Table of Contents

[*1.* *Git hub link of stroke detection project:* 1](#_Toc160876117)

[*2.* *Console output of building a package* 1](#_Toc160876118)

[*3.* *FastApi Application* 6](#_Toc160876119)

[*4.* *CI workflow* 7](#_Toc160876120)

[*5.* *CD workflow* 7](#_Toc160876121)

[*6.* *Dockerization* 8](#_Toc160876122)

## **Git hub link of stroke detection project:**

<https://github.com/pycsr/stroke_detection>

## **Console output of building a package**

(venv) (base) quicktech@psoni stroke\_detection % python -m build

\* Creating venv isolated environment...

\* Installing packages in isolated environment... (setuptools>=42, wheel)

\* Getting build dependencies for sdist...

/Users/quicktech/Documents/IISc\_AIMLOps\_Projects/Part-B\_MiniProject/stroke\_detection

running egg\_info

creating stroke\_detection\_model.egg-info

writing stroke\_detection\_model.egg-info/PKG-INFO

writing dependency\_links to stroke\_detection\_model.egg-info/dependency\_links.txt

writing requirements to stroke\_detection\_model.egg-info/requires.txt

writing top-level names to stroke\_detection\_model.egg-info/top\_level.txt

writing manifest file 'stroke\_detection\_model.egg-info/SOURCES.txt'

reading manifest file 'stroke\_detection\_model.egg-info/SOURCES.txt'

reading manifest template 'MANIFEST.in'

warning: no files found matching '\*.txt'

warning: no files found matching '\*.pkl'

warning: no previously-included files found matching '\*.log'

warning: no previously-included files found matching '\*.cfg'

warning: no previously-included files matching '\_\_pycache\_\_' found under directory '\*'

adding license file 'LICENSE'

writing manifest file 'stroke\_detection\_model.egg-info/SOURCES.txt'

\* Building sdist...

/Users/quicktech/Documents/IISc\_AIMLOps\_Projects/Part-B\_MiniProject/stroke\_detection

running sdist

running egg\_info

writing stroke\_detection\_model.egg-info/PKG-INFO

writing dependency\_links to stroke\_detection\_model.egg-info/dependency\_links.txt

writing requirements to stroke\_detection\_model.egg-info/requires.txt

writing top-level names to stroke\_detection\_model.egg-info/top\_level.txt

reading manifest file 'stroke\_detection\_model.egg-info/SOURCES.txt'

reading manifest template 'MANIFEST.in'

warning: no files found matching '\*.txt'

warning: no files found matching '\*.pkl'

warning: no previously-included files found matching '\*.log'

warning: no previously-included files found matching '\*.cfg'

warning: no previously-included files matching '\_\_pycache\_\_' found under directory '\*'

adding license file 'LICENSE'

writing manifest file 'stroke\_detection\_model.egg-info/SOURCES.txt'

running check

creating stroke\_detection\_model-0.0.1

creating stroke\_detection\_model-0.0.1/requirements

creating stroke\_detection\_model-0.0.1/stroke\_detection\_model

creating stroke\_detection\_model-0.0.1/stroke\_detection\_model/config

creating stroke\_detection\_model-0.0.1/stroke\_detection\_model/datasets

creating stroke\_detection\_model-0.0.1/stroke\_detection\_model/processing

creating stroke\_detection\_model-0.0.1/stroke\_detection\_model/trained\_models

creating stroke\_detection\_model-0.0.1/stroke\_detection\_model.egg-info

creating stroke\_detection\_model-0.0.1/tests

copying files to stroke\_detection\_model-0.0.1...

copying LICENSE -> stroke\_detection\_model-0.0.1

copying MANIFEST.in -> stroke\_detection\_model-0.0.1

copying README.md -> stroke\_detection\_model-0.0.1

copying pyproject.toml -> stroke\_detection\_model-0.0.1

copying setup.py -> stroke\_detection\_model-0.0.1

copying ./requirements/requirements.txt -> stroke\_detection\_model-0.0.1/./requirements

copying ./requirements/test\_requirements.txt -> stroke\_detection\_model-0.0.1/./requirements

copying ./stroke\_detection\_model/.DS\_Store -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model

copying ./stroke\_detection\_model/VERSION -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model

copying ./stroke\_detection\_model/\_\_init\_\_.py -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model

copying ./stroke\_detection\_model/config.yml -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model

copying ./stroke\_detection\_model/pipeline.py -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model

copying ./stroke\_detection\_model/predict.py -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model

copying ./stroke\_detection\_model/train\_pipeline.py -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model

copying ./stroke\_detection\_model/config/\_\_init\_\_.py -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model/config

copying ./stroke\_detection\_model/config/core.py -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model/config

copying ./stroke\_detection\_model/datasets/.DS\_Store -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model/datasets

copying ./stroke\_detection\_model/datasets/\_\_init\_\_.py -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model/datasets

copying ./stroke\_detection\_model/datasets/healthcare-dataset-stroke-data.csv -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model/datasets

copying ./stroke\_detection\_model/processing/\_\_init\_\_.py -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model/processing

copying ./stroke\_detection\_model/processing/data\_manager.py -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model/processing

copying ./stroke\_detection\_model/processing/features.py -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model/processing

copying ./stroke\_detection\_model/processing/validation.py -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model/processing

copying ./stroke\_detection\_model/trained\_models/\_\_init\_\_.py -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model/trained\_models

copying ./stroke\_detection\_model/trained\_models/stroke\_detection\_model\_output\_v0.0.1.pkl -> stroke\_detection\_model-0.0.1/./stroke\_detection\_model/trained\_models

