

“What **Tobias** says about”

Big 4 Image Segmentation Roadblocks for Developers



Technically, image segmentation with ML solves problems smoothly, but teams building segmentation apps in real life run into several roadblocks that disrupt the workflow, challenge your team, and hinder the data labeling process.

Don't let inefficiencies kill projects!

Roadblock #1 Lack of proper data, insufficient data quality, and noisy data

What Tobias says:

“Garbage in, garbage out.” Without sufficient accurate training data representative of your business use case, your models will never perform well. What teams underestimate: 80% of the time spent is on data curation and preparation and not the actual model development.



Roadblock #2 Human-in-the-loop integration

What Tobias says:

While automation tackles simpler tasks, humans remain vital for complex cases. Here, prioritize “quality over quantity.” Invest in well-trained annotators and rigorous performance management to guarantee high-quality data.



Roadblock #3 Machine learning model interpretability

What Tobias says:

ML models are a black box and you need to work closely with the models and the data to understand their behavior. Use tools like Confident Learning, Active Learning, or Saliency Maps, to identify and understand edge cases and course correct.



Roadblock #4 Monitor models post-deployment

What Tobias says:

Segmentation for dynamic scenarios requires constant vigilance. A continuous improvement pipeline can proactively address concept drift by monitoring performance, identifying edge cases, and retraining models, ensuring ongoing accuracy.



Knock down segmentation roadblocks with **Accelerated Annotation**



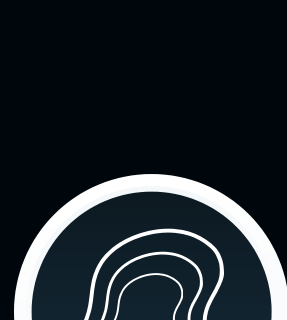
Data quality & noise

CloudFactory offers manual, semi-automated, and automated tools to create high-quality, clean training data for segmentation tasks.



Human-in-the-loop

Experienced, well-trained human annotators are integrated with AI-powered automation for superior data quality.



Model interpretability

Accelerated Annotation leverages ML techniques such as Confident Learning, Active Learning, and Saliency Maps to automatically identify edge cases for human review and provide advanced data insights.



Mitigate model, concept, and data drift

CloudFactory's data flywheel approach facilitates adaptation to changing data patterns, mitigating the impact of concept drift.



Meet Tobias Schaffrath Rosario

Tobias is an AI Solutions Consultant at CloudFactory, connecting our tech to our client's needs. He is passionate about helping teams turn AI ideas into real-life projects and is sharing his experience from dozens of projects to increase the number of AI projects that make it to production.