Lab: Model Monitoring

Objective: Detect data drift in a simulated production environment.

Task 1: Baseline

- Train a simple classifier on "Reference" data.
- Log performance metrics.

Task 2: Simulation

- Simulate a stream of "Production" data that gradually changes statistics (e.g., add noise, shift mean).
- Run predictions.

Task 3: Detection with Evidently

- Use `evidently` to compare Reference vs. Current batches.
- Generate a Data Drift Report (HTML).