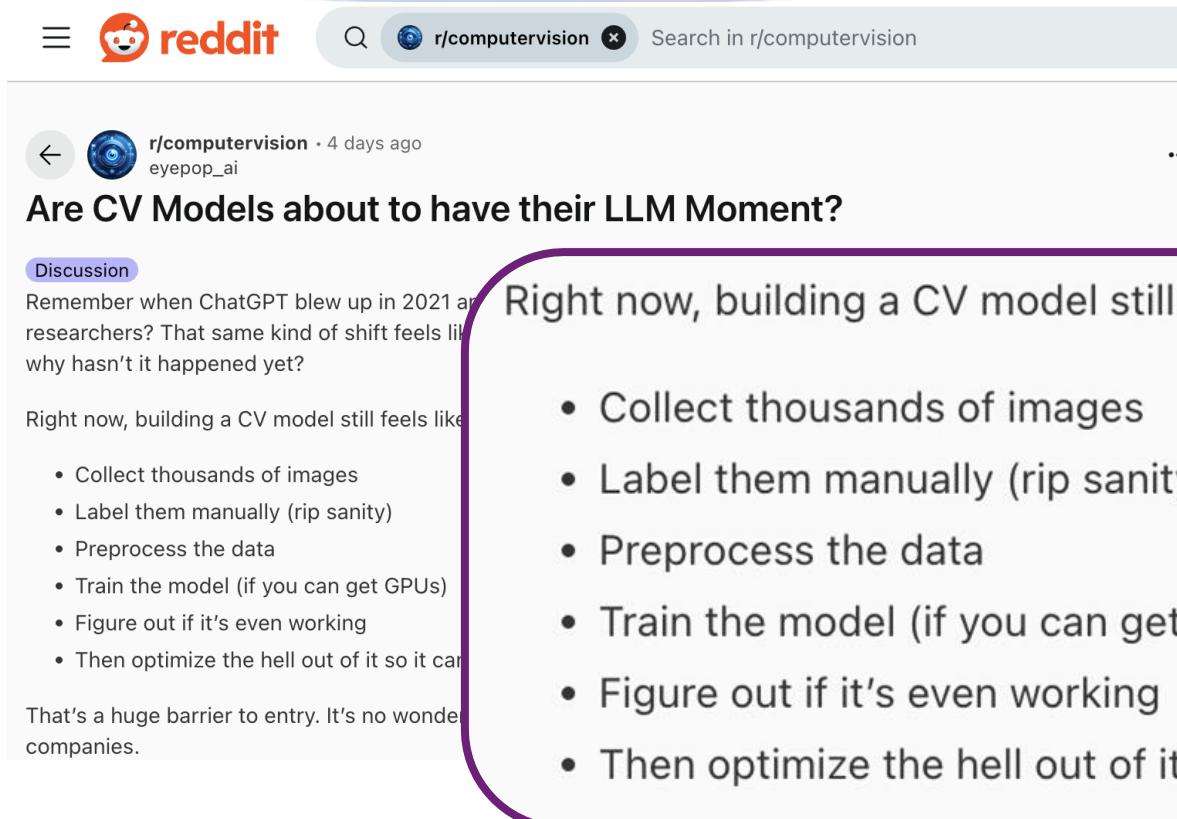
CEO

Plainsight Technologies

Picture This: You're About to Build Your First CV Application



You Check out r/ComputerVision to Get Started



≡  reddit Search  r/computervision  Search in r/computervision

 r/computervision • 4 days ago 

eyepop_ai

Are CV Models about to have their LLM Moment?

[Discussion](#)

Remember when ChatGPT blew up in 2021 and researchers? That same kind of shift feels like it's happening with CV models. Why hasn't it happened yet?

Right now, building a CV model still feels like:

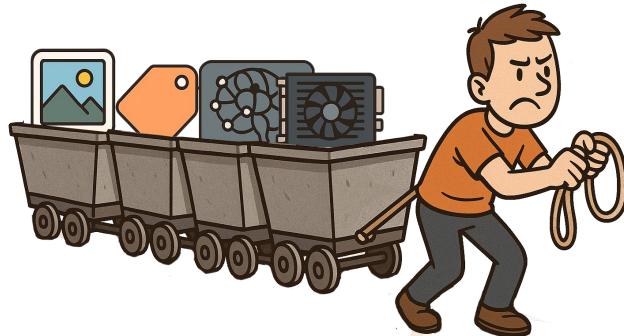
- Collect thousands of images
- Label them manually (rip sanity)
- Preprocess the data
- Train the model (if you can get GPUs)
- Figure out if it's even working
- Then optimize the hell out of it so it can run in production

That's a huge barrier to entry. It's no wonder companies.



