

# Full Lifecycle AI Transparency

Trustable AI with Explainability from Development to Production

Complex AI-based products face significant challenges despite substantial investments. AI models, essentially black boxes, are so intricate that existing tools cannot properly diagnose them. Their overwhelming complexity severely limits data scientists' ability to understand, analyze, or test them effectively. Even in production, these models frequently fail, leading to severe consequences.

## Get the Visibility You Need to Build Models You Trust

Tensorleap stands alone in addressing these challenges by providing comprehensive XAI tools for development as well as real-time monitoring in production, ensuring reliability and performance from start to finish.



### Automated Root Cause Analysis

Understand and fix model failures with automatic and unsupervised root cause detection to fully explain model behavior in edge cases and arrive at reliable conclusions



### Segmented Model Unit Testing

Automatically create and run countless segmented tests to verify model quality in hundreds of possible scenarios



### XAI-Based Dataset Curation

Analyzes datasets to identify underrepresented scenarios, guiding efficient data labeling and reducing unnecessary data collection

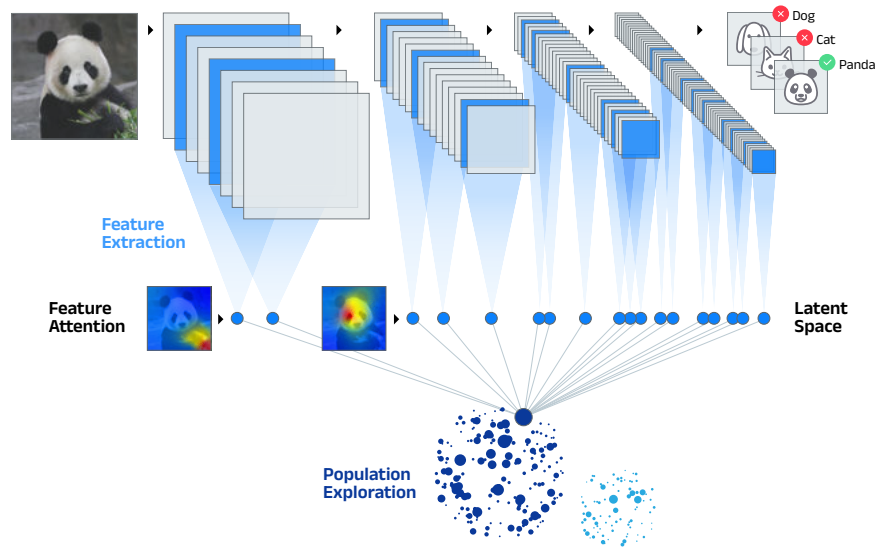


### Real-Time Production Monitoring

Detect anomalies and performance issues instantly. Receive timely alerts and detailed diagnostics to maintain optimal model performance and avoid costly downtimes

# TENSORLEAP

1. Tensorleap runs mathematical operations on each node in the neural network's computational graph.
2. Indicators from all model feature maps are extracted and the indicators' contributions are evaluated.
3. Tensorleap's algorithms construct the most informative latent space to explain the model's interpretation, find clusters of samples, and more.



Any data type

1hr integration

Cloud / On-prem

## Why Tensorleap Now



### Gain Clarity and Insight

Understand model interpretations, detect and fix failures quickly, and slash the number of experiments



### Boost Reliability

Pinpoint, resolve and test all populations and verify that the model relies on the right features



### Balance Datasets

Identify and remove irrelevant data, eliminate bottlenecks and only label what's needed



### Ensure Real-Time Performance

Improve performance, increase confidence & help avoid failures



### Develop Neural Networks 10x Faster

Build your models based on proof and analysis rather than guesswork



### Cut Development Costs

Boost productivity by maximizing process efficiency and reducing resource use

Tensorleap is trusted by Fortune 500 companies spanning various domains and industries, including automotive, healthcare, robotics, manufacturing, and more.