

Deploy

Before I let you wander off into your own world of music, here is a bonus section to teach you how to deploy this app for the world to see.

When it comes to web deployment, there are a ton of options to choose. [Streamlit Cloud](#) supports its own deployment service, but I personally find [Heroku](#) very easy to use in the past, so this is what I will use.

Create Necessary Files

Here are the files you need to deploy on Heroku:

- **requirements.txt**: a text file containing a list of all dependencies and their versions needed for the application
- **setup.sh**: Shell file for setting up the app on Heroku
- **Procfile**: The entry point that Heroku uses to run and start the app

Create these three files in the root directory of your app and copy-paste the following into your own.

requirements.txt

```
streamlit==1.0.0
pandas==1.3.3
plotly==5.3.1
scikit-learn==0.23.2
```

setup.sh

```
mkdir -p ~/.streamlit/  
echo "\n\n[server]\n\nheadless = true\n\nport = $PORT\n\nenableCORS = false\n\n" > ~/.streamlit/config.toml
```

Procfile

```
web: sh setup.sh && streamlit run app.py
```

Create Heroku Account and Install Heroku CLI

After gathering the necessary files and having the Github repo, we can now create a Heroku account. Navigate to Heroku's main website to create the account.

Cloud Application Platform | Heroku

Whether you're building a simple prototype or a business-critical product, Heroku's fully-managed platform gives you...

www.heroku.com

After creating an account, install the Heroku CLI:

The Heroku CLI

The Heroku Command Line Interface (CLI) makes it easy to create and manage your Heroku apps directly from the terminal...

devcenter.heroku.com

Deploy to Heroku

Now, we have all the tools for deploying to Heroku! The last step is to run the following commands to login to your account, build your app, and deploy.

```
heroku login  
heroku create [app_name]  
git push heroku main
```

Note: Remember to git add and commit before pushing to heroku main whenever you make changes to your code.

Congratulations! You should now see your app live and running on `[app_name].herokuapp.com` .

I have deployed a version of this app on Heroku, you can access it here: [TODO: add the link later]