Name: Popa Larisa

Batch code: LISP01

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Submitted to: Data Glacier

Web App deployment

- 1. Make git repoitory and clone it locally.
- 2. Add application files.
- 3. Installing virtualenv package in order to create environment. I normally use anaconda environments, but I found it more difficult to deploy using anaconda environment, so I made Python environment. I installed pyton 3.8(3.10 had errors when installying numpy).

MINGW64:/c/Users/user/OneDrive/Desktop/Heroku/HerokuDeployment ser@DESKTOP-VJPPTD7 MINGW64 ~/OneDrive/Desktop/Heroku lerokuDeployment/ ser@DESKTOP-VJPPTD7 MINGW64 ~/OneDrive/Desktop/Heroku cd HerokuDeployment/ ser@DESKTOP-VJPPTD7 MINGW64 ~/OneDrive/Desktop/Heroku/HerokuDeployment (main) python -version Jnknown option: -e usage: C:\Users\user\AppData\Local\Programs\Python\Python38\python.exe [option]
... [-c cmd | -m mod | file | -] [arg] ...
[ry `python -h' for more information. ser@DESKTOP-VJPPTD7 MINGW64 ~/OneDrive/Desktop/Heroku/HerokuDeployment (main) python --version ython 3.8.8rcl ser@DESKTOP-VJPPTD7 MINGW64 ~/OneDrive/Desktop/Heroku/HerokuDeployment (main) pip install virtualenv ollecting virtualenv Using cached virtualenv-20.4.3-py2.py3-none-any.whl (7.2 MB) collecting six<2,>=1.9.0 Downloading six-1.15.0-py2.py3-none-any.whl (10 kB) Downloading six-1.15.0-py2.py3-none-any.wn1 (10 kB)
Collecting appdirs<2,>=1.4.3

Downloading appdirs-1.4.4-py2.py3-none-any.whl (9.6 kB)
Collecting distlib<1,>=0.3.1

Downloading distlib-0.3.1-py2.py3-none-any.whl (335 kB)
Collecting filelock<4,>=3.0.0

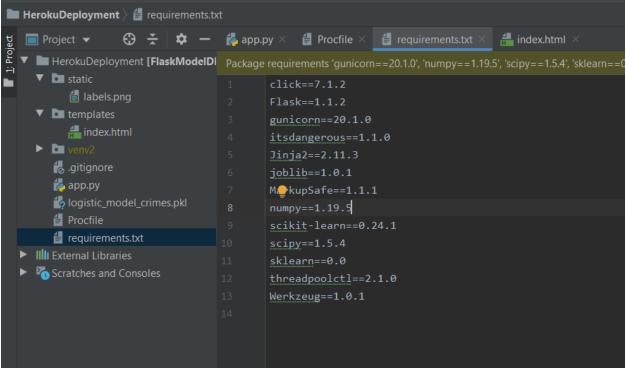
Downloading filelock-3.0.12-py3-none-any.whl (7.6 kB) Installing collected packages: six, appdirs, distlib, filelock, virtualenv Successfully installed appdirs-1.4.4 distlib-0.3.1 filelock-3.0.12 six-1.15.0 vi tualenv-20.4.3

2. Activate and install libraries in order to be able to run app locally. Sometimes I downgraded libraries such as numpy and sklearn due to other deployment errors.

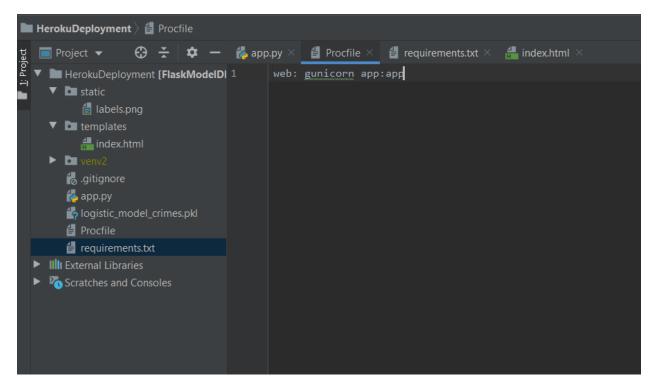
```
user@DESKTOP-VJPPTD7 MINGW64 ~/OneDrive/Desktop/Heroku/HerokuDeployment (main)
$ virtualenv venv2
created virtual environment CPython3.8.8.candidate.1-64 in 5040ms
    creator CPython3Windows(dest=C:\Users\user\OneDrive\Desktop\Heroku\Heroku\HerokuDeplo
yment\venv2, clear=False, no_vcs_ignore=False, global=False)
    seeder FromAppData(download=False, pip=bundle, setuptools=bundle, wheel=bundle
, via=copy, app_data_dir=C:\Users\user\AppData\Local\pypa\virtualenv)
    added seed packages: pip==21.0.1, setuptools==54.1.2, wheel==0.36.2
    activators BashActivator,BatchActivator,FishActivator,PowerShellActivator,Pyth
onActivator,XonshActivator

user@DESKTOP-VJPPTD7 MINGW64 ~/OneDrive/Desktop/Heroku/HerokuDeployment (main)
$ source venv2/Scripts/activate
(venv2)
    user@DESKTOP-VJPPTD7 MINGW64 ~/OneDrive/Desktop/Heroku/HerokuDeployment (main)
$ pip install flask
    Using cached Flask-1.1.2-py2.py3-none-any.whl (94 kB)
    collecting Jinja2>=2.10.1
    Using cached Jinja2>=2.10.1
    Using cached Jinja2>=2.10.1
    Using cached itsdangerous>=0.24
    Using cached click-7.1.2-py2.py3-none-any.whl (82 kB)
    collecting werkzeug>=0.15
    Using cached Jinja2>=2.11.3-py2.py3-none-any.whl (298 kB)
    collecting MarkupSafe>=0.23
    Downloading MarkupSafe>=0.23
    Downloading MarkupSafe>=0.23
    Downloading MarkupSafe>=0.23
    Downloading MarkupSafe>=0.23
    Downloading MarkupSafe>=0.23
    Downloading MarkupSafe>=0.24
    Flask-1.1.2 tisdangerous-1.1.0
    (venv2)
```

