

# Day 1: (Thu- 26<sup>th</sup> Decemeber)

- **Morning Session (3hrs):**

- SDLC Models (1.5hr)

- Use Case of DevOps and Basics and Tools of DevOps(1.5hr)

- **Afternoon Session (3hrs) :Environment Setup using DevOps Tools: (All 3)**

- 1. GIT

- 2. Linux

- 3. Build tools (Maven)

- 4. Jenkins (CI CD) - if required other CICD tools

- 5. Docker

- 6. Kubernetes

- 7. Terraform

- 8. AWS (Cloud Computing, Services : EC2 ,S3, IAM)- ***Account Creation Report***

## Day 2: (Fri 27<sup>th</sup> December)

- **Morning Session:** Concepts of Cloud Computing and Basic AWS Services
- DevOps Services using AWS Cloud
- **Afternoon Session:** GitHub integration with Jenkins (CI CD)

## Day-3: (Sat 28<sup>th</sup> December)

- **Morning Session:** Concepts of Containers and their importance - Docker
- **Afternoon Session:** Docker Setup and Integration

## Day-4: (Sun 29<sup>th</sup> December)

- **Morning Session:** Deploying WebApp into AWS (levels)
  - Manual, Automated, Docker container
- **Afternoon Session :**Integration of Kubernetes and Terraform

# Day-5:(Mon 30<sup>th</sup> December)

- **Morning Session:**

- Concepts of MLFlow, MLOps

- Concepts of Terraform, Kubernetes

- **Afternoon Session: :**

- Fundamental Concepts of DevSecOps

- Future Trends

# Pre-requisites

- Stable internet
- Must & Should needed Laptop
- QR code (resources)
- Github Link (Commands)