Data Intake Report

Name: Cloud and API Deployment
Report date: 15-08-2022
Internship Batch:LIMSUM11: 30
Version:1.0
Data intake by: Aliyu Nasir Maharaz
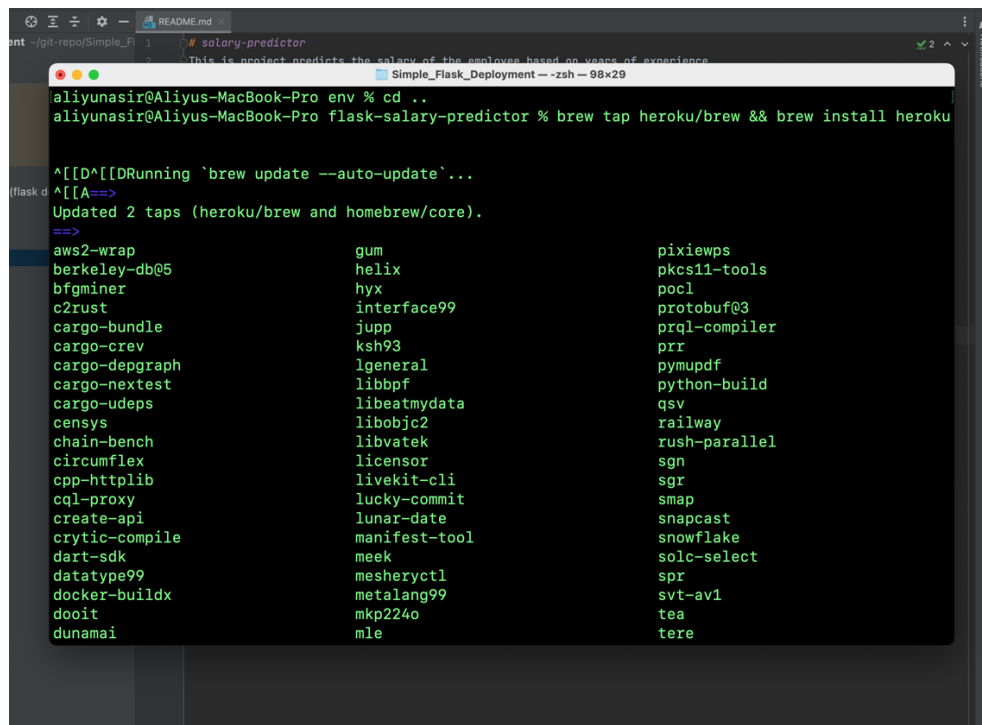Data intake reviewer:
Data storage location: https://github.com/MaharazAliyu/Simple_Flask_Deployment

Tabular data details:

Total number of observations	29
Total number of files	1
Total number of features	2
Base format of the file	.csv
Size of the data	4KB

Stage 1 Install Heroku CLI

Stage 2 Clone repository

```
(env) aliyunasir@Aliyus-MacBook-Pro flask-salary-predictor % cd ..
(env) aliyunasir@Aliyus-MacBook-Pro git-repo % git clone https://github.com/MaharazAliyu/Simple_Fl
ask_Deployment.git
Cloning into 'Simple_Flask_Deployment'...
remote: Enumerating objects: 27, done.
remote: Counting objects: 100% (27/27), done.
remote: Compressing objects: 100% (25/25), done.
remote: Total 27 (delta 7), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (27/27), 1.34 MiB | 1.27 MiB/s, done.
Resolving deltas: 100% (7/7), done.
(env) aliyunasir@Aliyus-MacBook-Pro git-repo % cd Simple_Flask_Deployment
```

Stage 3 Install Virtualenv and Activate

```
aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % pip3 install virtualenv
Requirement already satisfied: virtualenv in /Library/Frameworks/Python.framework/Versions/3.8/lib
/python3.8/site-packages (20.16.3)
Requirement already satisfied: distlib<1,>=0.3.5 in /Library/Frameworks/Python.framework/Versions/
3.8/lib/python3.8/site-packages (from virtualenv) (0.3.5)
Requirement already satisfied: filelock<4,>=3.4.1 in /Library/Frameworks/Python.framework/Versions
/3.8/lib/python3.8/site-packages (from virtualenv) (3.6.0)
Requirement already satisfied: platformdirs<3,>=2.4 in /Library/Frameworks/Python.framework/Versio
ns/3.8/lib/python3.8/site-packages (from virtualenv) (2.5.2)
aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % python3 -m virtualenv venv
created virtual environment CPython3.8.5.final.0-64 in 1142ms
  creator CPython3Posix(dest=/Users/aliyunasir/git-repo/Simple_Flask_Deployment/venv, clear=False,
 no_vcs_ignore=False, global=False)
  seeder FromAppData(download=False, pip=bundle, setuptools=bundle, wheel=bundle, via=copy, app_da
ta_dir=/Users/aliyunasir/Library/Application Support/virtualenv)
    added seed packages: pip==22.2.2, setuptools==63.4.1, wheel==0.37.1
  activators BashActivator,CShellActivator,FishActivator,NushellActivator,PowerShellActivator,Pyth
onActivator
aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % source venv/bin/activate
```