copying stroke\_detection\_model/VERSION -> stroke\_detection\_model-0.0.1/stroke\_detection\_model

copying stroke\_detection\_model/\_\_init\_\_.py -> stroke\_detection\_model-0.0.1/stroke\_detection\_model

copying stroke\_detection\_model/config.yml -> stroke\_detection\_model-0.0.1/stroke\_detection\_model

copying stroke\_detection\_model/pipeline.py -> stroke\_detection\_model-0.0.1/stroke\_detection\_model

copying stroke\_detection\_model/predict.py -> stroke\_detection\_model-0.0.1/stroke\_detection\_model

copying stroke\_detection\_model/train\_pipeline.py -> stroke\_detection\_model-0.0.1/stroke\_detection\_model

copying stroke\_detection\_model.egg-info/PKG-INFO -> stroke\_detection\_model-0.0.1/stroke\_detection\_model.egg-info

copying stroke\_detection\_model.egg-info/SOURCES.txt -> stroke\_detection\_model-0.0.1/stroke\_detection\_model.egg-info

copying stroke\_detection\_model.egg-info/dependency\_links.txt -> stroke\_detection\_model-0.0.1/stroke\_detection\_model.egg-info

copying stroke\_detection\_model.egg-info/requires.txt -> stroke\_detection\_model-0.0.1/stroke\_detection\_model.egg-info

copying stroke\_detection\_model.egg-info/top\_level.txt -> stroke\_detection\_model-0.0.1/stroke\_detection\_model.egg-info

copying stroke\_detection\_model/config/\_\_init\_\_.py -> stroke\_detection\_model-0.0.1/stroke\_detection\_model/config

copying stroke\_detection\_model/config/core.py -> stroke\_detection\_model-0.0.1/stroke\_detection\_model/config

copying stroke\_detection\_model/datasets/\_\_init\_\_.py -> stroke\_detection\_model-0.0.1/stroke\_detection\_model/datasets

copying stroke\_detection\_model/datasets/healthcare-dataset-stroke-data.csv -> stroke\_detection\_model-0.0.1/stroke\_detection\_model/datasets

copying stroke\_detection\_model/processing/\_\_init\_\_.py -> stroke\_detection\_model-0.0.1/stroke\_detection\_model/processing

copying stroke\_detection\_model/processing/data\_manager.py -> stroke\_detection\_model-0.0.1/stroke\_detection\_model/processing

copying stroke\_detection\_model/processing/features.py -> stroke\_detection\_model-0.0.1/stroke\_detection\_model/processing

copying stroke\_detection\_model/processing/validation.py -> stroke\_detection\_model-0.0.1/stroke\_detection\_model/processing

copying stroke\_detection\_model/trained\_models/\_\_init\_\_.py -> stroke\_detection\_model-0.0.1/stroke\_detection\_model/trained\_models

copying stroke\_detection\_model/trained\_models/stroke\_detection\_model\_output\_v0.0.1.pkl -> stroke\_detection\_model-0.0.1/stroke\_detection\_model/trained\_models

copying tests/test\_features.py -> stroke\_detection\_model-0.0.1/tests

copying tests/test\_predictions.py -> stroke\_detection\_model-0.0.1/tests

copying stroke\_detection\_model.egg-info/SOURCES.txt -> stroke\_detection\_model-0.0.1/stroke\_detection\_model.egg-info

Writing stroke\_detection\_model-0.0.1/setup.cfg

Creating tar archive

removing 'stroke\_detection\_model-0.0.1' (and everything under it)

\* Building wheel from sdist

\* Creating venv isolated environment...

\* Installing packages in isolated environment... (setuptools>=42, wheel)

\* Getting build dependencies for wheel...

/private/var/folders/vs/6l92ypwj3sbc973853q9w9w00000gn/T/build-via-sdist-ca8j0naj/stroke\_detection\_model-0.0.1

running egg\_info

writing stroke\_detection\_model.egg-info/PKG-INFO

writing dependency\_links to stroke\_detection\_model.egg-info/dependency\_links.txt

writing requirements to stroke\_detection\_model.egg-info/requires.txt

writing top-level names to stroke\_detection\_model.egg-info/top\_level.txt

reading manifest file 'stroke\_detection\_model.egg-info/SOURCES.txt'

reading manifest template 'MANIFEST.in'

warning: no files found matching '\*.txt'

warning: no files found matching '\*.pkl'

warning: no previously-included files found matching '\*.log'

warning: no previously-included files matching '\_\_pycache\_\_' found under directory '\*'

warning: no previously-included files matching '\*.py[co]' found under directory '\*'

adding license file 'LICENSE'

writing manifest file 'stroke\_detection\_model.egg-info/SOURCES.txt'

\* Installing packages in isolated environment... (wheel)

\* Building wheel...