Simple Use Case: Track License Plate Numbers

- Train or find a license plate detection model
- Crop license plates
- Run OCR on the cropped license plate



It's Actually 3 CV Applications!

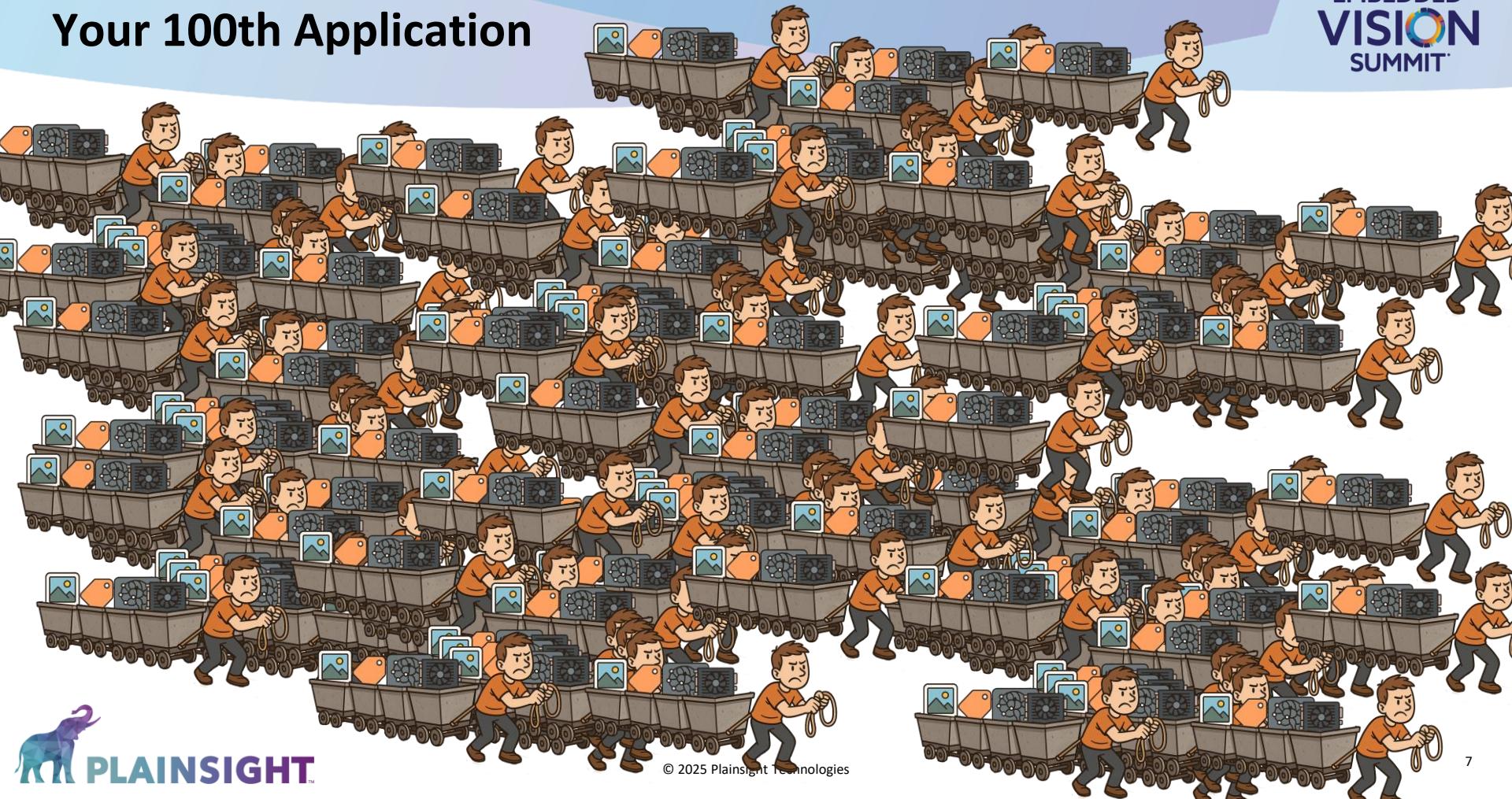
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Your 10th Application



