

From Static to Adaptive: The Nested Learning Paradigm for AI

The High Cost of Static AI



Prohibitive Retraining Costs **\$2.3 MILLION+**

A single model refresh can cost over \$2.3 million annually in compute resources.

Operational Lag & Missed Opportunities

2.1% REVENUE LOSS

A 6-8 week retraining cycle caused one retailer to lose 2.1% of revenue.



Eroding User Trust and Adoption

43% RESISTANCE

43% of AI deployments face resistance from users due to outdated information.



The Solution: Nested Learning in Action

Three Key Architectural Innovations



Deep Optimizers



Self-Modifying Models

Continuum Memory systems enable AI to adapt.

Drastic Cost Reduction & Improved Performance



58% COMPUTE COST REDUCTION

One company cut compute costs by 58% while maintaining accuracy using an NL architecture.