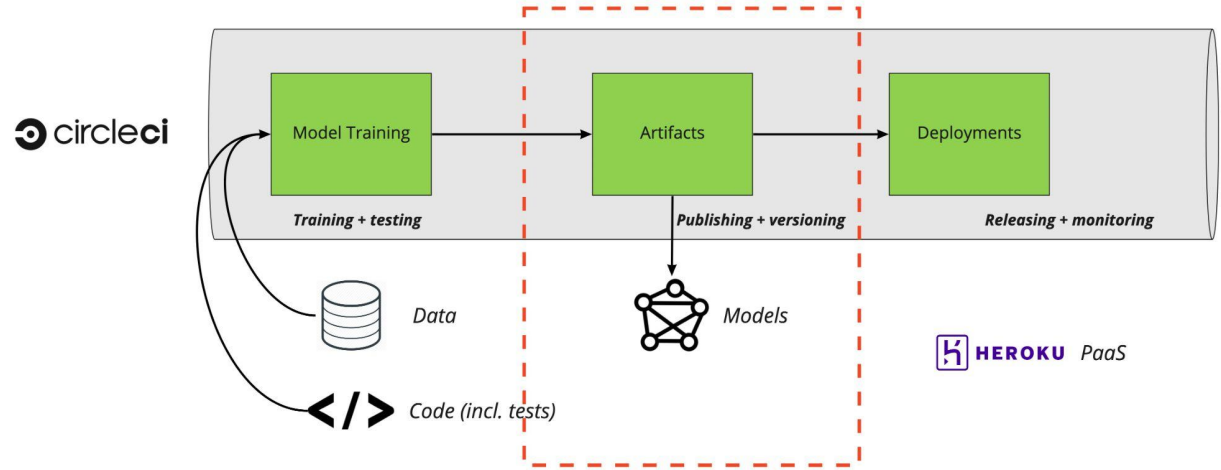




Understanding CI/CD Automation 2

Step 2: Automate the model building & publishing



Before (section 5)

```
tox -e train
```

```
py -m build
```

```
dist/tid-regression-model.tar.gz
```

```
dist/tid-regression-model.whl
```

Understanding Private Python Package Index Servers



Gemfury

PIP_EXTRA_INDEX_URL



master ▾

[deploying-machine-learning-models](#) / [section-07-ci-and-publishing](#) / [house-prices-api](#) / **requirements.txt**



ChristopherGS section 07 update (#742) ✖

Latest c

👤 1 contributor

10 lines (9 sloc) | 246 Bytes

```
1  --extra-index-url=${PIP_EXTRA_INDEX_URL}
2
3  uvicorn>=0.11.3,<0.12.0
4  fastapi>=0.64.0,<1.0.0
5  python-multipart>=0.0.5,<0.1.0
6  pydantic>=1.8.1,<1.9.0
7  typing_extensions>=3.7.4,<3.8.0
8  loguru>=0.5.3,<0.6.0
9  # fetched from gemfury
10 tid-regression-model==4.0.2
```

CircleCI Environment Variables Required

PIP_EXTRA_INDEX_URL
KAGGLE_KEY
KAGGLE_USERNAME
GEMFURY_PUSH_URL

The screenshot shows the CircleCI web interface. The browser address bar displays the URL: `app.circleci.com/settings/project/github/ChristopherGSTest/deploying-machine-learning-mod...`. The page title is "Project Settings" for the project "deploying-machine-learning-models". On the right, there is a button for "Organization Settings" with a close icon. The left sidebar contains a menu with "Overview", "Advanced", "Environment Variables" (which is highlighted), "SSH Keys", "API Permissions", and "Jira Integration". The main content area is titled "Environment Variables" and contains the following text: "Environment variables let you add sensitive data (e.g. API keys) to your jobs rather than placing them in the repository. The value of the variables cannot be read or edited in the app once they are set." Below this, it says "If you're looking to share environment variables across projects, try [Contexts](#)." At the bottom, there is a table with two columns: "Name" and "Value". To the right of the table are two buttons: "Add Environment Variable" (in blue) and "Import Variables" (in light gray).