Stage 4 Install Requirement

```
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % pip install -r requirement.txt
Collecting numpy==1.23.2
  Using cached numpy-1.23.2-cp38-cp38-macosx_10_9_x86_64.whl (18.1 MB)
Collecting sklearn
  Using cached sklearn-0.0.tar.gz (1.1 kB)
  Preparing metadata (setup.py) ... done
Collecting requests
  Using cached requests-2.28.1-py3-none-any.whl (62 kB)
Collecting flask==2.2.2
  Downloading Flask-2.2.2-py3-none-any.whl (101 kB)
    ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 101.5/101.5 kB 2.0 MB/s eta 0:00:00
Collecting gunicorn==20.1.0
  Using cached gunicorn-20.1.0-py3-none-any.whl (79 kB)
Collecting itsdangerous>=2.0
  Using cached itsdangerous-2.1.2-py3-none-any.whl (15 kB)
Collecting importlib-metadata>=3.6.0
  Using cached importlib_metadata-4.12.0-py3-none-any.whl (21 kB)
Collecting Werkzeug>=2.2.2
  Downloading Werkzeug-2.2.2-py3-none-any.whl (232 kB)
    ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 232.7/232.7 kB 1.7 MB/s eta 0:00:00
Collecting Jinja2>=3.0
  Using cached Jinja2-3.1.2-py3-none-any.whl (133 kB)
Collecting click>=8.0
  Using cached click-8.1.3-py3-none-any.whl (96 kB)
Requirement already satisfied: setuptools>=3.0 in ./venv/lib/python3.8/site-packages (from gunicor
n==20.1.0->-r requirement.txt (line 5)) (63.4.1)
Collecting scikit-learn
  Using cached scikit_learn-1.1.2-cp38-cp38-macosx_10_9_x86_64.whl (8.6 MB)
Collecting urllib3<1.27,>=1.21.1
```

Stage 5 Create a procfile and push changes to Main Branch

```
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % touch Procfile
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % git init
Reinitialized existing Git repository in /Users/aliyunasir/git-repo/Simple_Flask_Deployment/.git/
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % git add .
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % git commit -m 'added Procfile'
[main 69ac03d] added Procfile
 9 files changed, 45 insertions(+), 3 deletions(-)
 create mode 100644 .idea/.gitignore
 create mode 100644 .idea/Simple_Flask_Deployment.iml
 create mode 100644 .idea/inspectionProfiles/profiles_settings.xml
 create mode 100644 .idea/misc.xml
 create mode 100644 .idea/modules.xml
 create mode 100644 .idea/vcs.xml
 create mode 100644 Procfile
 create mode 100644 __pycache__/app.cpython-38.pyc
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % git branch -M main
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % git remote add origin https://githu
b.com/MaharazAliyu/Simple_Flask_Deployment.git
error: remote origin already exists.
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % git push -u origin main
Enumerating objects: 16, done.
Counting objects: 100% (16/16), done.
Delta compression using up to 4 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (14/14), 2.48 KiB | 1.24 MiB/s, done.
Total 14 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/MaharazAliyu/Simple_Flask_Deployment.git
   aadb70b..69ac03d  main -> main
```