Your 100th Application



Your 100th Application

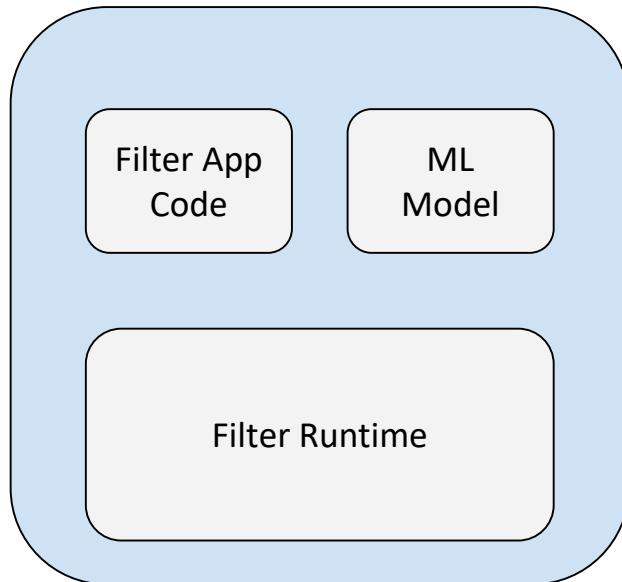


How do I...

- **Maintain** every model has to be maintained, even as it drifts?
- **Scale** projects without hiring more engineers?
- **Reuse components** like OCR and face detection in other apps?
- **Control costs** by maximizing hardware utilization?
- **Leverage** new technology in the rapidly evolving AI landscape?
- **Secure** software supply chain and no vulnerabilities?



Filters to the Rescue



- Filter is a **new universal abstraction** that defines a unit of vision workload
- Filters combine code + ML model each with separate lifecycles and supply chains
- Works with existing computer vision tools like PyTorch Models, OpenCV, and even YOLO.
- ML models are not necessary in all scenarios – traditional CV, utilities, tools for testing
- Open source implementation of Filter Runtime implemented in OpenFilter enabling anyone to build vision applications that scale

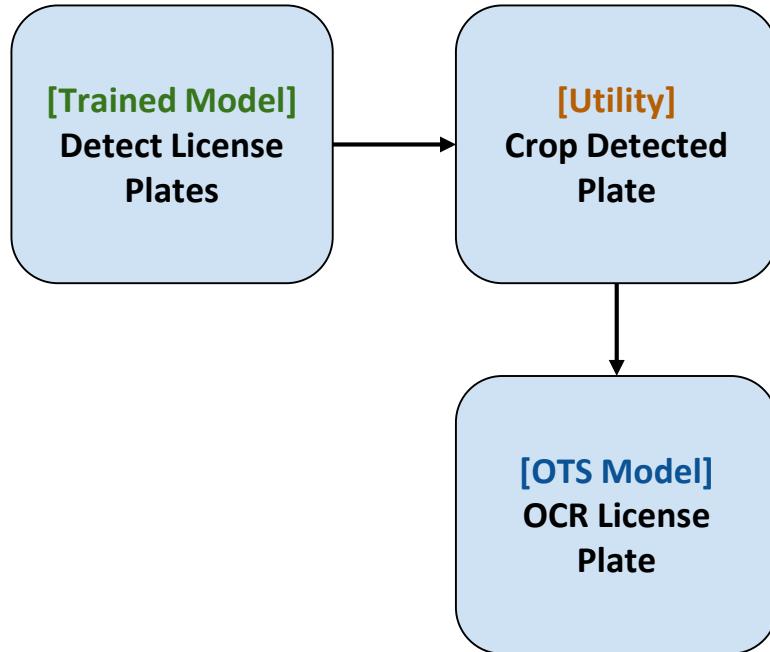


openfilter.io

Announced at the Embedded Vision Summit!

