=> AI Powered DevOps with AWS

-> 4.5 months
7 AM IST to 8:30
Mon - Thu

Linux -> Bash shell scripting -> AWS -> Terraform -> Ansible
-> Github -> Maven -> Docker , K8S , Jenkins (CI/CD) , sonarlisuse ,
projects

{ SDLC }

Writing + Building & Deploying
Code
{ Dev Team } { cloud
DevOps
Engine }

DevOps => Development + operations }

DevOps main aim is to establish collaboration between Development Team and Operation Team.

DevOps is a culture/process in IT industry to simplify application delivery process to the client with high quality.

Development Team Roles
=================
Requirement Gathering --> Requirement Analysis --> Design --> Development (Coding)

--> Unit Testing --> Code Integration --> Bug Fixing

DevOps Team
=========

1) Understand Infrastructure requirement
   Network
   Servers
   Storage
   Backup
   Security
....

2) Infrastructure Creation on Cloud(AWS) (Terraform)

3) Configuration Management (Ansible)

4) Work with Linux Machine(Servers)

5) Working with Source Code Repository (Git hub)

6) Working with Docker (Simplify app execution process)

7) Manage Containers with Kubernetes (Orchestration)

8) Automate Build and Deployment Process (Jenkins) CICD pipeline

9) Infrastructure and App monitoring

Skills required for a DevOps
====================
SDLC (Software Development Life Cycle)
(Waterfall model, Agile Model, Scrum framework)

Application Architecture (Front end , Backend , tech stack, database)

Linux OS (commands)
Shell Scripting
Cloud Computing (AWS)
DevOps Tools
  -Terraform
  - Ansible
  - Maven
  - Git and GitHub
  - Tomcat
  - Docker
  - K8S
  - Jenkins
  - Prometheus & Grafana
  - EFK/ELK (App Log monitoring)
  - SonarQube

Linux OS + Shell Scripting
AWS Cloud
DevOps Tools
Projects