Alert Systems (Alert Systems)

🚨 Multi-tier Alert System Architecture

📊 **Real-time**
Monitoring

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🔍 **Threshold Evaluation**
Threshold Evaluation

Performance 95-100% · Performance 90-95% · Performance 85-90% · Performance <85% or safety issue

| **Level 1** 📝 Informational Log Auto-log only | **Level 2** ⚠️ Warning (Yellow) Email/Slack notification | **Level 3** 🔔 Urgent (Orange) SMS/Phone notification | **Level 4** 🚨 Critical (Red) Auto rollback |

🎯 Response Actions

| ✓ **Auto log** • Save metrics • Update dashboard | 📧 **Team notification** • Send email • Slack message | 📞 **On-call notification** • Send SMS • Phone notification | 🔴 **Emergency response** • Execute auto rollback • System suspension |

⏱ Escalation: Level 1 → 2 (5min) → 3 (15min) → 4 (30min or immediate)
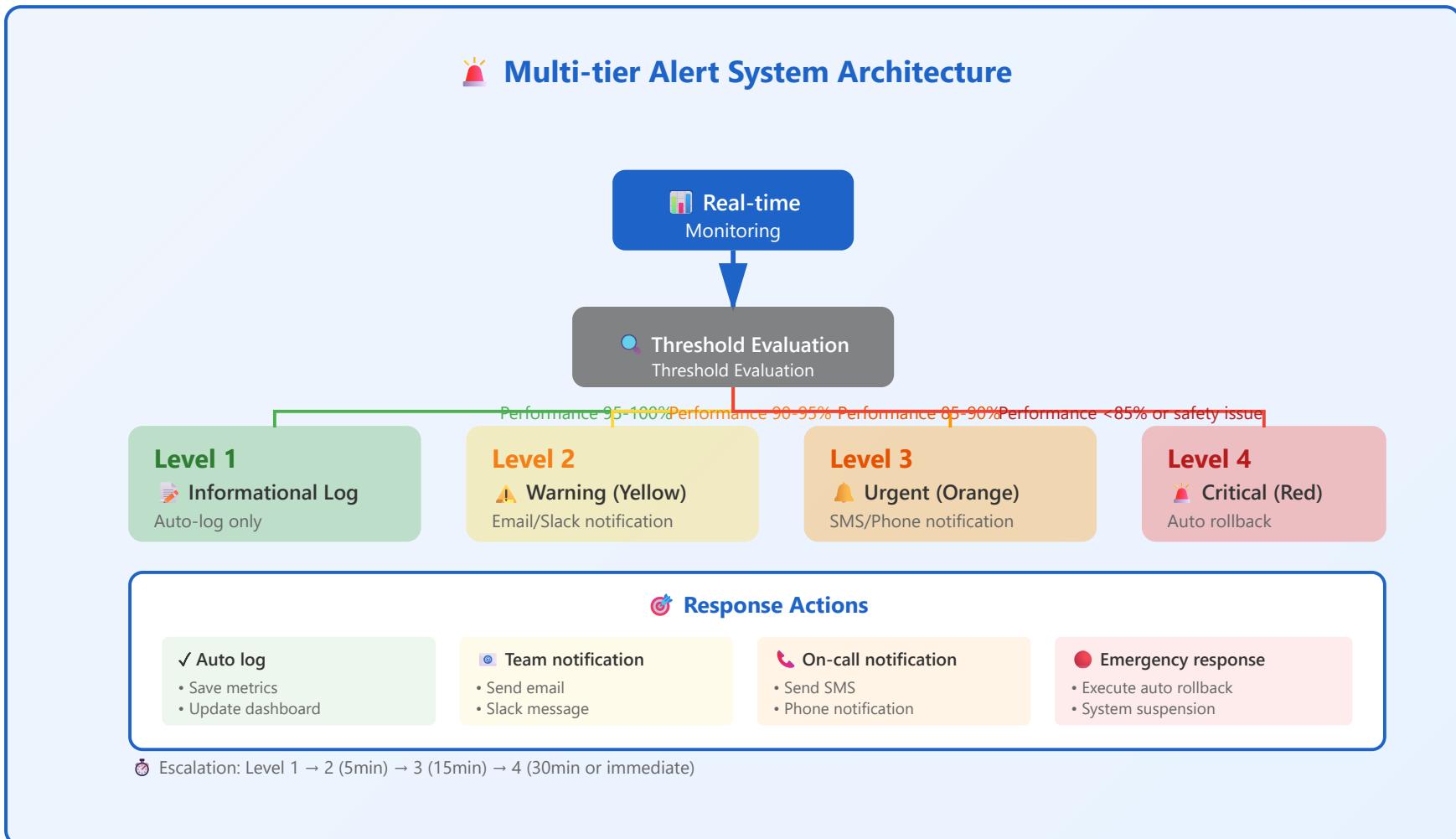
🚨 Alert Types

- Performance Alerts: Accuracy drop, latency increase

- Data Drift Alerts: Input distribution change detection

- System Alerts: Server down, memory shortage

- Safety Alerts: Dangerous prediction patterns

⚠️ Threshold Settings

- Warning (Yellow): Accuracy < 95%

- Critical (Orange): Accuracy < 90%

- Emergency (Red): Accuracy < 85% or safety issue

- Adaptive Thresholds: Statistical anomaly detection

📢 Alert Flow

- Level 1: Auto log recording

- Level 2: Email/Slack notification

- Level 3: SMS/Phone notification (On-call)

- Level 4: Auto rollback and escalation