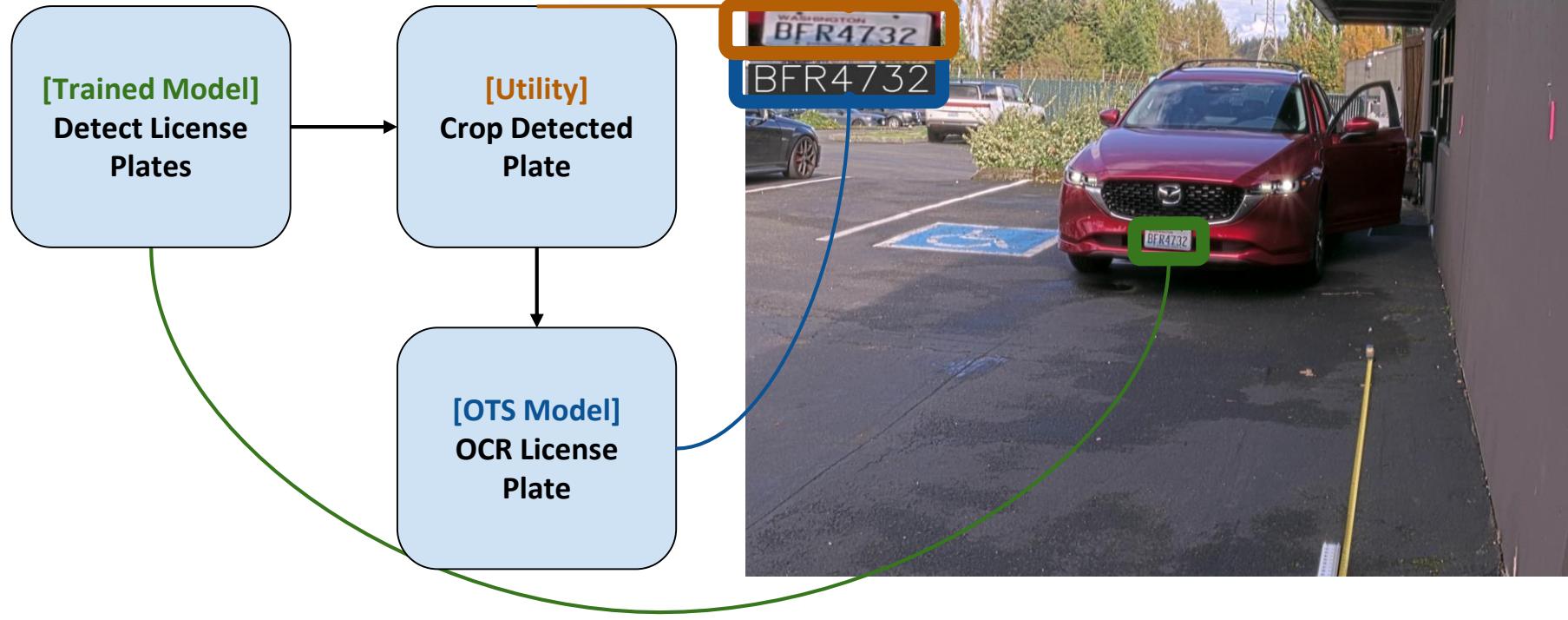


Track License Plate Numbers with Filters



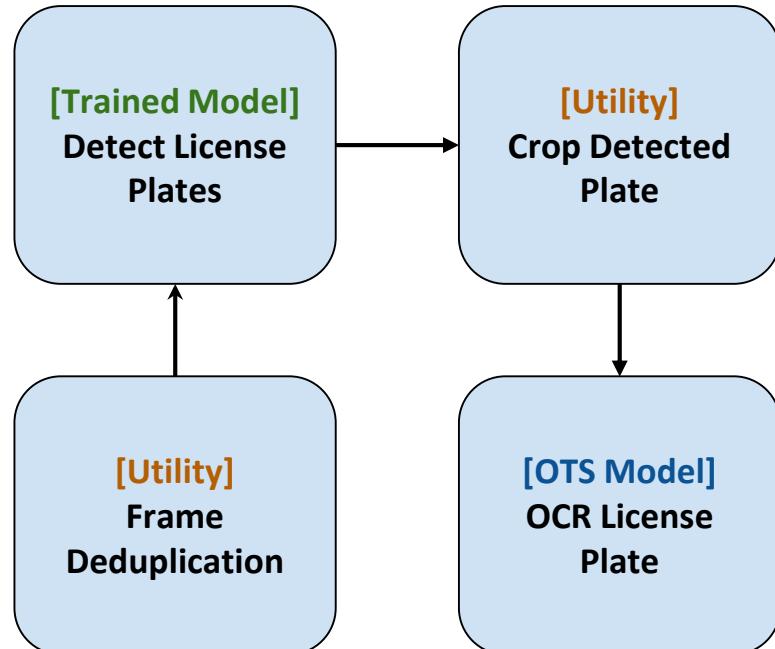
Each box in this diagram represents an OpenFilter package.

