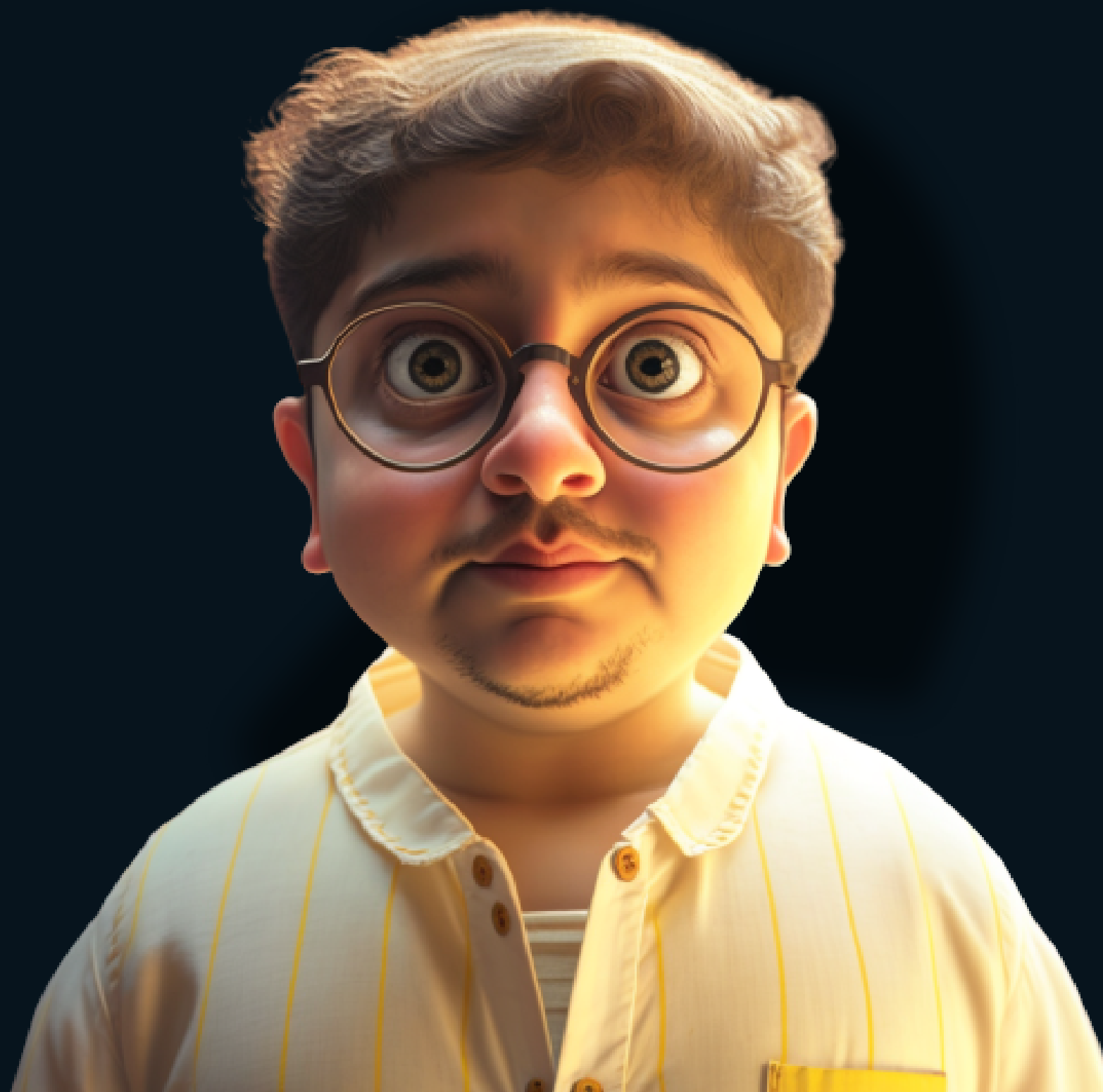
Beginner Guide to Git



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1. Introduction

- ➔ Git is a version control system, used to track versions of a file, and helps collaborate with developers and work in a team.

- ➔ It's decentralized in nature, helping the larger team to work together.

- ➔ Every developer has their own copy of the repository on their machine, they can locally work without the internet on their machine and commit their changes.

- ➔ Once their work is done they can publish their changes on a remote git repository and share them with other developers.

SWIPE →

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2. Prerequisite

- ➔ Install Git:
  https: //git-scm.com/downloads

- ➔ Create an Account on GitHub:
  https: //www.wikihow.com/Create-an-Account-on-GitHub

- ➔ Add Repository on Github:
  https: //docs.github.com/en/get-started/quickstart/create-a-repo

SWIPE →

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3. git init

- ➔ It initializes an empty repository as a git repository on your local machine.

- ➔ **As shown below:** We've created an empty folder - "first-repo" and run the "git init" command to mark it as a git repository.

```
$ git init

Reinitialized existing Git repository in E:/git-demo/first-repo/.git/
```

SWIPE →

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➔ Let's add an empty file - "script.js" in this local git folder - "first-repo".