/private/var/folders/vs/6l92ypwj3sbc973853q9w9w00000gn/T/build-via-sdist-ca8j0naj/stroke\_detection\_model-0.0.1

running bdist\_wheel

running build

running build\_py

creating build

creating build/lib

creating build/lib/stroke\_detection\_model

copying stroke\_detection\_model/train\_pipeline.py -> build/lib/stroke\_detection\_model

copying stroke\_detection\_model/predict.py -> build/lib/stroke\_detection\_model

copying stroke\_detection\_model/\_\_init\_\_.py -> build/lib/stroke\_detection\_model

copying stroke\_detection\_model/pipeline.py -> build/lib/stroke\_detection\_model

creating build/lib/stroke\_detection\_model/config

copying stroke\_detection\_model/config/\_\_init\_\_.py -> build/lib/stroke\_detection\_model/config

copying stroke\_detection\_model/config/core.py -> build/lib/stroke\_detection\_model/config

creating build/lib/stroke\_detection\_model/processing

copying stroke\_detection\_model/processing/\_\_init\_\_.py -> build/lib/stroke\_detection\_model/processing

copying stroke\_detection\_model/processing/features.py -> build/lib/stroke\_detection\_model/processing

copying stroke\_detection\_model/processing/data\_manager.py -> build/lib/stroke\_detection\_model/processing

copying stroke\_detection\_model/processing/validation.py -> build/lib/stroke\_detection\_model/processing

creating build/lib/stroke\_detection\_model/datasets

copying stroke\_detection\_model/datasets/\_\_init\_\_.py -> build/lib/stroke\_detection\_model/datasets

creating build/lib/stroke\_detection\_model/trained\_models

copying stroke\_detection\_model/trained\_models/\_\_init\_\_.py -> build/lib/stroke\_detection\_model/trained\_models

running egg\_info

writing stroke\_detection\_model.egg-info/PKG-INFO

writing dependency\_links to stroke\_detection\_model.egg-info/dependency\_links.txt

writing requirements to stroke\_detection\_model.egg-info/requires.txt

writing top-level names to stroke\_detection\_model.egg-info/top\_level.txt

reading manifest file 'stroke\_detection\_model.egg-info/SOURCES.txt'

reading manifest template 'MANIFEST.in'

warning: no files found matching '\*.txt'

warning: no files found matching '\*.pkl'

warning: no previously-included files found matching '\*.log'

warning: no previously-included files matching '\_\_pycache\_\_' found under directory '\*'

warning: no previously-included files matching '\*.py[co]' found under directory '\*'

adding license file 'LICENSE'

writing manifest file 'stroke\_detection\_model.egg-info/SOURCES.txt'

copying stroke\_detection\_model/VERSION -> build/lib/stroke\_detection\_model

copying stroke\_detection\_model/config.yml -> build/lib/stroke\_detection\_model

copying stroke\_detection\_model/datasets/healthcare-dataset-stroke-data.csv -> build/lib/stroke\_detection\_model/datasets

copying stroke\_detection\_model/trained\_models/stroke\_detection\_model\_output\_v0.0.1.pkl -> build/lib/stroke\_detection\_model/trained\_models

installing to build/bdist.macosx-10.9-x86\_64/wheel

running install

running install\_lib

creating build/bdist.macosx-10.9-x86\_64

creating build/bdist.macosx-10.9-x86\_64/wheel

creating build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model

copying build/lib/stroke\_detection\_model/train\_pipeline.py -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model

creating build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model/config

copying build/lib/stroke\_detection\_model/config/\_\_init\_\_.py -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model/config

copying build/lib/stroke\_detection\_model/config/core.py -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model/config

creating build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model/processing

copying build/lib/stroke\_detection\_model/processing/\_\_init\_\_.py -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model/processing

copying build/lib/stroke\_detection\_model/processing/features.py -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model/processing

copying build/lib/stroke\_detection\_model/processing/data\_manager.py -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model/processing

copying build/lib/stroke\_detection\_model/processing/validation.py -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model/processing

creating build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model/datasets

copying build/lib/stroke\_detection\_model/datasets/\_\_init\_\_.py -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model/datasets

copying build/lib/stroke\_detection\_model/datasets/healthcare-dataset-stroke-data.csv -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model/datasets

copying build/lib/stroke\_detection\_model/predict.py -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model

copying build/lib/stroke\_detection\_model/\_\_init\_\_.py -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model

creating build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model/trained\_models

copying build/lib/stroke\_detection\_model/trained\_models/stroke\_detection\_model\_output\_v0.0.1.pkl -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model/trained\_models

copying build/lib/stroke\_detection\_model/trained\_models/\_\_init\_\_.py -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model/trained\_models

copying build/lib/stroke\_detection\_model/VERSION -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model

copying build/lib/stroke\_detection\_model/pipeline.py -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model

copying build/lib/stroke\_detection\_model/config.yml -> build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model

running install\_egg\_info

Copying stroke\_detection\_model.egg-info to build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model-0.0.1-py3.11.egg-info

running install\_scripts

creating build/bdist.macosx-10.9-x86\_64/wheel/stroke\_detection\_model-0.0.1.dist-info/WHEEL

creating '/Users/quicktech/Documents/IISc\_AIMLOps\_Projects/Part-B\_MiniProject/stroke\_detection/dist/.tmp-e7ycyhc8/stroke\_detection\_model-0.0.1-py3-none-any.whl' and adding 'build/bdist.macosx-10.9-x86\_64/wheel' to it

adding 'stroke\_detection\_model/VERSION'

adding 'stroke\_detection\_model/\_\_init\_\_.py'

adding 'stroke\_detection\_model/config.yml'

adding 'stroke\_detection\_model/pipeline.py'

adding 'stroke\_detection\_model/predict.py'

adding 'stroke\_detection\_model/train\_pipeline.py'

adding 'stroke\_detection\_model/config/\_\_init\_\_.py'

adding 'stroke\_detection\_model/config/core.py'

adding 'stroke\_detection\_model/datasets/\_\_init\_\_.py'

adding 'stroke\_detection\_model/datasets/healthcare-dataset-stroke-data.csv'

adding 'stroke\_detection\_model/processing/\_\_init\_\_.py'

adding 'stroke\_detection\_model/processing/data\_manager.py'

adding 'stroke\_detection\_model/processing/features.py'

adding 'stroke\_detection\_model/processing/validation.py'

adding 'stroke\_detection\_model/trained\_models/\_\_init\_\_.py'

adding 'stroke\_detection\_model/trained\_models/stroke\_detection\_model\_output\_v0.0.1.pkl'

adding 'stroke\_detection\_model-0.0.1.dist-info/LICENSE'

adding 'stroke\_detection\_model-0.0.1.dist-info/METADATA'

adding 'stroke\_detection\_model-0.0.1.dist-info/WHEEL'

adding 'stroke\_detection\_model-0.0.1.dist-info/top\_level.txt'