Track License Plate Numbers with Filters



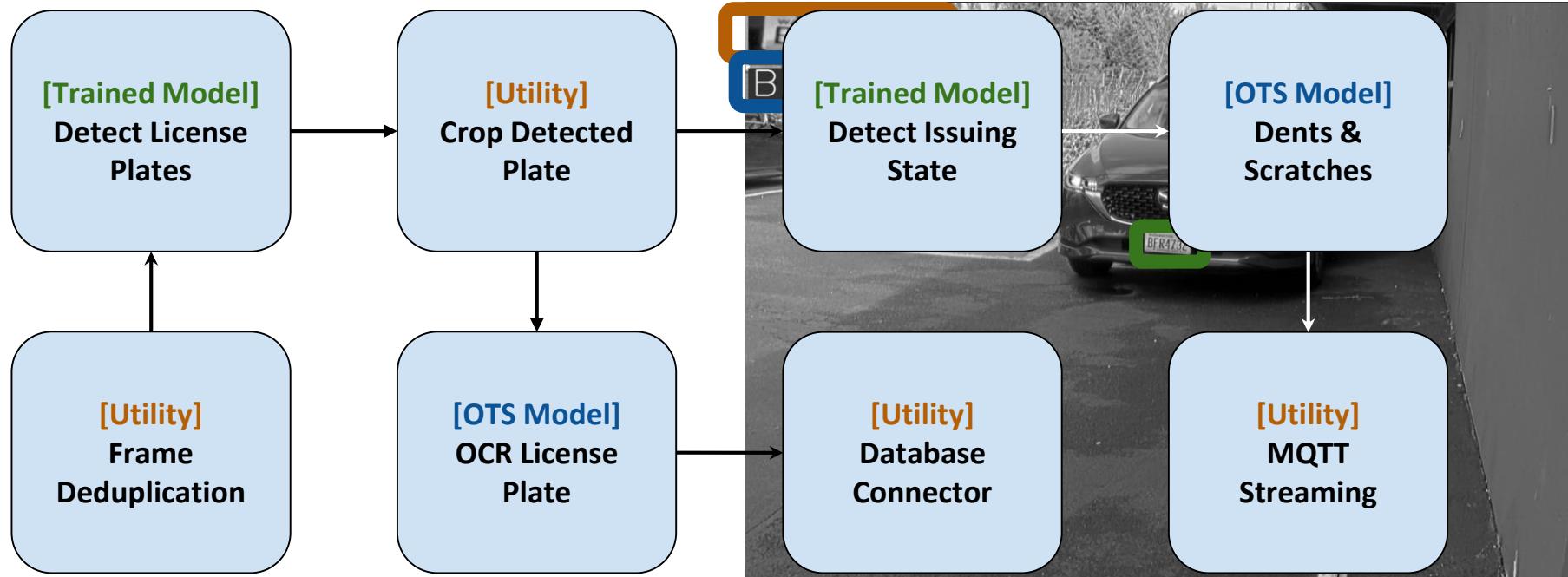
Each box in this diagram represents an OpenFilter package.

Track License Plate Numbers with Filters



Each box in this diagram represents an OpenFilter package.

Track License Plate Numbers with Filters



Each box in this diagram represents an OpenFilter package.

We Provide Vision Capabilities for Many Businesses



Object Detection



Visual Measurement



Anomaly Detection



Optical Character
Recognition (OCR)



