

Believe in the collaborative power of open source

Hacktoberfest

online meet

October 2024

Speaker Details



Aditya D.



Saumili Dutta





Believe in the collaborative power of open source

**We're crafting a spooky and
unforgettable experience.**

October 2024

Today's Agenda

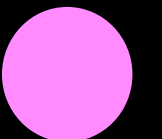
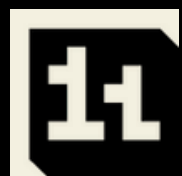
- Git
- GitHub
- Hacktoberfest
- Autumn of Code
- Time for QnA



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Open Source

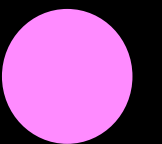
Open source refers to a type of software where the source code is made available to the public, allowing anyone to view, use, modify, and distribute it. Imagine you have a recipe for a cake, and instead of keeping it a secret, you share it with everyone so they can make it, improve it, or add their own twist. In the world of software, open source allows developers from all over the world to collaborate and improve the software collectively. This can lead to more innovative and secure programs, as many people can contribute their ideas and expertise. Popular examples of open source software include the Linux operating system and the web browser Firefox. Open source promotes transparency, community collaboration, and the free exchange of knowledge.



Git & GitHub

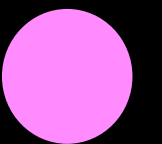
Git is a version control system that helps you manage changes to your files over time. Imagine you're writing a book, and you want to keep track of every change you make to it. Git allows you to do this by creating "snapshots" of your files at different points in time. This way, if you make a mistake or want to revert to an earlier version, you can easily do so. It's like having a supercharged undo button that works even if you close your computer or work on a different one.

GitHub is like a social media site for code, where you can store your projects online, collaborate with others, and share your work with the world. GitHub makes it easy for people to work together on projects, as it helps manage contributions from different people, track changes, and discuss improvements. In essence, Git is the tool that helps you track changes, and GitHub is the place where you can share and collaborate on those changes with others.



Why it is a necessity?

- Git is a distributed version control system that allows developers to track changes in their codebase over time
- It enables multiple developers to work collaboratively on a project without overwriting each other's work, as it manages different versions of the code and helps in merging changes efficiently
- GitHub enhances Git's functionality by offering a user-friendly interface, collaboration features like pull requests and issue tracking, and integration with other development tools
- Together, Git and GitHub facilitate seamless collaboration, improve code quality through peer reviews, and provide a centralized location for managing and sharing code, making them indispensable in both open-source and enterprise environments.

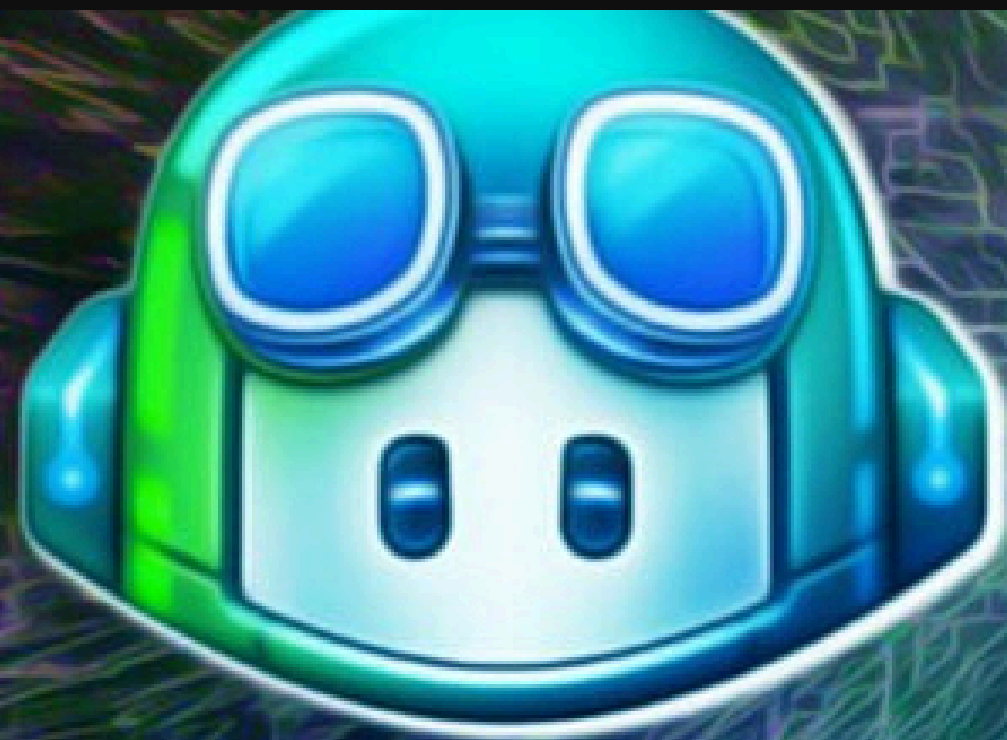
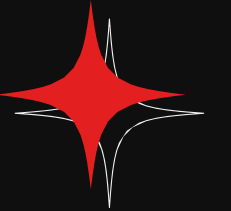


