

GITHUB Training

Level - Intermediate



March 23, 2023

Cotocus Ltd.

Bangalore, India

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| Training Dates | TDB |
| Time | Days | 2 Days |
| Trainer Name | Rajesh Kumar  https://www.rajeshkumar.xyz/cv/ |

TrainAgenda

## Day 1

**Introduction to GitHub (1 hour)**

* What is GitHub?
* Why use GitHub?
* Basic concepts of GitHub
* GitHub workflow

**Working with GitHub Locally (3 hours)**

* Installing and configuring Git and GitHub Desktop
* Initializing a Git repository
* Adding and committing changes
* Viewing the commit history
* Reverting changes
* Branching and merging
* Using GitHub Actions
* Using GitHub API

**Working with GitHub Remotely (2 hours)**

* Creating a GitHub repository
* Cloning a GitHub repository
* Pushing and pulling changes
* Collaborating with others
* Forking and pull requests
* Setting up GitHub authentication

**Advanced GitHub Techniques (2 hours)**

* Resolving merge conflicts in GitHub
* GitHub rebase
* Stashing changes in GitHub
* Undoing changes in GitHub
* Using GitHub's advanced features like issue tracking, code review, and continuous integration

## Day 2

**GitHub Workflows (2 hours)**

* GitHub flow
* Using GitHub for agile software development
* Using GitHub for DevOps
* Choosing the right workflow for your team

**Best Practices for GitHub (2 hours)**

* Commit messages in GitHub
* Branch naming conventions in GitHub
* Code reviews in GitHub
* Using GitHub hooks
* Using GitHub aliases

**GitHub for Large Projects (2 hours)**

* Using Git submodules in GitHub
* Using Git subtree in GitHub
* Using Git LFS in GitHub
* Using GitHub with Continuous Integration

**Wrap-up (30 minutes)**

* Recap of the training
* Q&A session