Video Preprocessing

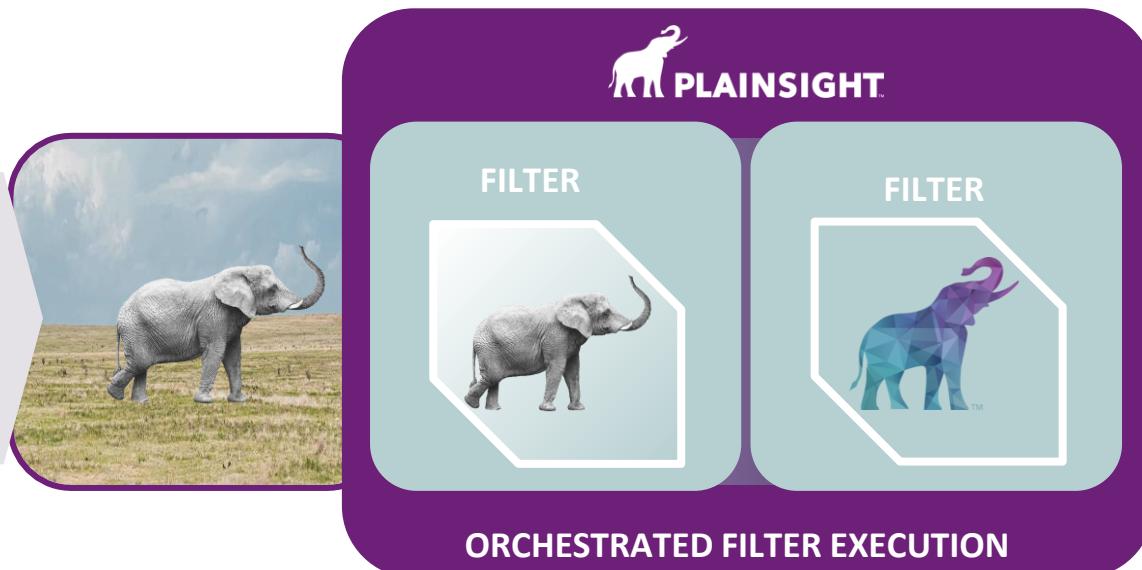


Event Detection

Plainsight Vision Filter Pipelines

EMBEDDED
VISION
SUMMIT™

Composable Computer Vision Data Infrastructure



TECHNOLOGY INTEGRATIONS

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DATA DESTINATIONS

OpenFilter vs. Plainsight VisionStack



OpenFilter

Ideal for proof of concept, academic, research, or hobbyist purposes.

- Source available on GitHub
- Filter Runtime
- Filter examples with pre-trained models
- Python wheels format
- No support or SLA



PLAINSIGHT™ VisionStack

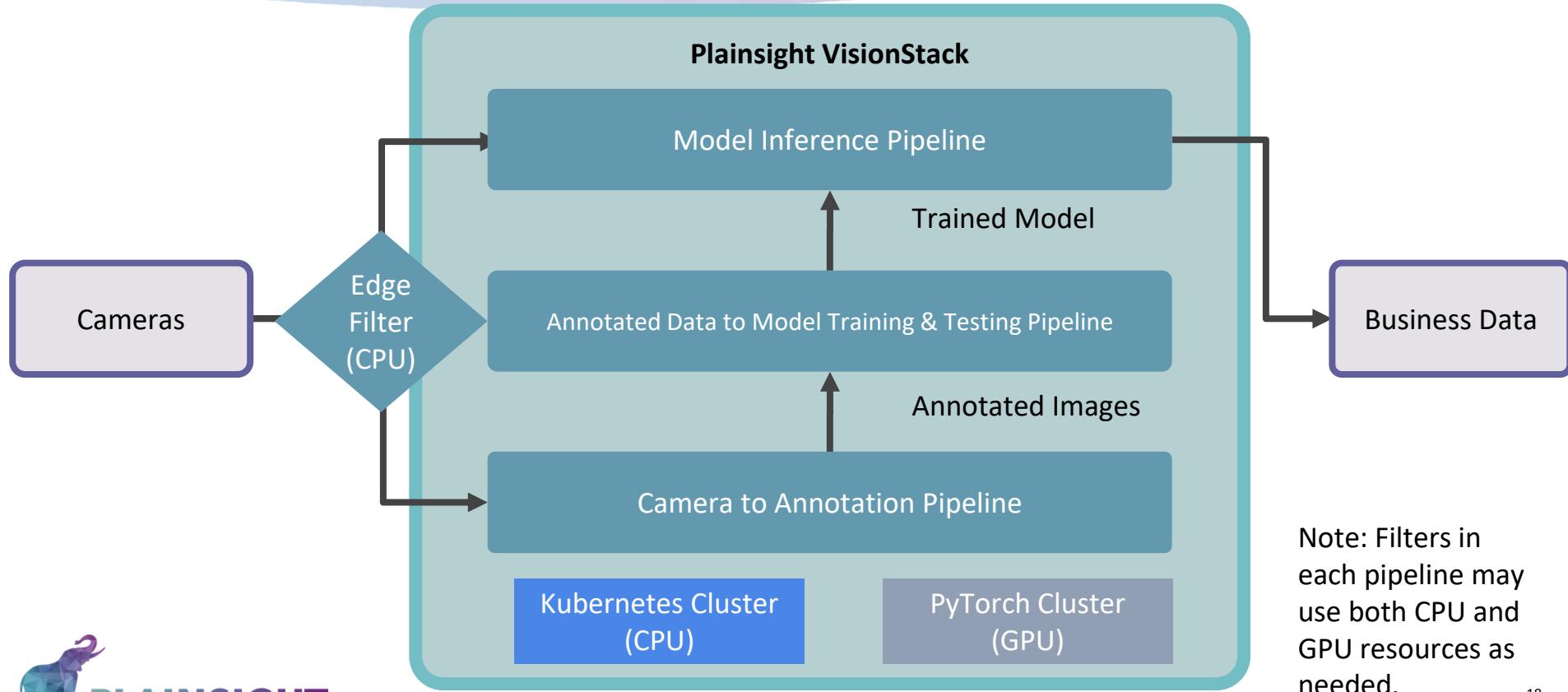
Ideal for building production deployments and complex use cases.

