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Batch code: LISP01

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Submitted to: Data Glacier

Cloud and API deployment on Heroku

Step 1:

Train the ML model:

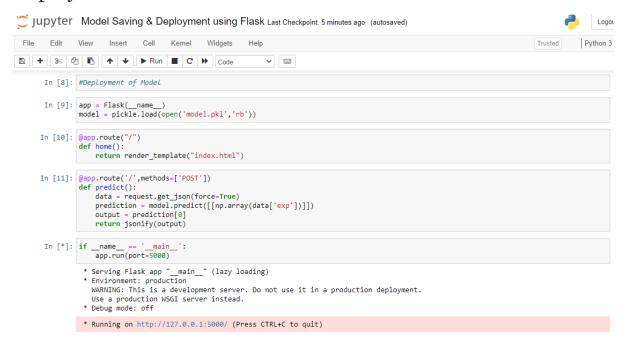
Predict the salary of an employee based on experience using Linear Regression Model.

Step 2:

Saving the trained model to the disk using the *pickle* library.

Step 3:

Deployment of Model



- > Created the instance of the *Flask()* and loaded the model.
- ➤ Bounded "/" with the method *predict()* in which predict method gets the data from the json passed by the requestor.
- > model.predict() method takes input from the json and converts it into 2D numpy array the results are stored into the variable named output.
- ➤ Return this variable after converting it into the json object using flasks *jsonify()* method.
- ➤ Run our server by following above code section and using port 5000.

Step 4:

Checking python app.py file in CMD

```
Microsoft Windows [Version 10.0.19041.867]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\HAZARIKA>cd anaconda3

C:\Users\HAZARIKA\anaconda3\cd Flask

C:\Users\HAZARIKA\anaconda3\Flask>python app.py

* Serving Flask app "app" (lazy loading)

* Environment: production

MARNING: This is a development server. Do not use it in a production deployment.

Use a production WSGI server instead.

* Debug mode: on

* Restarting with windowsapi reloader

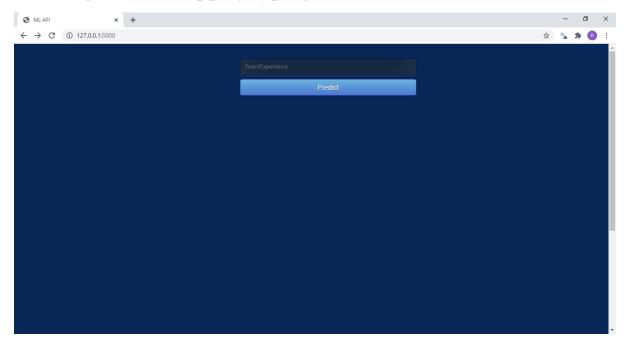
* Debugger is active!

* Debugger pIN: 209-256-176

* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

Step 5:

Creating the Web App by typing the URL in the browser



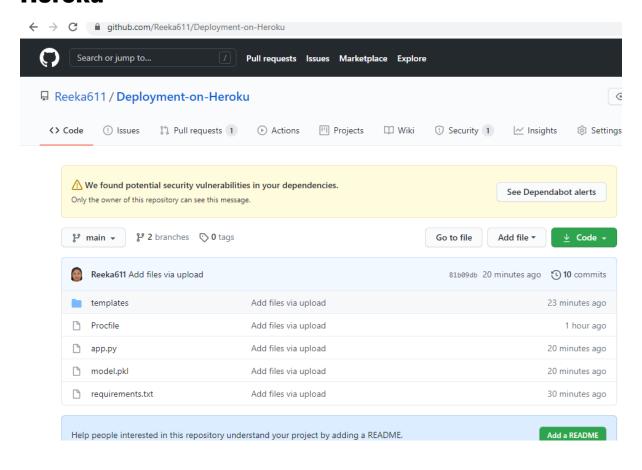
Step 6:

Create Procfile file which specifies the commands that are executed by a Heroku app on startup. web: gunicorn app:app.

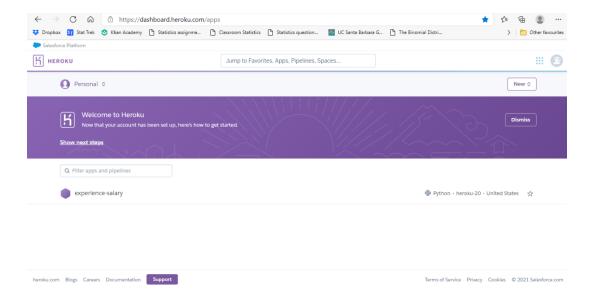
Running the command pip freeze > requirements.txt in CMD for creating requirement.txt file which will contain all of the dependencies for the flask app.

Step 7:

Create a repository in Github and Commit the code Link: https://github.com/Reeka611/Deployment-on-Heroku

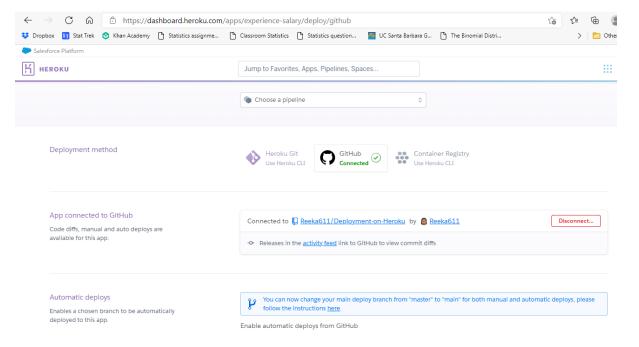


Step 8: Create an Account in Heroku and then create an app.



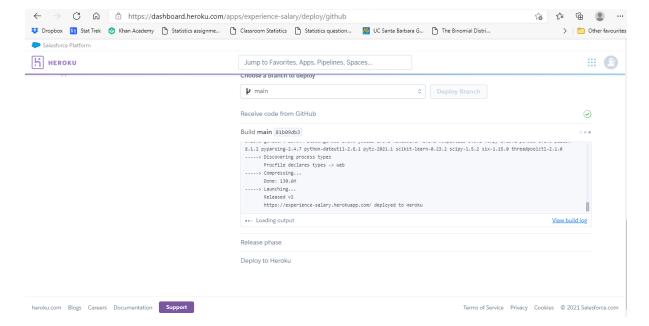
Step 9:

Link Github Account with Heroku app



Step 10:

Deploy the Model on Heroku



Step 11:

App successfully deployed

ML API (experience-salary.herokuapp.com)

