

CI/CD Pipelines for ML

Automated pipelines for Continuous Integration and Continuous Deployment of ML models



Code Commit

Git Push



Build & Test

Unit Tests



Model Training

Validate



Validation

Clinical



Staging

Test Env



Production

Deploy

Trigger

GitHub, GitLab, Bitbucket webhooks

Testing

pytest, unittest, Docker build

Metrics

Check performance regression

Safety

Ensure thresholds met

Integration

PACS/EHR system testing

Strategy

Canary/Blue-Green rollout

Tools & Platforms

Jenkins

GitHub Actions

GitLab CI

Azure DevOps

CircleCI