

# Continuous Learning Systems

## Adaptive Medical AI

Continuous learning allows RLHF systems to adapt to new medical knowledge, evolving guidelines, and emerging conditions.

## Learning Pipeline

- Data Collection: Continuously gather new preferences and outcomes
- Quality Control: Validate and filter incoming feedback
- Incremental Training: Periodically update models
- Validation: Test updated models before deployment
- Staged Rollout: Gradual deployment with monitoring

## Update Frequency

- Critical Updates: Immediate for safety issues
- Guideline Changes: When major clinical guidelines update
- Performance Improvement: Monthly or quarterly cycles
- Seasonal Adjustments: For seasonal conditions (e.g., flu)