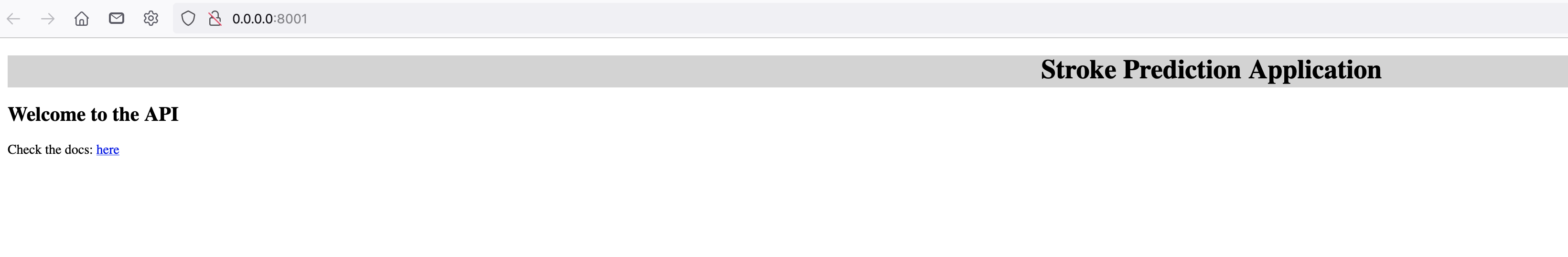
adding 'stroke\_detection\_model-0.0.1.dist-info/RECORD'

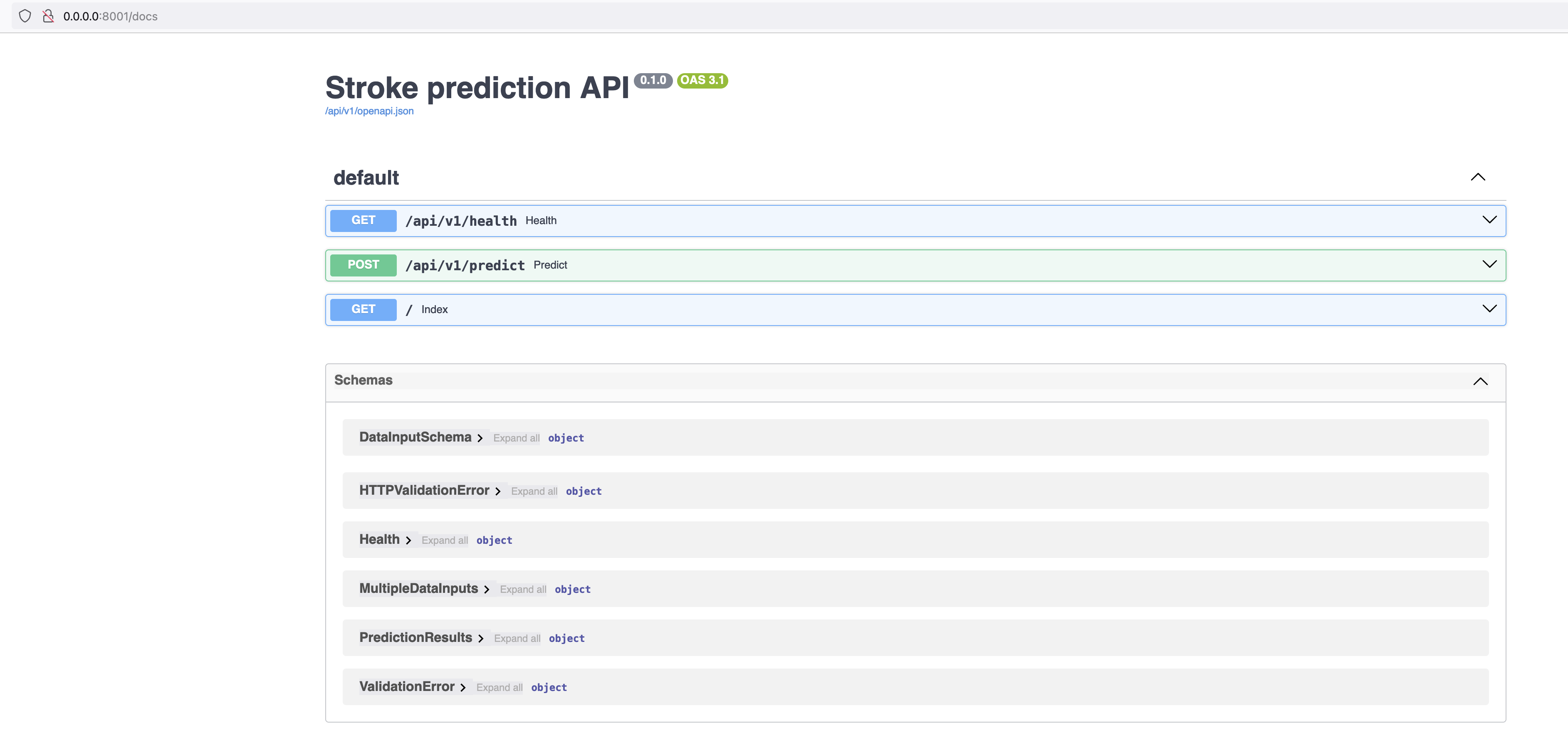
removing build/bdist.macosx-10.9-x86\_64/wheel

