

Product Overview

BASIC FACTS	
≡ Type	software
	SaaS
	cloud-based
≡ Main users	perception systems developers
	OEMs
	Tier 1s
≡ Main methods	Data augmentation
	corruptions
	image perturbation
≡ Testing object/data	camera images
≡ Main purpose	performance analysis for safety validation
≡ Second purpose	Increase reliability by filling in data gaps
≡ Other functionalities	horizontal scaling
	MLOps integration
	artifact export
	interim result monitoring
	version tracking
	reporting

Product Descriptions

AUDIENCE	LENGTH	WORDS
Technical	Long	200
<p>aidkit is neurocat software product for safety validation of camera-based perception systems used in Autonomous Vehicles. By augmenting data using perturbation-based image operations, aidkit tests the performance of perception models under numerous conditions possible in an ODD but not easily captured in fleet data. This testing allows for validation of safe performance, identification of edge and corner cases where performance falters, and guidance for data campaigns to improve those areas where performance introduces unreasonable risk. By using augmented data to test at the component level aidkit supplements and reduces the time and cost of subsequent simulation and system tests.</p> <p>aidkit is built with the user, workflow, and goal of timely deployment in mind. Relevant artifacts – from statistics to generated data – can be directly exported and included in an MLOps workflow. Users can monitor interim results to enable rapid decision-making on the quality of perception algorithms. aidkit integrates seamlessly into the developer’s environment, supports efficient versioning for testing pipelines, and uses a lean and compute-efficient approach so it can handle larger datasets and testing tasks. aidkit’s understandable quantification of risk and reporting features enables safety experts to make clear safety arguments and demonstrate removal of all unreasonable risk prior to deployment.</p>		

AUDIENCE	LENGTH	WORDS
General	Medium	106
<p>aidkit is the toolkit to test the perception functions of ADAS/ADS and ensure they are safe for deployment.</p> <p>By testing the model at the heart of your perception component for robustness against a range of altered scenes, aidkit ensures reliable performance in your ODD.</p> <p>Where performance falters, aidkit guides your data campaign so you know how to improve. aidkit integrates into existing workflows across your team and is optimized to reduce time to deployment though useful features such as scaling, data lineage, and automatic retraining.</p> <p>Deploy a safer perception component with the empirical evidence to back up your safety claims to safety managers and external regulators.</p>		

AUDIENCE	LENGTH	WORDS
General	One-liner	10
<p>aidkit validates perception function safety across an ODD before deployment</p>		
Space for notes		