mehmetimga / **dsci522-dockerfile-practice**

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.github/workflows	Add GitHub Actions workflow to buil...	yesterday
Dockerfile	Add Dockerfile to define the environ...	yesterday
LICENSE.md	Add LICENSE.md file with MIT Licen...	yesterday
Makefile	Add Makefile to automate conda loc...	yesterday
README.md	Add links to GitHub repository and ...	now
conda-linux-64.lock	Update conda-lock file for Linux pla...	yesterday
environment.yml	Rename conda environment to 'dsci...	yesterday

README License

This project creates a Docker image for data science project.

Links

- **GitHub Repository**: https://github.com/mehmetimga/dsci522-dockerfile-practice
- **DockerHub Image**: https://hub.docker.com/r/mehmetimga/dsci522-dockerfile-practice

What is Docker?

Docker is a tool that packages software into containers. A container is like a box that has everything your code needs to run. It works the same way on any computer.

What is in this project?

File	What it does
`environment.yml`	Lists the Python packages we need (pandas, scikit-learn)
`conda-linux-64.lock`	Locks the exact versions of all packages
`Dockerfile`	Instructions to build the Docker image
`Makefile`	Easy commands to build and test
`.github/workflows/docker-publish.yml`	Automatically builds and uploads the image

Packages included

- **Python 3.11** - The programming language
- **pandas 2.2.3** - For working with data tables
- **scikit-learn 1.6.0** - For machine learning

How to use

Build the Docker image

```
make build
```

Test the image

```
make test
```

Run all steps

```
make all
```

How it works

1. We start with a base image from Jupyter
2. We copy our package list into the image
3. We install the packages
4. The image is ready to use!

GitHub Actions

When you push changes to the Dockerfile, GitHub will:

1. Build the image automatically

2. Push it to DockerHub

You need to add these secrets to your GitHub repository:

- `DOCKER_USERNAME` - Your DockerHub username
- `DOCKER_PASSWORD` - Your DockerHub password

Author

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Languages

Makefile 76.1% **Dockerfile** 23.9%