

Master Cheat Sheet — Chatbot Starter Project

Full Project Cheat Sheet

Chatbot Starter Project — Cheat Sheet

Project structure

```

```
chatbot-starter/
app.py
.env # secrets (local only; NOT in git)
.gitignore
Procfile # for Render
requirements.txt
runtime.txt # optional; pins Python for Render
static/ # your frontend files (index.html, js, css)
venv/ # local Python virtual environment
```
```

Python & virtualenv

```
```bash  
python3 -m venv venv # create venv (run once)
source venv/bin/activate # activate venv
deactivate # leave venv
pip install -r requirements.txt
python app.py # run locally (http://127.0.0.1:5000)
```
```

Updating code & redeploying (typical loop)

1. Edit files locally (e.g., app.py)
2. Test locally with `python app.py`
3. Stage & commit changes:

```
```bash  
git add .
git commit -m "feat: describe your change"
```
```

4. Push to GitHub:

```
```bash  
git push
```
```

5. Render auto-deploys on push (or use "Manual Deploy → Deploy latest commit")

If environment vars changed on Render → click **Manual Deploy** → **Clear build cache & deploy**.

Environment variables

- Local: in `.env` (ignored by git)
- Render: set via dashboard → Environment

Git basics

```
```bash  
git status
git add .
git commit -m "feat: your message"
```

git push

...

## Render deployment

- **Procfile**:

...

web: gunicorn app:app --bind 0.0.0.0:\$PORT --timeout 120

...

- **Manual Deploy** options:

- Deploy latest commit → after `git push`

- Clear build cache & deploy → if deps/env changed

## Google Sheets CSV sanity check

```bash

curl -sL "https://docs.google.com/spreadsheets/d/e/.../pub?output=csv" | head -n 10

...

Header row should be:

...

question_en,answer_en,question_es,answer_es

...

Secrets safety

```bash

printf "# secrets\n.env\n" >> .gitignore

git rm --cached .env

git commit -m "ignore .env"

git push

...

## SSH for GitHub

```bash

ssh-keygen -t ed25519 -C "you@example.com"

eval "\$(ssh-agent -s)"

ssh-add ~/.ssh/id_ed25519

cat ~/.ssh/id_ed25519.pub # Add to GitHub → Settings → SSH keys

...

Handy Linux commands

```bash

pwd # current dir

ls -l # list files

cd # change dir

rm # remove file

cp # copy

mv # move/rename

cat # print file

curl # fetch URL

...

## Nano shortcuts

- Save: Ctrl+O → Enter

- Exit: Ctrl+X

- Search: Ctrl+W

- Go to line: Ctrl+\_

# Daily Update & Deploy — Quick Reference

# Daily Update & Deploy — Quick Reference

## 1. Activate virtual environment

```
```bash
cd ~/chatbot/chatbot-starter
source venv/bin/activate
```
```

## 2. Run locally (optional test)

```
```bash
python app.py
# Visit http://127.0.0.1:5000 and /debug/csv to test
```
```

## 3. Stage & commit changes

```
```bash
git status
git add .
git commit -m "feat: describe your change"
```
```

## 4. Push to GitHub (Render auto-deploys)

```
```bash
git push
```
```

## 5. On Render

- **Deploy latest commit** after code changes
- **Clear build cache & deploy** if dependencies or environment variables changed

## 6. Environment Variables (if changed)

Render → Service → Environment → Add/Edit → Save → **Manual Deploy**

## 7. Local cleanup commands (optional)

```
```bash
deactivate # leave venv
rm -r directory # delete a directory
rm file # delete a file
```
```

## 8. Quick sanity checks

```
```bash
git log --oneline -- .env # should be empty if secrets ignored
curl -sL "$CSV_URL" | head -n 10 # preview CSV rows
```
```

# Common Linux Commands

| Action                | Command             | Example / Notes                   |
|-----------------------|---------------------|-----------------------------------|
| Print working dir     | pwd                 | Shows current directory           |
| List files            | ls -l               | Detailed list                     |
| Change dir            | cd path/to/dir      | cd .. goes up one dir             |
| Make directory        | mkdir dirname       | mkdir new_project                 |
| Remove empty dir      | rmdir dirname       | Fails if dir not empty            |
| Remove dir & contents | rm -r dirname       | rm -rf dirname (force, dangerous) |
| Remove file           | rm filename         | rm old.txt                        |
| Copy file             | cp src dst          | cp a.txt b.txt                    |
| Move/Rename file      | mv src dst          | mv old.txt new.txt                |
| View file contents    | cat filename        | cat readme.txt                    |
| Edit file (CLI)       | nano filename       | Ctrl+O save, Ctrl+X exit          |
| Download URL          | curl -O URL         | curl -O file.zip                  |
| Search text           | grep 'text' file    | grep 'main' app.py                |
| Find files            | find . -name '*.py' | Finds all Python files            |
| Show disk usage       | du -sh              | Shows size of current dir         |
| Show free space       | df -h               | Shows free space on drives        |