- Commercially Licensed
- 0 CVEs (Chainguard)
- Custom models with active learning
- Plainsight Filter Library
- Supported Docker Repo
- Enterprise Support SLA

OpenFilter for Model Inference Pipelines



Orchestrating Parallel Filter Pipelines to Generate Business Data



Demo: License Plate Number Detection



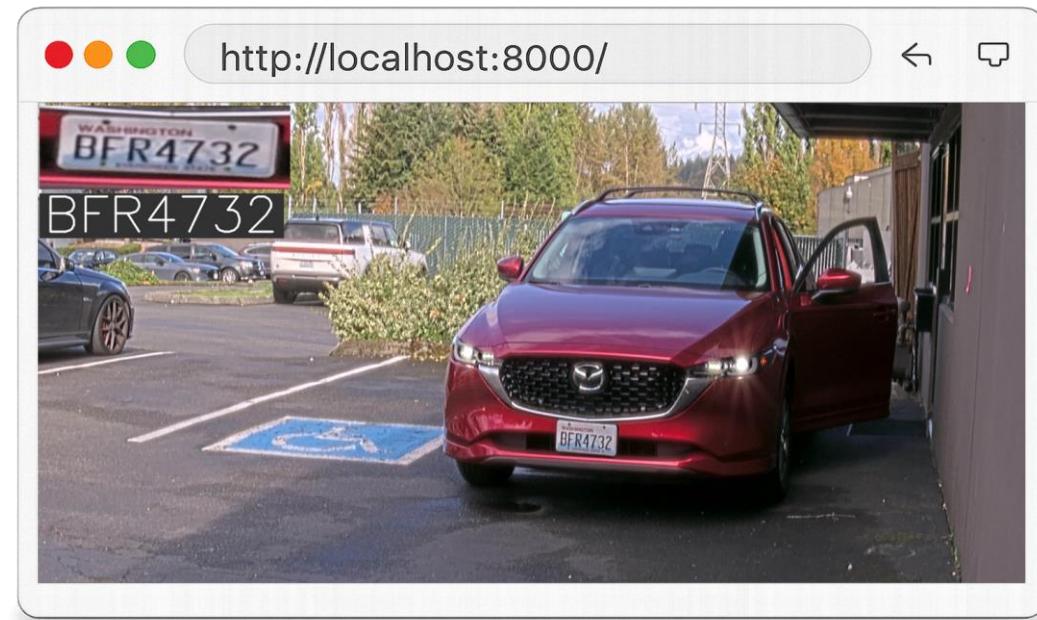
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Try OpenFilter Yourself!

OpenFilter Hello World

- `git clone
git@github.com:PlainsightAI/openfilter.git`
- `cd openfilter/examples/hello-world`
- `make install`
- `make run`
- Visit <http://localhost:8000>

See Live Demos of
OpenFilter and
Plainsight at Booth
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Filters Enable 1000s of Vision Workloads with Less Effort



Resources

- To learn more about the open source project, please visit openfilter.io or github.com/plainsightai/openfilter
- For more information on Plainsight, see plainsight.ai
- Visit our docs page at docs.plainsight.ai

Visit us at booth

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for a chance to
win a lego set!





THANK YOU

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Email: info@plainsight.ai

Contact: plainsight.ai/contact/

