



AIOPS

TRAINING PROGRAM

Duration: 40-50 Hours Level:
Intermediate → Advanced Mode:
Theory + Hands-On Labs + Real-
Time Incident Scenarios



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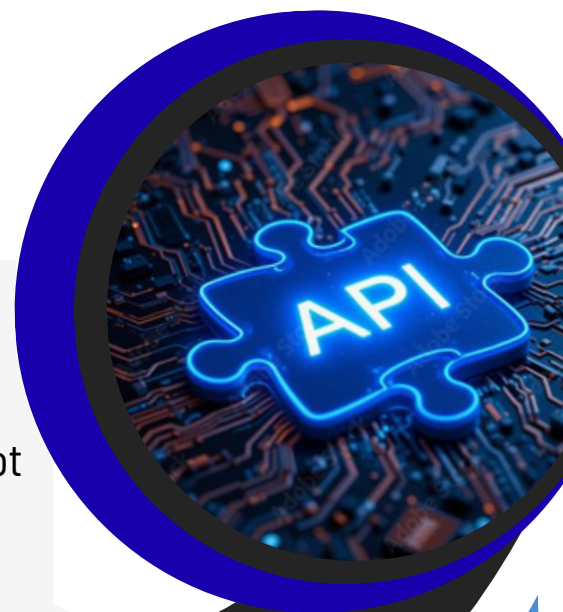
MODULES

MODULE 1: AIOps Fundamentals (4 Hours) Topics: What is AIOps? Evolution from ITSM → DevOps → SRE → AIOps Observability vs Monitoring Big Data in IT Operations AI/ML basics for Ops Job Scenario: Manual monitoring causing delayed incident detection

MODULE 2: Data Collection & Observability (6 Hours) Topics: Logs, Metrics, Traces Centralized Logging Monitoring Architecture Event Correlation Data Normalization Lab: Collect logs from multiple systems Visualize metrics Job Scenario: Multiple alerts for one outage – how to correlate?

MODULE 3: Machine Learning for AIOps (6 Hours) Topics: Supervised vs Unsupervised Learning Anomaly Detection Techniques Time-Series Forecasting Pattern Recognition Noise Reduction Lab: Detect anomalies in server CPU data

MODULE 4: Incident Management & Root Cause Analysis (6 Hours) Topics: Event Correlation Root Cause Analysis (RCA) Alert Prioritization Ticket Automation Predictive Incident Prevention Lab: Correlate alerts from 5 systems Identify root cause Job Scenario: Application outage – identify root cause in 10 minutes





MODULE 5: Automation & Self-Healing Systems (6 Hours) Topics:

Runbook Automation Auto-Remediation Script-Based Recovery

Infrastructure Automation ChatOps

Lab: Configure automated restart on failure

Job Scenario: Auto-scale system when load increases

MODULE 6: AIOps Tools & Platforms (6 Hours) Popular Platforms

Covered: Dynatrace Splunk Moogsoft Elastic Stack ServiceNow Lab:

Configure alert integration Build dashboard

MODULE 7: Cloud & DevOps Integration (5 Hours) Topics: AIOps in Cloud

Environments Kubernetes Monitoring CI/CD Observability Container

Monitoring SRE & Error Budgets

Job Scenario: Kubernetes pod crash detection

MODULE 8: Security & Compliance in AIOps (4 Hours) Topics: Security

Event Correlation SIEM Integration Compliance Monitoring Threat

Detection

MODULE 9: Advanced Topics (4 Hours) Predictive

Analytics Capacity Planning Cost Optimization AI

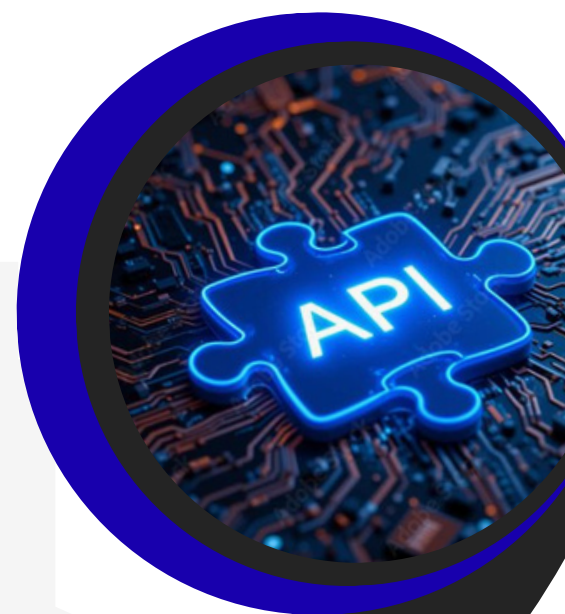
Model Bias & Drift Data Governance

Job Roles

AIOps Engineer Site Reliability

Engineer (SRE) DevOps Engineer IT

Operations Analyst Observability Engineer



CAPSTONE PROJECT

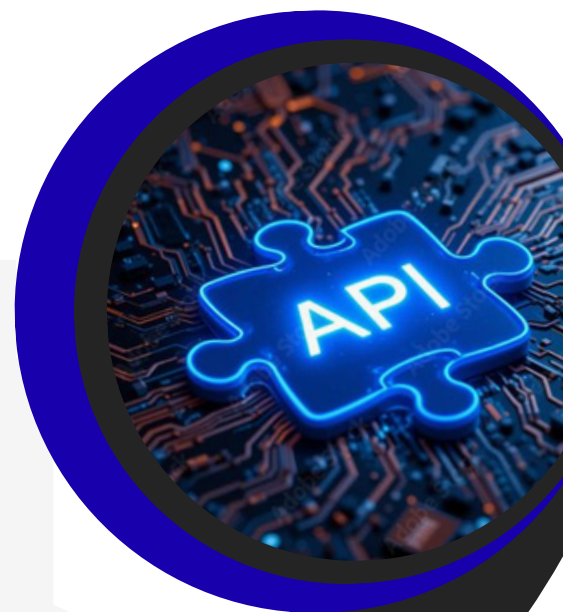
Project: Intelligent IT Operations Platform Includes: Multi-source log ingestion Alert correlation Anomaly detection Automated remediation Incident dashboard RCA documentation Deliverables:

- Architecture Diagram
- Automation Scripts
- Incident Response Plan
- Predictive Model Report

Learning Outcomes

After completion, learners can:

- Implement AIOps architecture
- Reduce alert noise
- Perform automated root cause analysis
- Build self-healing systems
- Integrate monitoring with ITSM
- Improve MTTR significantly





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