

## **DevOps Fellowship – Report**

**Week: 2**

**Date: 06-09-2025**

### **Work Done / Tasks Completed**

- Studied advanced Git features:
  - Use branches for features and fixes
  - Rebase to clean history
  - Cherry-pick specific commits
  - Stash work temporarily
  - Git hooks for automation
  - Signed commits for security
- Practiced shell scripting and automation:
  - Loops (for, while)
  - Conditionals (if, case)
  - Functions for reusable code
  - Switch/case for branching logic
  - Shared memory usage with shmget() and shmat()
- Learned cloud computing basics:
  - Cloud = using internet for computing services
  - Pay for what you use
  - Three models: IaaS, PaaS, SaaS
  - Public, Private, Hybrid clouds
  - Benefits: scalability, flexibility, cost savings