WHAT IS Github CO-PILOT?

Github copilot is an AI tool developed by Github in collaboration with OpenAI. It has many features like auto completion of codes which suggests code based on what you are typing. It can also generate documentations related to the code and adapt from the patterns it observe while you are using it. It supports multiple programming languages, it also suggests test cases if your code is based on testing. It is integrated with Github which means you can save your work on Github as well directly from the co-pilot. This can also be added to IDEs like Visual Studio code as an extension.



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GitHub Copilot

[MORE INFORMATION](#)

Git commands

- Git clone <repo link>
- Git add
- Git commit
- Git pull
- Git push
- Git merge
- Git checkout <br_name>
- Git log
- Git status
- Git rebase
- Git stash
- Git reset



A black and white photograph of a person's hands resting on their face. The hands are positioned on either side of the face, with fingers spread, suggesting a state of relaxation or contemplation. The lighting is soft, highlighting the texture of the skin and the fabric of the clothing. The text "One step at a time." is overlaid in a white, serif font across the center of the image.

One step at a time.

Demo time



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RULES AND REGULATIONS FOR CONTRIBUTIONS

1

Registration to the official Hacktoberfest page should be done after 26th september and before 31st october

2

Contributions after October 1st and before 31st will be considered

3

Project Maintaners must accept the pull request in order for it to be counted as a contribution