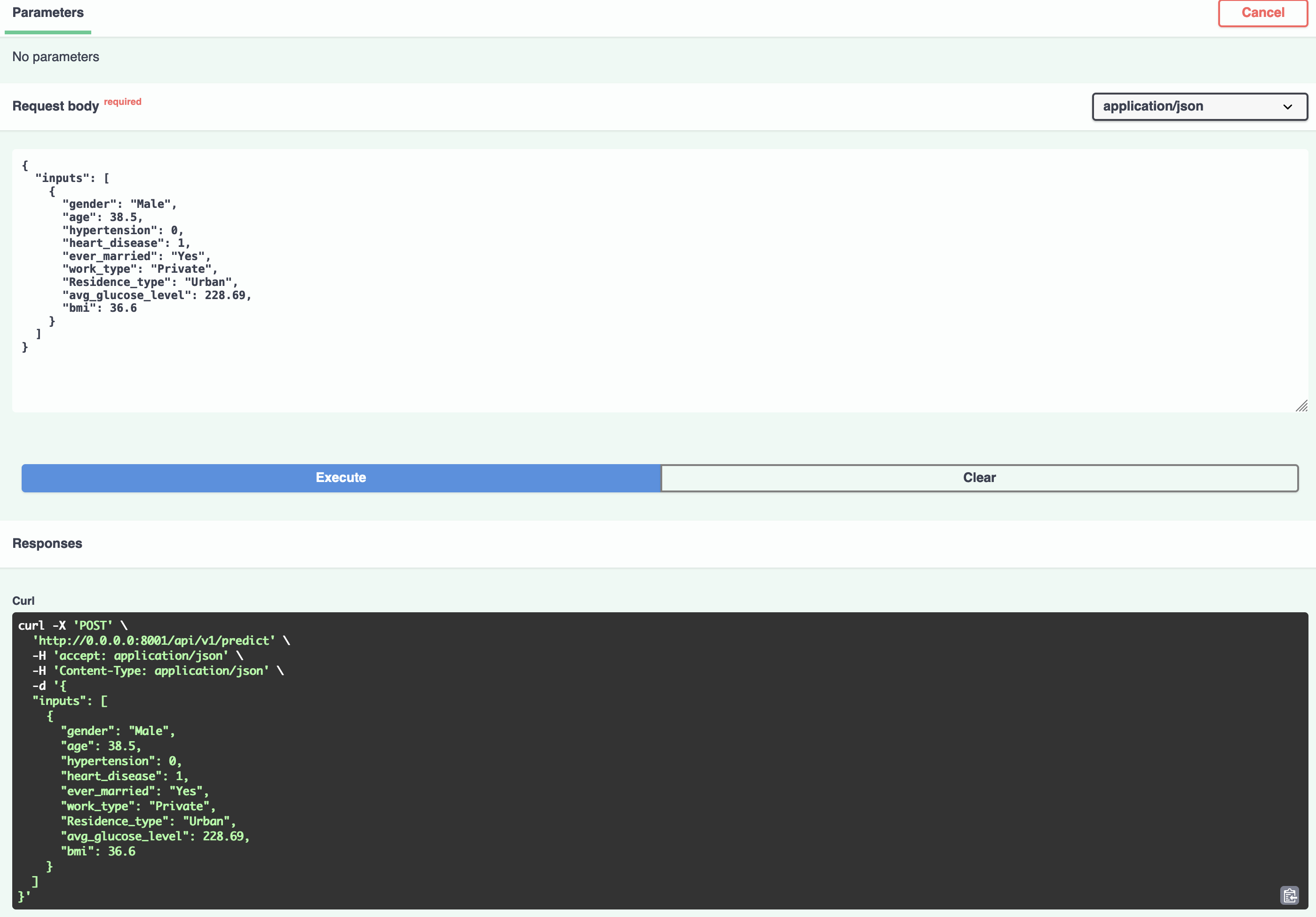
**Successfully built stroke\_detection\_model-0.0.1.tar.gz and stroke\_detection\_model-0.0.1-py3-no**

