

Version Control Using GIT (2 Days)

By Dr. Vishwanath Rao

- **GIT** - Version Control Tool – GIT Git Repository
 - Creating a Git Repository
 - Git Workflow
 - Tracking File Changes
 - Files or directory add to stage * Reset from stage
 - Ignoring Files in Git
 - Commit to Repository
 - Reverting to Earlier Commits * Deleting Files in Git
- **GitHub – Cloud Repository**
 - Creating a Repository in GitHub
 - Creating a Repository in GitHub Using SSH
 - Pulling Commits from GitHub
 - Collaborating between Local and Remote Repository * Push local Repository to GitHub or remote Repository * Merging File Changes in Git
 - Issue Tracking in GitHub
- **Getting Started**
 - Getting Started With BitBucket
 - Creating an Account
 - Configuring Two-step Verification
 - Creating a Repository
 - Creating a Snippet
 - Using the BitBucket User Interface
- **Basic Commands Overview**
 - Starting with a Fresh Project (git init)
 - Adding Git to an Existing Project (git init)
 - Starting on GitHub by Joining an Existing Project (git clone)

- Basic Git Workflow (add, commit, pull & push)
- Tracked Files
- Editing Files
- Recursive Add
- Backing Out Changes
- Renaming and Moving Files
- Deleting Files
- History
- Git Alias
- Ignoring Unwanted Files and Folders
- Cleanup and Back to Origin (GitHub)
- Git Basics Resources

- Cloning GIT

- Overview on Visual Merge and PF Merge

- **BRANCHING AND MERGING**
 - Branching Basics
 - Happy Path / Fast Forward Merges
 - Happy Path / Disable Fast Forward Merges
 - Automatic Merges
 - Conflicting Merges and Resolution
 - Section Cleanup and Push back to GitHub

- **REBASE**
 - Simple Rebase Example
 - Setup for rebasing conflict
 - Abort a Rebase
 - Rebase Conflict and Resolution
 - Pull with Rebase (GitHub)
 - Section Cleanup and push to GitHub

- **STAGING**
 - Simple Stash Example
 - Stashing Untracked Files and Using Pop
 - Managing Multiple Stashes
 - Stashing into a Branch

- Section Cleanup and push to GitHub
- Stashing Section Resources