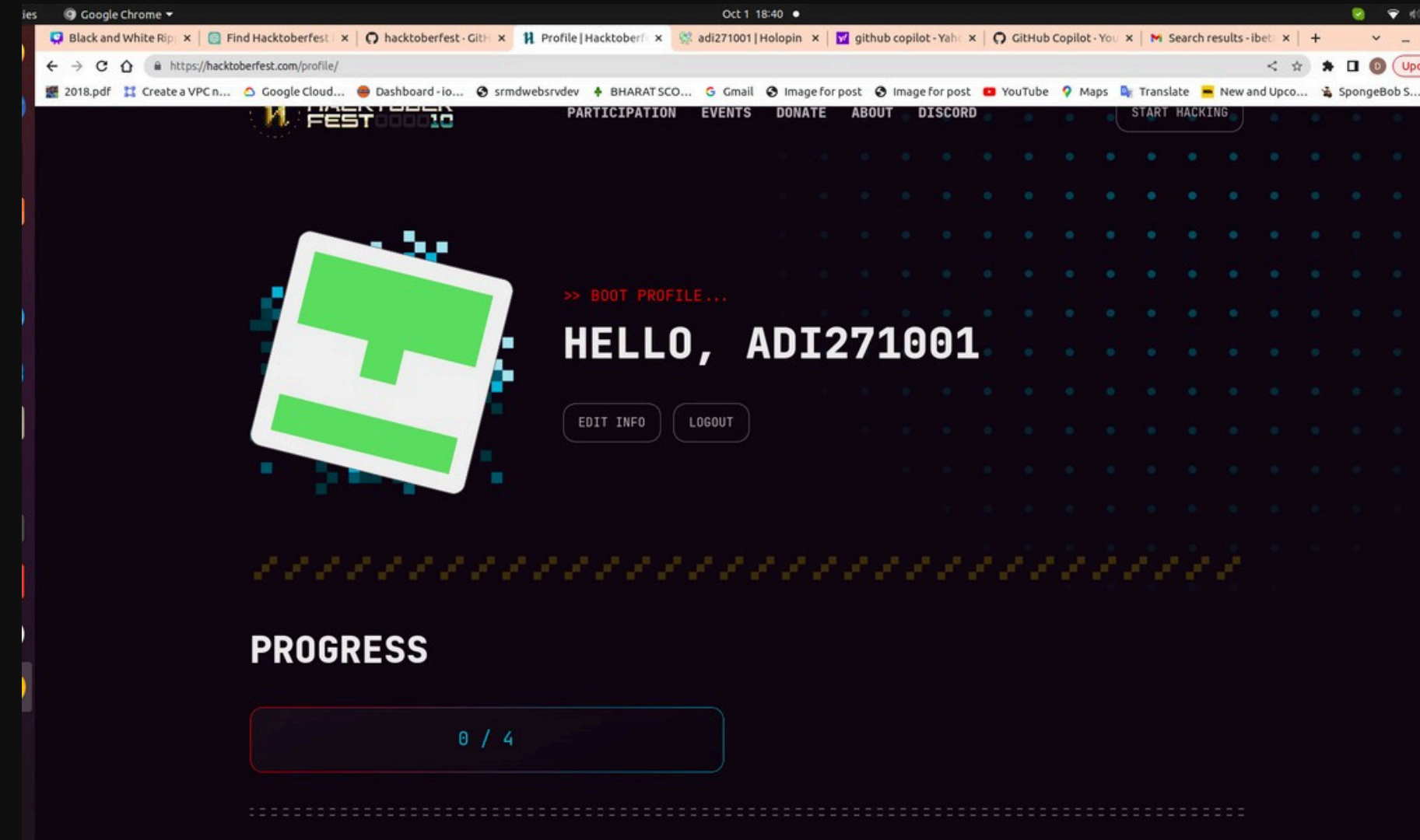
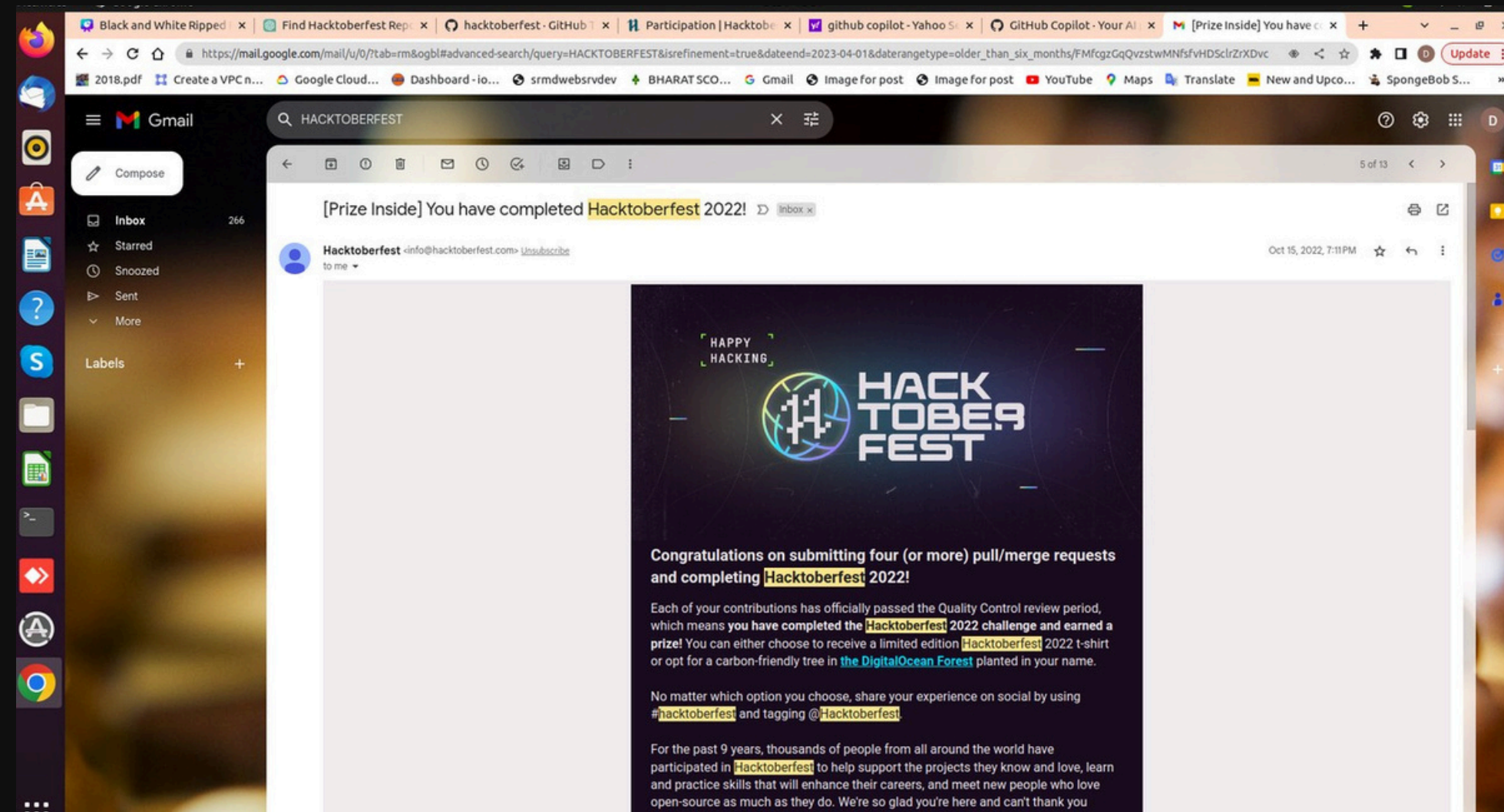
4