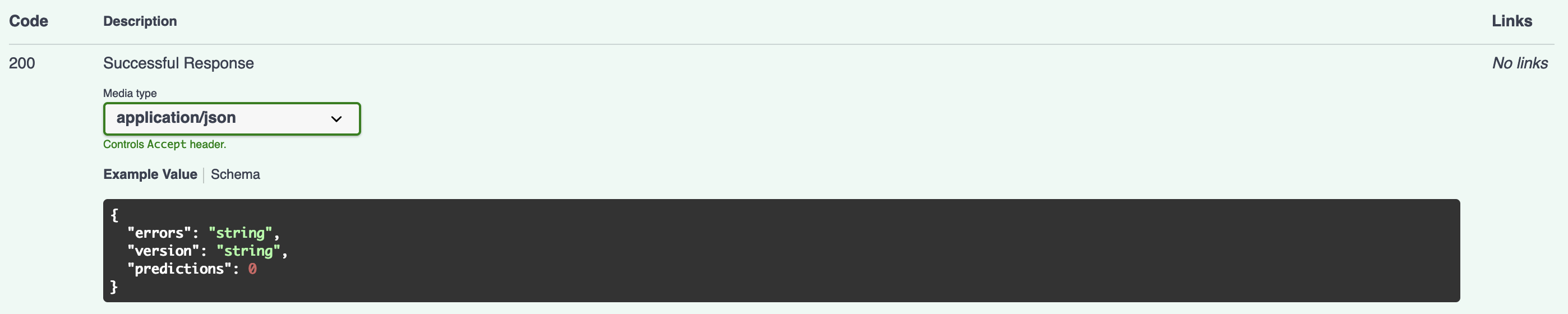
## **FastApi Application**



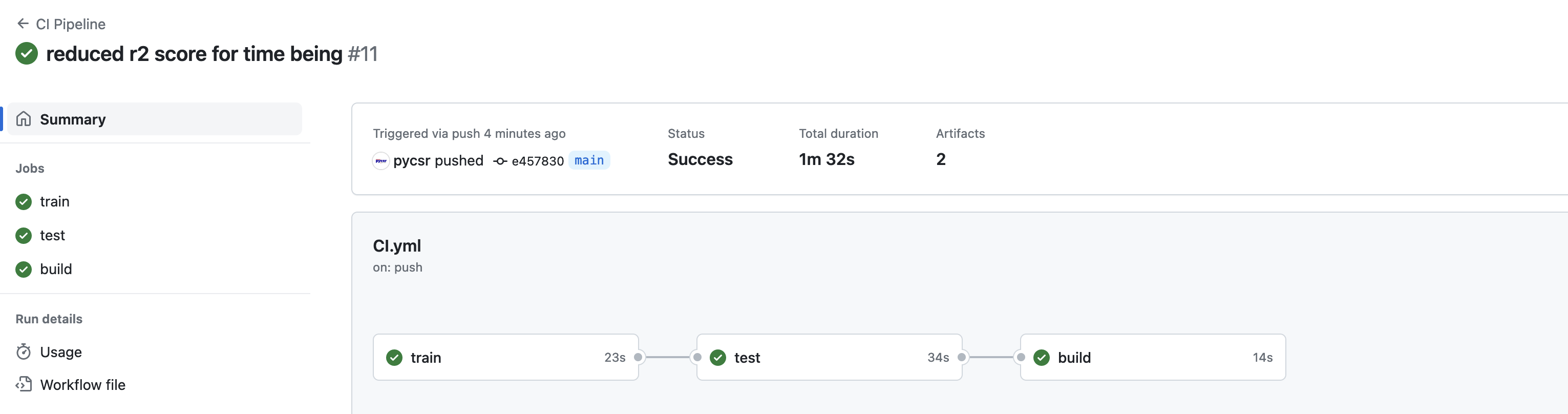
****

****

****

****

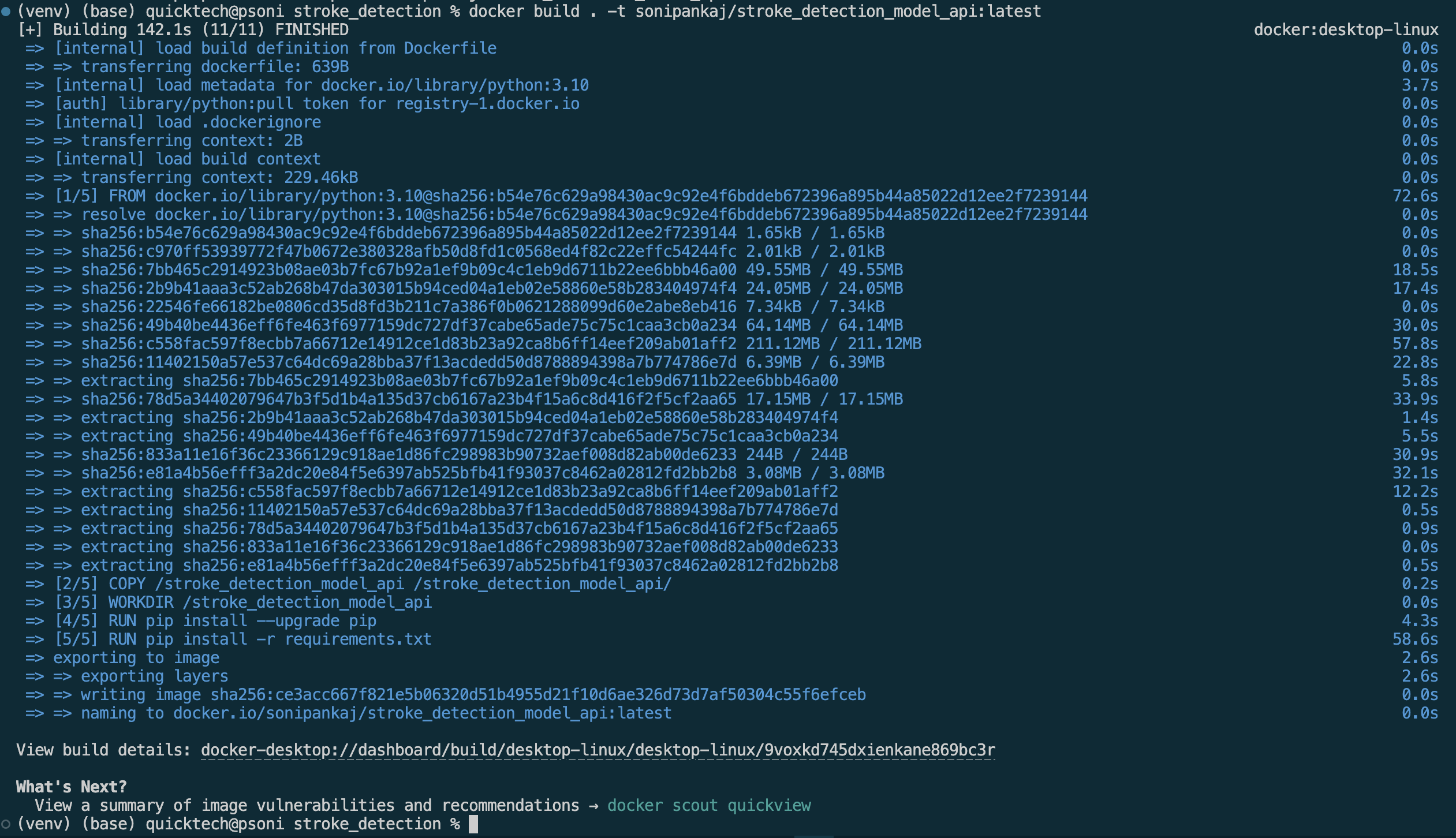
## **CI workflow**

****

