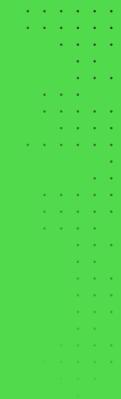
HackToberFest 2024





07/10/2024 Govt. Polytechnic Sonbhadra

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Hacktoberfest 2024

Topics we will discuss

- 1. The Fundamentals of Open Source Software
- 2. Effective Use of Git
- 3. How to Contribute to Open-Source
- 4. GitHub Student Developer Pack
- 5. Ask questions, resolve doubts, and share knowledge

Introduction To Open Source

>git:contribute

WBBBBbo. YBBBP^'

The Fundamentals of Open Source Software: Global and Indian Perspectives

Exploring the role of open-source software

Definition

Software where the source code is freely available for modification and distribution

Popular Open-Source Projects

Linux, Android, VLC, Chromium, Python, Wordpress, GIMP

Indian Open-Source Projects

ERPNext, Chatwoot, Calibre, BOSS, BharOS

Advantages of Open Source for Indian Developers

Developer

Global Recognition

Reputation and credibility.

Networking Opportunities

Global collaboration networks

Job Market Demand

Open-source experience

Fostering Entrepreneurial Mindsets:

Innovative solutions

Version Control, Repository Management, and Collaboration

>Effective Use of Git

Introduction to Git

A distributed version control system for tracking changes in source code.

1

Manage code versions

2

Collaboration with multiple contributors

3

Track changes, rollbacks, and history

Core Git Concepts

Repository

Storage area for your project's code

Commit

Snapshot of your changes

Branch

Parallel version of your repository

Merge

Combining branches

Pull

Fetching from remote repositories

Push

Sending changes to a remote repository

Git Workflow Example

Pull latest changes from the remote repository

Push the branch to the remote repositoru

Create a new feature branch

Open a pull request for review

Make changes, commit

Merge after approval

writing code, reporting issues, improving documentation, etc.

>How to Contribute to Open-Source

"Unlock Your Potential with GitHub Student Developer Pack

Tools and Resources to Enhance Your Development Skills"

Thanks for listening

Ask Your Questions