SWIPE →

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4. git status

➔ git status will **show a list of all files along with their status**.Newly added files will be "untracked" by git initially.

➔ As shown below in the untracked file list we can see "script.js"

```
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        script.js

nothing added to commit but untracked files present (use "git
add" to track)
```

SWIPE →

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5. git add

➔ Out of all the untracked files, we can **pick which file to commit**. This is called staging.

➔ Use Below Command to stage a file: ***git add <file>***

➔ Below we've added "script.js" to the stage and then used git status to check its status.

```
$ git add script.js


$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   script.js
```

SWIPE →

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6. git commit

- Now, its time to commit the file to our local repository using

  git commit -m <commit-message>

- Below we've committed the "script.js" file with a commit message.

```
$ git commit -m "First File Committed"
[master (root-commit) fd7f726] First File
Committed
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 script.js


$ git status
On branch master
nothing to commit, working tree clean
```

SWIPE →

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- So far, we've committed the above file in our local repository only. Now it's time to push this file to remote repo.

- If you remember, I've asked you to create a repo on GitHub in the prerequisite section. Now it's time to use it. Please get the link to your remote branch ready.

SWIPE →

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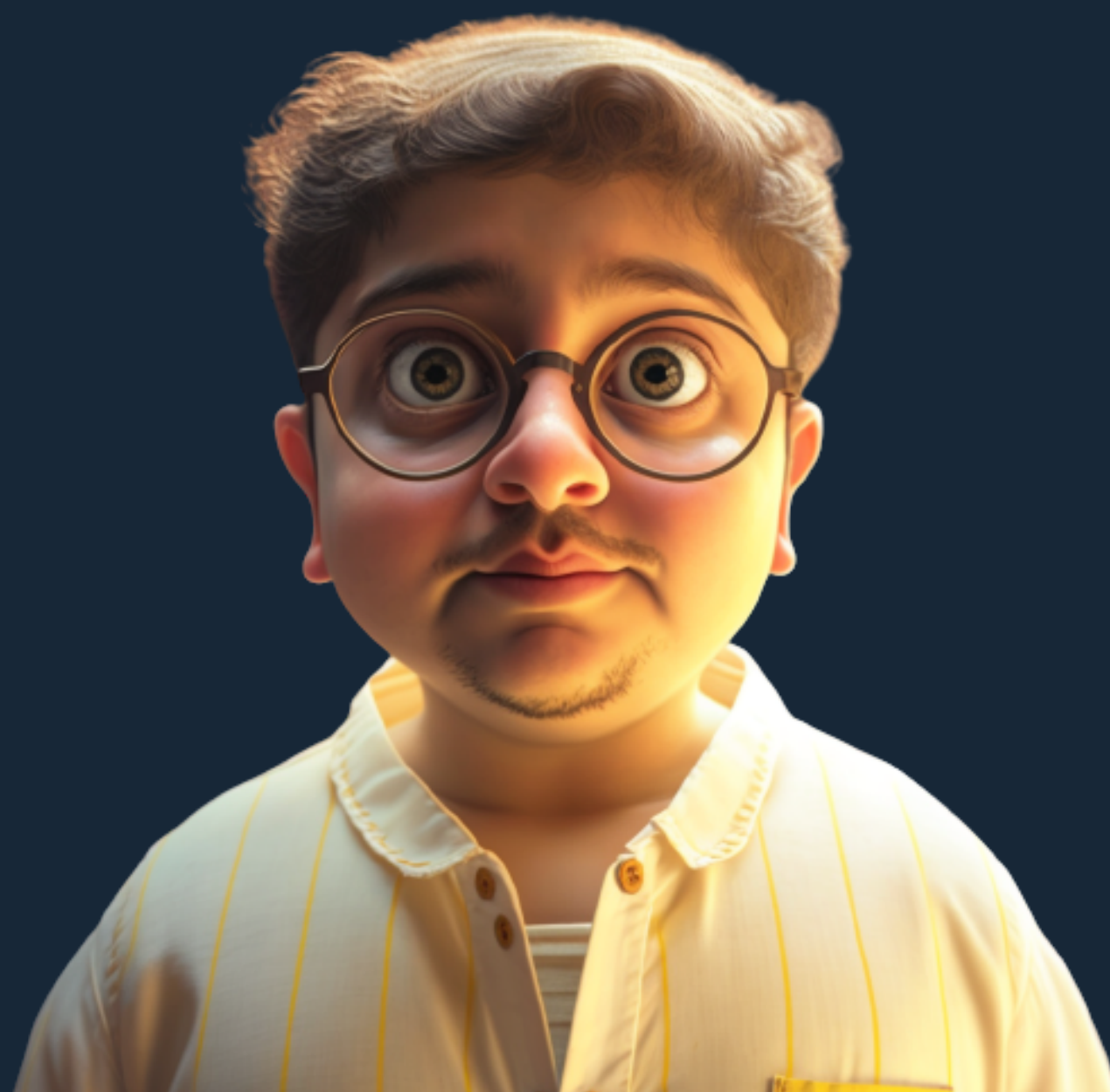

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