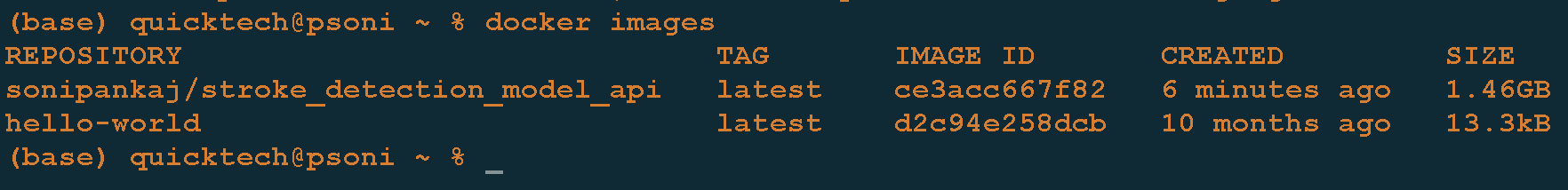
## **CD workflow**

TBD

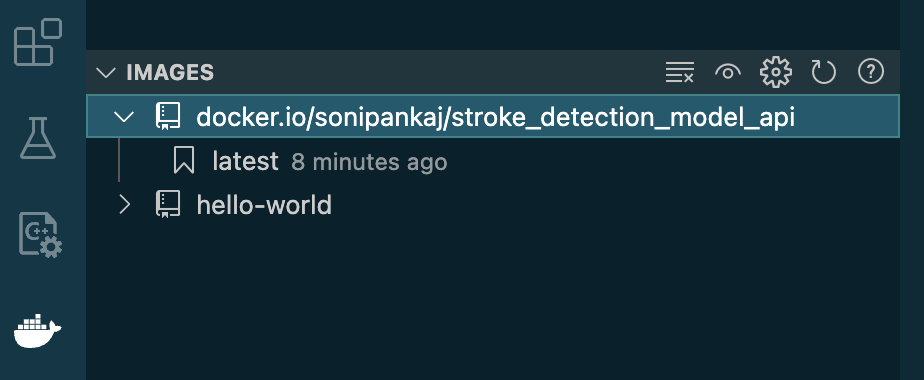
## **Dockerization**



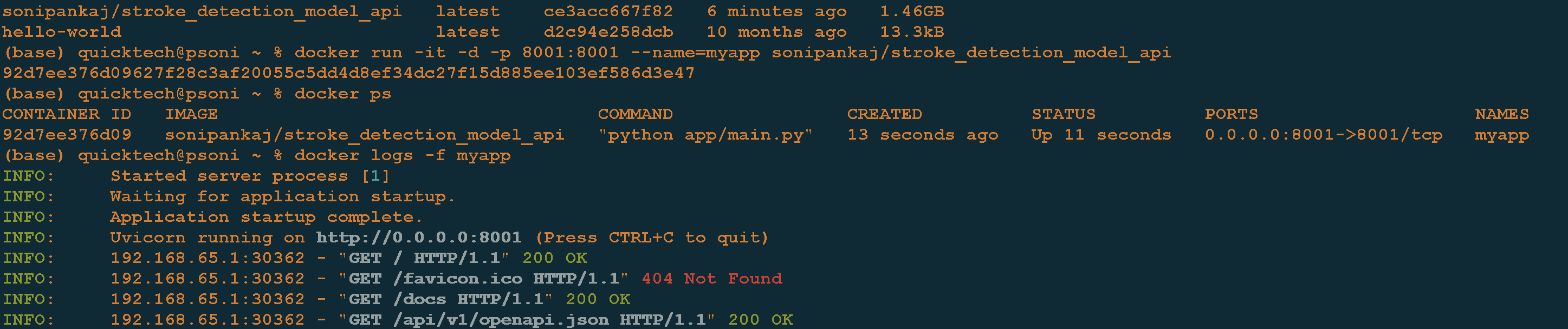
1. **Docker images**

****

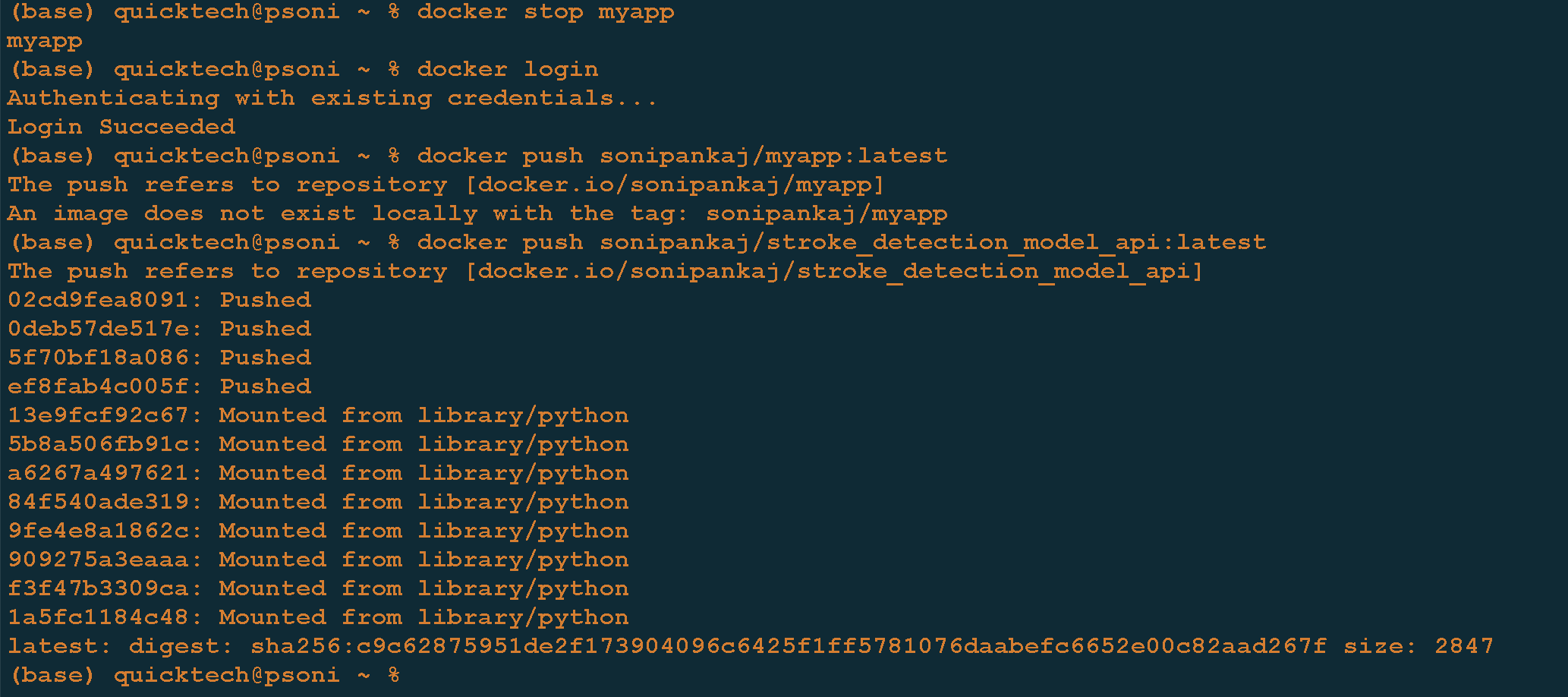
