

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

Revathi Apartments, Ameerpet, 1st Floor, Opposite Annapurna Block, Info

soft it solutions Software Training& Development 905968394,918254087

GIT HUB ACTIONS

Introduction to GitHub Actions

1. Overview of GitHub Actions
2. Key Concepts: Workflows, Jobs, and Actions
3. Benefits and Use Cases

Getting Started with GitHub Actions

1. Setting up GitHub Actions in a Repository
2. Understanding Workflow YAML Syntax
3. Triggering Workflows: Events and Schedules
4. Managing Secrets and Environment Variables

Building Workflows

1. Defining Jobs and Steps
2. Handling Dependencies and Conditionals
3. Using Matrices for Parallelism
4. Caching Dependencies and Artifacts

Customizing Actions

1. Creating Custom Actions
2. Implementing Actions in JavaScript and Docker
3. Publishing Actions to the GitHub Marketplace
4. Using Community Actions

Advanced Workflow Features

1. Reusable Workflows and Workflow Templates
2. Concurrency Control and Strategy
3. Dynamic Expressions and Contexts
4. GitHub Actions API

Continuous Integration (CI) Pipelines

1. Setting up CI for Different Project Types
2. Running Tests, Linters, and Code Quality Checks
3. Building and Packaging Applications
4. Integrating Notifications and Status Checks

Continuous Deployment (CD) Pipelines

1. Deployment Strategies: Manual vs. Automated
2. Environment Management and Configuration
3. Deploying to Cloud Providers (AWS, Azure, GCP)
4. Rollbacks and Release Management

Security and Compliance

1. Managing Secrets and Access Permissions
2. Implementing Security Best Practices
3. Compliance Checks and Audit Trails
4. Vulnerability Scanning with CodeQL