ModelOps Training and Certification Course

Curriculum 2 Days

Day - 1

- **Introduction to ModelOps**
  - What is ModelOps?
  - Why is it important?
  - Model Development Life Cycle
- **Machine Learning Basics**
  - Introduction to machine learning
  - Types of machine learning
  - Feature engineering
  - Model selection and evaluation
- **DevOps for ModelOps**
  - Introduction to DevOps
  - DevOps principles and practices
  - Git and version control
  - Continuous Integration and Continuous Deployment (CI/CD)
- **Containers and Orchestration for ModelOps**
  - Introduction to containers
  - Docker basics
  - Introduction to container orchestration
  - Kubernetes basics

Day - 2

- **Monitoring and Alerting for ModelOps**
  - Introduction to monitoring and alerting
  - Metrics and monitoring tools
  - Log aggregation and analysis
  - Alerting and notification
- **Scaling and Load Balancing for ModelOps**
  - Introduction to scaling and load balancing
  - Load balancing techniques
  - Autoscaling
  - Capacity planning and management
- **Security and Compliance for ModelOps**
  - Introduction to security and compliance
  - Threat modeling and risk assessment
  - Access control and authentication
  - Compliance frameworks (HIPAA, GDPR, etc.)
- **Case Studies and Best Practices**
  - Case studies of successful ModelOps implementations
  - Best practices for implementing ModelOps
  - Q&A and Wrap-up