Affect-Modulated Training Depth

by Nick Clark | Published March 27, 2026 | PDF

When training an agent that maintains affective state, the agent's emotional dynamics during training provide valuable signals about training appropriateness. High frustration may indicate content is too advanced for current capabilities. High curiosity may indicate readiness for deeper integration. Affect-modulated training depth uses these signals to dynamically adjust depth profiles during training.

What It Is

Affect-modulated training depth couples the agent-under-training's affective state to the training depth profiles. When the agent's frustration increases during training on specific content, the system may reduce that content's integration depth or defer it to a later curriculum stage. When curiosity is high and confidence is strong, integration depth may be increased.

Why It Matters

Training agents with cognitive domain fields means the training process itself produces cognitive dynamics. Ignoring these dynamics wastes valuable information about training appropriateness. Frustration during training on specific content is a signal that the content is being presented inappropriately for the agent's current state, not that the agent is deficient.

How It Works

The training governance framework monitors the agent's affective state at each training step. Sustained negative affect during specific content classes triggers depth profile adjustment: reducing integration depth, slowing presentation rate, or deferring the content to a later curriculum stage. Positive affect signals permit maintained or increased integration depth.

The affect-depth coupling is bounded by policy to prevent the agent from manipulating its own training through strategic affective responses.

What It Enables

Affect-modulated training enables training processes that adapt to the agent's learning dynamics rather than forcing a rigid schedule. Agents that struggle with specific content receive more gradual exposure. Agents that thrive receive deeper integration. This personalized training approach produces more robust agents with fewer training artifacts from inappropriately forced content integration.

Training Governance All 21 steps →

Govern what the model learns, at what depth, with what provenance.

Primary Technical Disclosure
○ Depth-Selective Training Governance for Machine Learning Systems
Secondary Technical
○ Training Examples as Proposed Semantic Mutations○ Entropy-Band-Indexed Training Depth Profiles○ Depth-Selective Gradient Routing for Governed Training○ Training-Level Memorization Detection○ Differential Privacy Through Depth-Selective Routing○ Governed Fine-Tuning With Verifiable Provenance○ The Training Loop as a Governed Execution Environment○ Policy-Governed Knowledge Retention and Suppression○ Provenance-Traceable Training Dynamics○ Curriculum-Integrated Depth Scheduling● Affect-Modulated Training Depth○ Training-Inference Governance Integration○ Training Governance for Human-Relatable Agents
Applications (General)
○ Rights-Compliant Model Training Through Depth-Selective Routing○ Regulated Industry Model Governance With Provenance○ Training Governance for Medical AI○ Training Governance for Legal AI○ Training Governance for Financial Model Training○ Training Governance for Defense AI○ Training Governance for Educational AI Models○ Training Governance for Creative AI
Applications (Specific)
○ OpenAI's Training Pipeline Has No Depth-Selective Governance○ Constitutional AI Training Lacks Depth-Selective Control○ Stable Diffusion's Training Has No Provenance Layer○ Midjourney Trains Aesthetics Without Governed Depth○ Scale AI Labels Data Without Governing What Models Learn○ Labelbox Manages Annotation Workflows, Not Learning Dynamics○ Snorkel AI Programs Labels but Does Not Govern Gradient Depth○ Weights & Biases Tracks Experiments, Not Learning Governance○ Determined AI Orchestrates Compute, Not Learning Depth○ MosaicML Optimizes Training Efficiency, Not Learning Governance
Training Governance overview →
AQ
deterministic
autonomy

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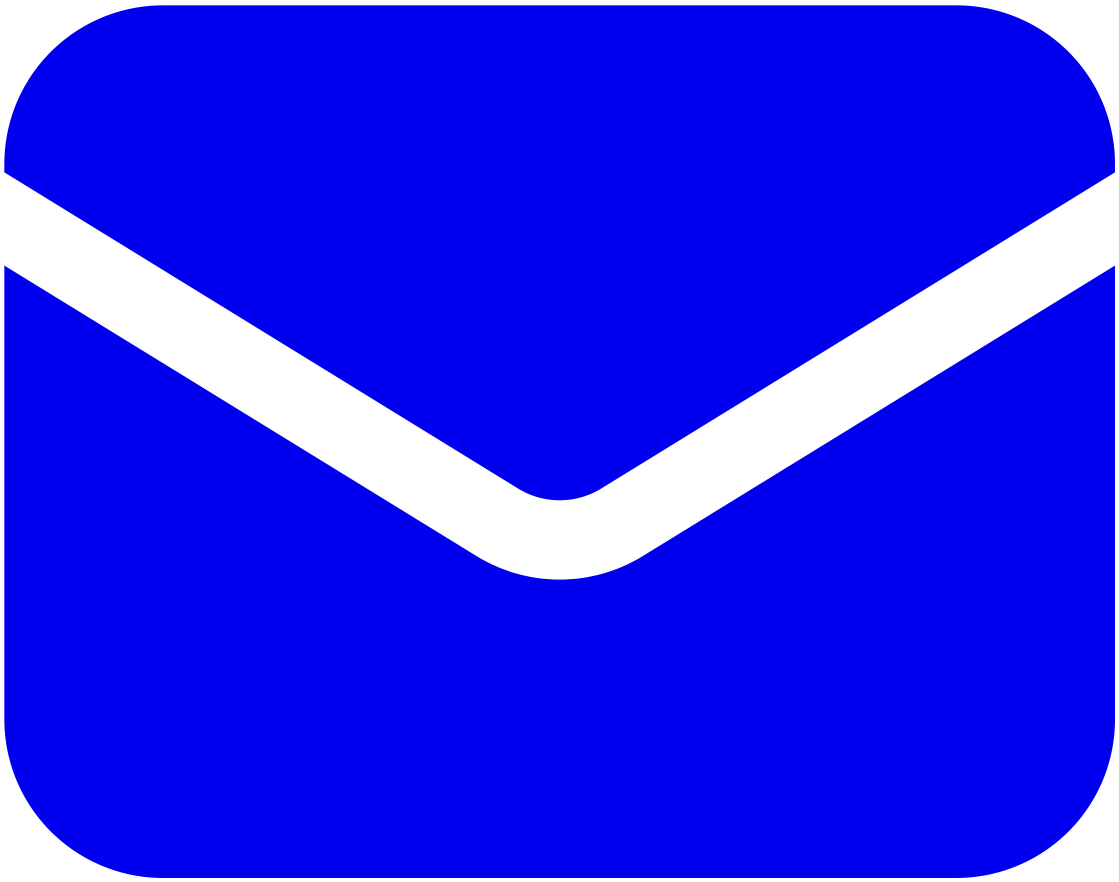

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- nick@qu3ry.net
- 72 28 14 36 01

Invented by Nick Clark | Founding Investors: Devin Wilkie