



Instance Segmentation



Semantic Segmentation



Panoptic Segmentation







Scale's Automotive Foundation Model

Foundation Models offer a new paradigm for machine learning. As OEMs transition from intense R&D to scaled production for advanced self-driving systems, Foundation Models will be the key to achieving safety and efficiency.

AFM-1 is the next evolution of the Automotive Data Engine – empowering teams to deliver advanced computer vision capabilities for autonomous vehicles to safely perceive and navigate complex environments.

Model Capabilities

Unlimited taxonomies with a single model to accelerate a broad range of computer vision tasks

 Panoptic Segmentation	 Instance Segmentation
 Semantic Segmentation	 Image Search & Curation
 Object Detection	 Classification

The Scale Data Engine

Developing safe, capable autonomous vehicles requires immense amounts of high-quality labeled data and simulation testing. Manual labeling and testing bottlenecks delay time-to-market and increase costs for fleet management.

AFM-1 is designed to curate and generate training data for the rigorous performance, safety, and reliability requirements of level 4 and level 5 automation.



Rapidly Find the Data You Need

Search with open vocabulary queries for features inside or outside your taxonomy. Search becomes even more powerful once data lake integration become available



Get Higher-quality, Lower-cost Data

Inject higher-quality pre-labels into tasks. Utilize more active tooling to produce data faster. Utilize ML quality models to ensure label accuracy



Increase Development Velocity

Rapidly experiment with new taxonomies. Create living datasets that can be updated as the taxonomy changes