Project Settings
deploying-machine-learning-models

Organization Settings

Overview
Advanced
Environment Variables
SSH Keys
API Permissions
Jira Integration

Environment Variables

Environment variables let you add sensitive data (e.g. API keys) to your jobs rather than placing them in the repository. The value of the variables cannot be read or edited in the app once they are set.

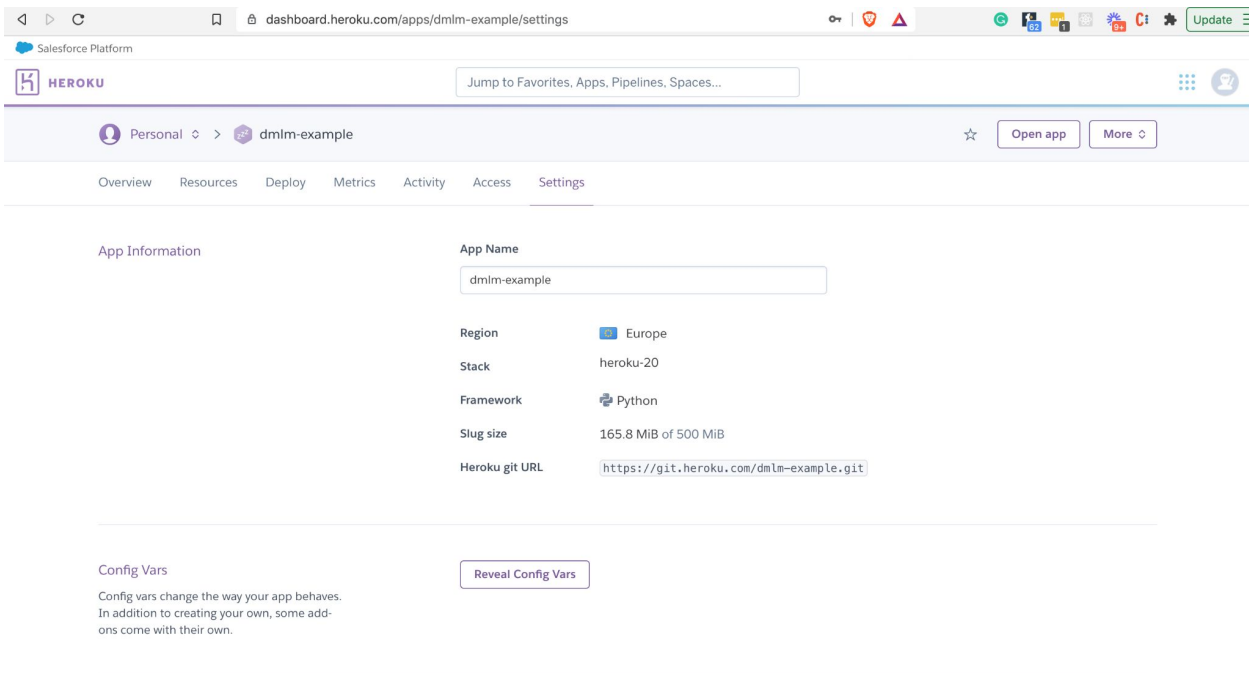
If you're looking to share environment variables across projects, try [Contexts](#).

Name	Value
------	-------

Add Environment Variable Import Variables

Heroku Environment Variables Required

PIP_EXTRA_INDEX_URL



The screenshot shows the Heroku dashboard for an application named 'dmim-example'. The browser address bar indicates the URL is 'dashboard.heroku.com/apps/dmim-example/settings'. The page header includes the Heroku logo and a search bar. The main navigation bar shows 'Personal' and 'dmim-example' with buttons for 'Open app' and 'More'. Below this is a tabbed interface with 'Overview', 'Resources', 'Deploy', 'Metrics', 'Activity', 'Access', and 'Settings' (which is selected). The 'App Information' section displays the following details:

App Information	
App Name	dmim-example
Region	Europe
Stack	heroku-20
Framework	Python
Slug size	165.8 MiB of 500 MiB
Heroku git URL	https://git.heroku.com/dmim-example.git

Below the app information, there is a 'Config Vars' section with a 'Reveal Config Vars' button. A note states: 'Config vars change the way your app behaves. In addition to creating your own, some add-ons come with their own.'