Git & GitHub Open Source Contribution Bootcamp

Offline Workshop + PR Challenge

Objective

- Introduce students to Git & GitHub fundamentals
- Provide hands-on open source contribution experience
- Encourage real-world collaboration
- Create competitive motivation through PR-based rewards

Event Format: Offline (Hands-On)

Participants bring their own laptops
Lab systems will also be arranged
Stable internet required
Git pre-installed (instructions shared before event)

Problem we are facing : If we arrange labs, the number of students will get limited and also how teaching can be done in all labs simultaneously.

Event Structure

Phase 1: Theory + Live Demonstration (45–60 Minutes)

Topics Covered
- Introduction to Git & Version Control
- Git vs GitHub
- Repository, Clone, Commit, Push
- Branching & Merging
- Fork & Pull Request (PR)
- Merge Conflicts
- Open Source Contribution Workflow

Live Demonstration (Step-by-Step)

1. Create repository
2. Clone locally
3. Create branch
4. Make changes
5. Commit & push
6. Raise Pull Request
7. Merge PR

Everything demonstrated live so participants can follow along.

Phase 2: Guided Practice Session (Tutorial Lab – 60 Minutes)

Participants practice:

Cloning a repository
Creating branches
Making commits
Raising PRs

Mentors move around and help students individually.

Phase 3: Open Source Contribution Challenge (Main Activity)

Contribution Mode

We create:
- For 3rd year + participants(Willing) open source contribution on Github
- Separate beginner-friendly repository for 1st & 2nd year
- Repositories will contain:
- Pre-created issues (bug fixes, documentation, UI improvements, small features)
- Clearly labeled tasks (easy, medium, advanced)

Competition Rule

Participants must:
- Fork repository
- Solve issues
- Raise Pull Requests
- Only merged PRs will be counted.

Winner Criteria

Maximum number of merged PRs
One or Two winner from each year

Optional:

Fastest valid PR bonus
Cleanest code recognition

Rewards

Prizes
Certificate of Participation
Winner Certificate
Open Source Contributor Recognition

Technical Preparation (Task Before Event For Us)

To avoid chaos, prepare:
- ☐ Repositories with pre-added issues
- ☐ Clear contribution guidelines
- ☐ README with instructions
- ☐ Mentors assigned per batch
- ☐ Git installation guide shared 2–3 days prior

Task For Event Preparations:

Reach out to GitHub Education to request support for the workshop, such as digital certificates, event promotion, a guest speaker or mentor, and possible swag depending on the event size and availability. This can enhance the credibility of the event and provide a better experience for participants.

Reach out to GitHub Campus Experts from nearby universities or GitHub field experts to invite them as speakers or to seek guidance on how to plan and conduct the workshop effectively.

Pre-Event Preparation for Students

Send a pre-event checklist 2–3 days before:

Checklist:

- Install Git
- Create GitHub account
- Bring laptop + charger
- Join event WhatsApp/Discord group

This saves a lot of time on the event day.

Small Add-Ons That Increase Engagement

- Stickers for first PR
- QR code for resources
- Event WhatsApp group for post-event help