README.md   Procfile

```
1     web: gunicorn app:app
```

Stage 6 Login on Heroku and create app

```
Simple_Flask_Deployment — -zsh — 98×29
Branch 'main' set up to track remote branch 'main' from 'origin'.
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % heroku login
heroku: Press any key to open up the browser to login or q to exit:
Opening browser to https://cli-auth.heroku.com/auth/cli/browser/3137e814-2e09-41cc-a947-9cbf31f5a7
11?requestor=SFMyNTY.g2gDbQAAAAs5NC4yMDIuOTYuOW4GAAgRFZ6CAWIAAVGA.7HNoW0vFhEGcF68ExLxwLxyS-h0X-Ofh
OqlI_iipR7M
Logging in... done
Logged in as aliyunasir96@gmail.com
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % heroku create flask-app-deploy
Creating ● flask-app-deploy... !
 ▸    Name flask-app-deploy is already taken
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % heroku create flask-app-al
Creating ● flask-app-al... done
https://flask-app-al.herokuapp.com/ | https://git.heroku.com/flask-app-al.git
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % git push heroku main
Enumerating objects: 41, done.
Counting objects: 100% (41/41), done.
Delta compression using up to 4 threads
Compressing objects: 100% (28/28), done.
Writing objects: 100% (41/41), 1.34 MiB | 159.00 KiB/s, done.
Total 41 (delta 8), reused 26 (delta 7), pack-reused 0
remote: Compressing source files... done.
remote: Building source:
remote:
remote: -----> Building on the Heroku-20 stack
remote: -----> Determining which buildpack to use for this app
remote:  !     No default language could be detected for this app.
remote:                         HINT: This occurs when Heroku cannot detect the buildpack to use f
or this application automatically.
```

Stage 7 deploy app

```
Simple_Flask_Deployment — -zsh — 98×29
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % git push heroku main
Enumerating objects: 41, done.
Counting objects: 100% (41/41), done.
Delta compression using up to 4 threads
Compressing objects: 100% (28/28), done.
Writing objects: 100% (41/41), 1.34 MiB | 135.00 KiB/s, done.
Total 41 (delta 8), reused 26 (delta 7), pack-reused 0
remote: Compressing source files... done.
remote: Building source:
remote:
remote: -----> Building on the Heroku-20 stack
remote: -----> Using buildpack: heroku/python
remote: -----> App not compatible with buildpack: https://buildpack-registry.s3.amazonaws.com/buil
dpacks/heroku/python.tgz
remote:        More info: https://devcenter.heroku.com/articles/buildpacks#detection-failure
remote:
remote:  !     Push failed
remote:  !
remote:  ! ## Warning - The same version of this code has already been built: 69ac03d1c1111b6d4b87
44580c6ee666e4c9ea6e
remote:  !
remote:  ! We have detected that you have triggered a build from source code with version 69ac03d1
c1111b6d4b8744580c6ee666e4c9ea6e
remote:  ! at least twice. One common cause of this behavior is attempting to deploy code from a d
ifferent branch.
remote:  !
remote:  ! If you are developing on a branch and deploying via git you must run:
remote:  !
remote:  !     git push heroku <branchname>:main
```

a256=b215f0f3252c23597a6fda5179847941cdf1814e87dadd1bf5ca5261473dcb46

```
Simple_Flask_Deployment — -zsh — 98×29
```

```
remote:          Stored in directory: /tmp/pip-ephem-wheel-cache-6tyivwmy/wheels/9b/13/01/6f3a7fd6
41f90e1f6c8c7cded057f3394f451f340371c68f3d
remote:          Successfully built sklearn
remote:          Installing collected packages: urllib3, threadpoolctl, numpy, MarkupSafe, joblib, i
tsdangerous, idna, gunicorn, click, charset-normalizer, certifi, Werkzeug, scipy, requests, Jinja2
, scikit-learn, flask, sklearn
remote:          Successfully installed Jinja2-3.1.2 MarkupSafe-2.1.1 Werkzeug-2.2.2 certifi-2022.6.
15 charset-normalizer-2.1.0 click-8.1.3 flask-2.2.2 gunicorn-20.1.0 idna-3.3 itsdangerous-2.1.2 jo
blib-1.1.0 numpy-1.23.2 requests-2.28.1 scikit-learn-1.1.2 scipy-1.9.0 sklearn-0.0 threadpoolctl-3
.1.0 urllib3-1.26.11
remote: -----> Discovering process types
remote:          Procfile declares types -> web
remote:
remote: -----> Compressing...
remote:          Done: 120M
remote: -----> Launching...
remote:          Released v3
remote:          https://flask-app-al.herokuapp.com/ deployed to Heroku
remote:
remote: This app is using the Heroku-20 stack, however a newer stack is available.
remote: To upgrade to Heroku-22, see:
remote: https://devcenter.heroku.com/articles/upgrading-to-the-latest-stack
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/flask-app-al.git
 * [new branch]       main -> main
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment % heroku open
(venv) aliyunasir@Aliyus-MacBook-Pro Simple_Flask_Deployment %
```

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flask-app-al.herokuapp.com

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Predict