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Probability and Statistics

Github Essay

Git is a system for controlling versions that keeps track of every change made to your code. This way, if something goes wrong, you can easily go back to a previous version. Keeping track of files and projects can be challenging, especially when you're working on projects for clients or in teams, so having a backup is really important.

With Git, each team member can work on their own branch without interfering with others, and then merge everything back into the main branch later. To get started, you turn your project into a Git repository by running "git init". Basic commands like "git commit" save your changes locally, and "git push" sends those changes to the main repository. When you need to combine your work with someone else’s, you use "git merge". If there are conflicting changes, you'll get a merge conflict that you need to resolve, sometimes by stashing changes or reverting to earlier versions, to avoid bigger problems later on.

Git is also handy for school projects. I started using Git in college for my projects and group work, and it made collaboration much easier because everyone could work independently and then combine their work easily and most of the time, seamlessly.

Overall, learning Git is crucial for anyone in computer science. While there are many advanced features, understanding the basics is a great foundation. Plus, many employers check candidates' GitHub accounts to see their projects, so mastering Git can really help with job opportunities.