4. After installing all packages, I used the command <code>pip</code> freeze > requirements.txt in order to create the requirements file.



5. Then I created the Procfile



6. I installed heroku cli. After that I run

```
(venv2)
ser@DESKTOP-VJPPTD7 MINGW64 ~/OneDrive/Desktop/Heroku/HerokuDeployment (main)
$ heroku login
heroku: Press any key to open up the browser to login or q to exit: i
Opening browser to https://cli-auth.heroku.com/auth/cli/browser/3c9b491a-d7bf-4d
c1-b003-61d2e3160021?requestor=SFMyNTY.g2gDbQAAAA44NS4x0DYuMjI2LjE30W4GAMFlWnp4A
WIAAVGA.PZuu6j06eXmg76wQO13U_iNgvE1AN-piKOdWS]jtmRQ
heroku: Waiting for login...
Logging in... done
Logged in as larisapopa4@gmail.com
\LambdaC\LambdaCTerminate batch job (Y/N)? y
(venv2)
user@DESKTOP-VJPPTD7 MINGW64 ~/OneDrive/Desktop/Heroku/HerokuDeployment (main)
$ heroku create
Creating app... done, lit-island-42304
https://lit-island-42304.herokuapp.com/ | https://git.heroku.com/lit-island-4230
4.git
(venv2)
user@DESKTOP-VJPPTD7 MINGW64 ~/OneDrive/Desktop/Heroku/HerokuDeployment (main)
$ heroku rename predictarrest
Renaming predictcrimesarrest to predictarrest... done
nttps://predictarrest.herokuapp.com/ | https://git.heroku.com/predictarrest.git
```

git add.

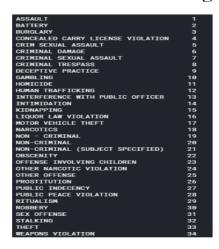
git commit -m

git push heroku main

7. App running



Here are the encoding that you should use:

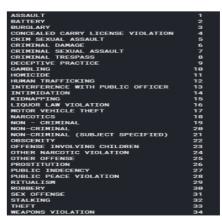


Predict arrest True or False according to the crime type

CrimeTye

 \leftarrow \rightarrow \mathbf{C} $\stackrel{ alpha}{ }$ predictarrest.herokuapp.com

Here are the encoding that you should use:



Predict arrest True or False according to the crime type

20 Predict

Here are the encoding that you should use:

```
ASSAULT 1
BATTERY 2
BURGLARY 2
GONCEALED CARRY LICENSE VIOLATION 4
CRIM SEXUAL ASSAULT 5
CRIMINAL DAMAGE 6
CRIMINAL SEXUAL ASSAULT 7
CRIMINAL SEXUAL ASSAULT 7
CRIMINAL TRESPASS 8
BUCCEPTIVE PRACTICE 8
GAMBLING 19
HOMENIT FOR SEXUAL SEXUAL 19
HOMENIT FOR SEXUAL 19
```

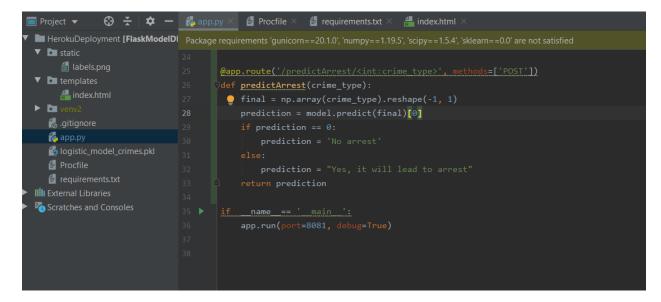
Predict arrest True or False according to the crime type

CrimeTye Predict

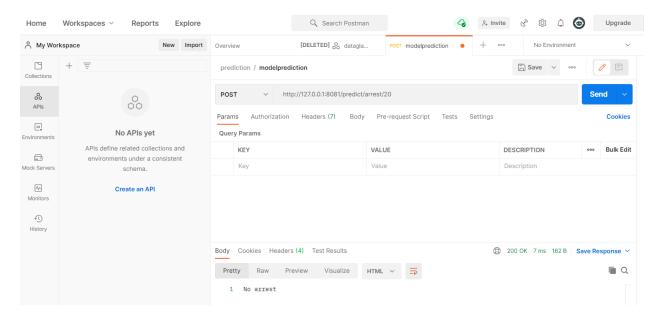
Prediction: No arrest

App deployment

Create new appi



Test locally with Postman



Deploy on heroku

Git add

Git commit

Git push heroku main

Test on heroku

