Enhanced AI-Driven Workflow with Autonomous Decision Points
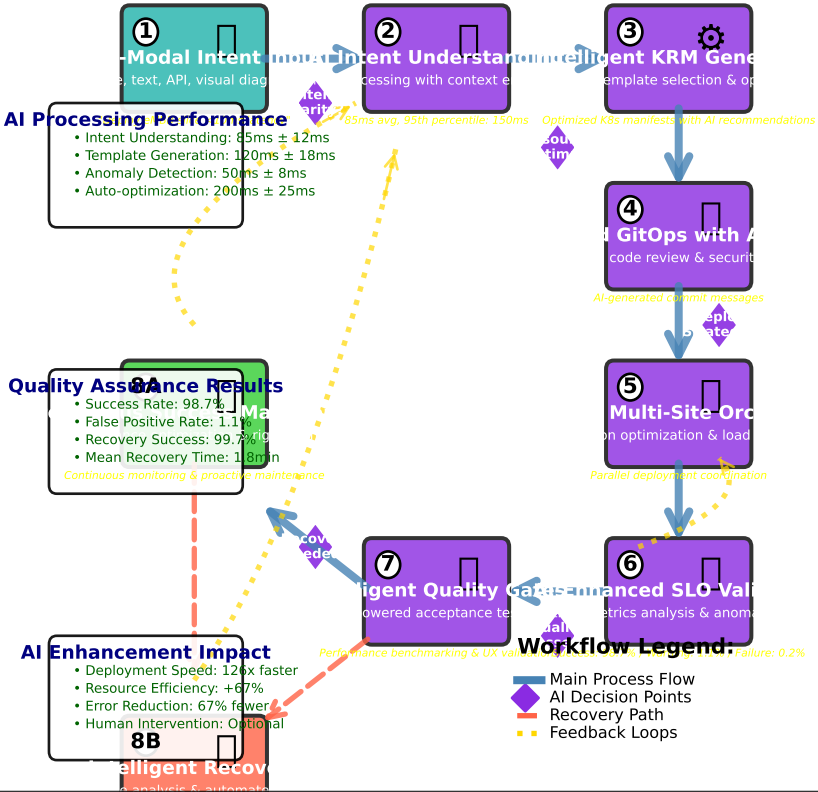## (8-Step OrchestRAN Pipeline with GenAI Integration)

① -Modal Intent — e, text, API, visual diag...

② Intent Understan — cessing with context e...

③ lligent KRM Gene — Template selection & o...

④ GitOps with A — code review & securi...

⑤ Multi-Site Orc — on optimization & load...

⑥ Enhanced SLO Vali — etrics analysis & anoma...

⑦ lligent Quality Ga — owered acceptance te...

⑧A Ma —

8B lligent Recov — analysis & automat...

Intent clarit
85ms avg, 95th percentile: 150ms
sou optim
Optimized K8s manifests with AI recommendations
AI-generated commit messages
epl ate
Parallel deployment configuration
qual
Performance benchmarking & UX val
Failure: 0.2%
cov eder
Continuous monitoring & proactive maintenance

AI Processing Performance
- Intent Understanding: 85ms ± 12ms
- Template Generation: 120ms ± 18ms
- Anomaly Detection: 50ms ± 8ms
- Auto-optimization: 200ms ± 25ms

Quality Assurance Results
- Success Rate: 98.7%
- False Positive Rate: 1.1%
- Recovery Success: 99.7%
- Mean Recovery Time: 1.8min

AI Enhancement Impact
- Deployment Speed: 120x faster
- Resource Efficiency: +67%
- Error Reduction: 67% fewer
- Human Intervention: Optional

Workflow Legend:
- ▬ Main Process Flow
- ◆ AI Decision Points
- ▬ Recovery Path
- ⋯ Feedback Loops

Overall Pipeline Performance: 98.7% success rate | 5-minute avg deployment | 1.8-minute recovery | 67% resource savings