**Case Study: AIOps in DevOps**

**Answer:**

AIOps (Artificial Intelligence for IT Operations) enhances software deployment by automating monitoring, troubleshooting, and pipeline management. It uses machine learning to analyze large volumes of operational data and respond proactively.

**Example 1: Predictive Autoscaling**  
AIOps tools like AWS CloudWatch can predict traffic spikes and automatically adjust server resources, ensuring uptime during deployments without manual intervention.

**Example 2: Alert Prioritization**  
Instead of overwhelming DevOps teams with hundreds of logs, AIOps groups related events and highlights the most critical ones, reducing mean time to resolution (MTTR) and preventing downtime.