The PR is then on a waiting period of 7 days to be checked by the official team then counted as 1/4 the merged pr



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HOW WILL YOU KNOW IF PULL REQUEST IS ACCEPTED?



- A mail will be sent from Hacktoberfest's official email informing about the acceptance of pull request and the approval with a time gap of 7 days
- You can also check from your profile in Hacktoberfest official website



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HOW TO FIND REPOSITORIES TO CONTRIBUTE?

- There are lakhs of repositories for Hacktoberfest, which means there are many ways to search.
- **Github Search:** Easiest way is to login to Github and search Hacktoberfest all over Github. This will show all the repositories.
- **Discord Server:** The next method is joining the official channel of Hacktoberfest. Discord has separate channels for repositories which is participating in Hacktoberfest.

Make sure to read the contributing.md file before contributing in the particular repositories.

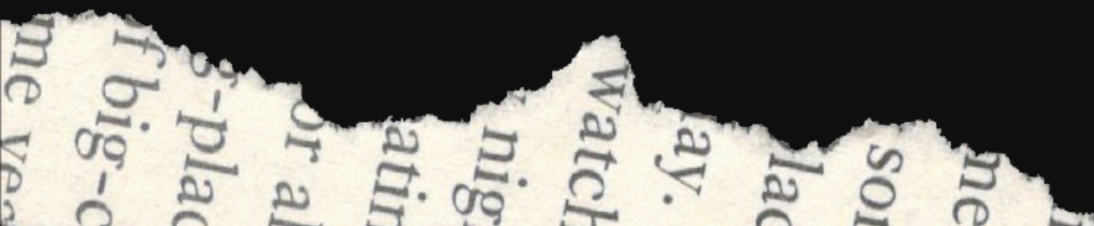


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HOW TO IDENTIFY DOMAINS?

- The domains can be identified by checking the tags in the particular repository. Github repositories also contain the tags which shows the programming language and technology i.e the domain being used in the repository. This makes it easier to choose repositories based on respective competencies.
- One more way is by reading the contributing.md or Readme.md of the repository. Sometimes if label is missing you can find out the domain by reading the Readme.md or contributing.md





ADVANTAGE



ADVANTAGES OF Hacktoberfest

1

Open source Contributions: By contributing to open source you will get a lot of experience on real life codebases and also to collaborate with other developers

2

Skill Enhancement: This also helps to enhance your skills or even develop new skills like git and github also domain based as well

3

Portfolio Development: Since the contributions reflect in Github it can be used to build your portfolio and can be used in resume's project section showcasing your experience

4

Problem Solving Ability: Challenging Problems can be solved as open source put forward many real life challenging problems which enhances the problem solving ability of participants



CAN THIS BE ADDED AS EXPERIENCE IN RESUME?

Yes this can be added in resume under the project section, you can include all the repositories you have worked on as a project and give the link of the Github repository.

The following are some of the reasons why this can be included in your resume:

It demonstrates the skills you possess and shows your expertise in the particular domain or project

It demonstrates teamwork and adaptability to any team of developers

New skills like git and Github will also be added to your resume which enhances it further

Employers might recognize your projects, appreciate the hard work and skill level you possess

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Demo time



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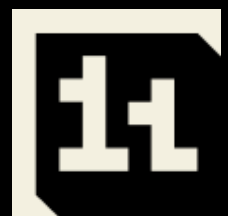
Hurray it's
Hacktoberfest!

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NEW

Autumn of Code





Don't forget!

Every eerie detail matters!

Questions?



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Thank You for your
time!

