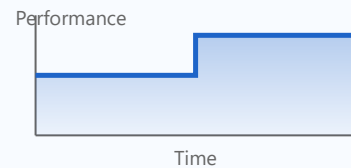


Concept Drift Detection (Concept Drift Detection)

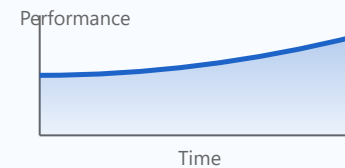
Drift Types

Sudden Drift



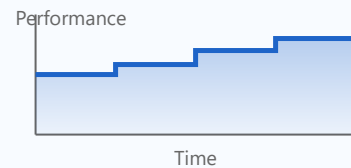
Abrupt change (e.g., Pandemic)

Gradual Drift



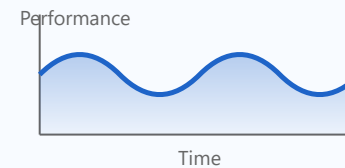
Progressive change (e.g., Population aging)

Incremental Drift



Stepwise change

Recurring Drift



Periodic pattern (e.g., Seasonal diseases)

Detection Methods

- Statistical Tests: KS test, Chi-square test
- Performance Monitoring: Accuracy, AUC tracking
- Distribution Comparison: KL divergence, Wasserstein distance

- Window-based Methods: Sliding window, ADWIN

Detection Algorithms

- DDM (Drift Detection Method)
- EDDM (Early Drift Detection Method)
- Page-Hinkley Test
- CUSUM (Cumulative Sum Control Chart)