1. **In VS code**



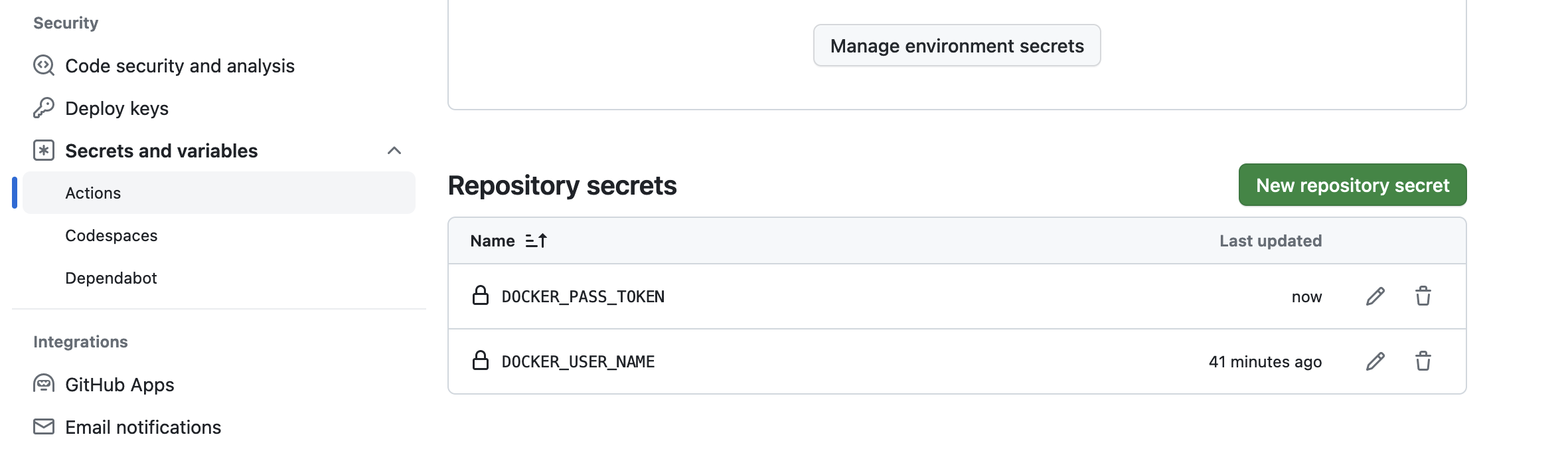
1. Running Docker app from CLI



1. Stop app and push to image to docker

****

1. Added Docker pass\_token and secret

****