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The image displays two screenshots of a Visual Studio Code editor interface, showing the development of a Flask web application.

Top Screenshot: The editor is open to the `app.py` file. The code defines a Flask application with a `home` route and a `predict` route. The `predict` route uses a loaded model to make predictions based on request data. The terminal window shows the installation of `gunicorn` and the execution of `pip freeze > requirements.txt`.

```
1 from flask import Flask, render_template, request, jsonify
2 import numpy as np
3 import pickle
4
5
6 app = Flask(__name__)
7 model = pickle.load(open('model.pkl', 'rb'))
8
9 @app.route("/")
10 def home():
11     return render_template("index.html")
12
13 @app.route('/predict', methods=['POST'])
14 def predict():
15
16     int_features = [int(x) for x in request.form.values()]
17     final_features = [np.array(int_features)]
18     prediction = model.predict(final_features)
19
```

Bottom Screenshot: The editor is open to the `model.py` file. The code loads a dataset from `ds_salaries.csv`, preprocesses it by dropping the `salary_in_usd` column and converting the `experience_level` to integers. It then trains a `LinearRegression` model on the training data.

```
5 import pickle
6
7 dataset = pd.read_csv('ds_salaries.csv')
8 Y = dataset['salary_in_usd']
9 X = dataset.drop(['salary_in_usd'], axis=1)
10
11
12 def convert_to_int(string):
13     dict = {'EN':1, 'EX':2, 'MI':3, 'SE':4}
14     return dict[string]
15
16 X['experience_level'] = X['experience_level'].apply(lambda x : convert_to_int(x))
17
18 from sklearn.linear_model import LinearRegression
19 regressor = LinearRegression()
20
21
22
23 #Fitting model with training data
```

Both screenshots show the terminal window with the following output:

```
Collecting gunicorn==20.1.0
  Downloading gunicorn-20.1.0-py3-none-any.whl (79 kB)
    79.5/79.5 kB 1.5 MB/s eta 0:00:00
Requirement already satisfied: setuptools>=3.0 in c:\python310\lib\site-packages (from gunicorn==20.1.0) (58.1.0)
Installing collected packages: gunicorn
Successfully installed gunicorn-20.1.0
PS C:\Users\MEPI\Desktop\Internship\flask> pip freeze > requirements.txt
>>
PS C:\Users\MEPI\Desktop\Internship\flask>
```

index.html - flask - Visual Studio Code

EXPLORER

- FLASK
 - templates
 - index.html
 - app.py
 - ds_salaries.csv
 - model.pkl
 - model.py
 - Profile
 - requirements.txt
 - wsgi.py

templates > index.html > html > body > div.login > form > input

```
13 </head>
14
15 <body>
16   <div class="login">
17     <h1>Predict Salary of Data Scientist</h1>
18
19     <!-- Main Input For Receiving Query to our ML -->
20     <form action="{{ url_for('predict')}}" method="post">
21       <input type="text" name="experience" placeholder="Experience" required="required" />
22       <input type="text" name="Remote Ratio" placeholder="Remote Ratio" required="required" />
23
24       <button type="submit" class="btn btn-primary btn-block btn-large">Predict</button>
25     </form>
26
27     <br>
28     <br>
29     {{ prediction_text }}
30
31   </div>
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Collecting gunicorn==20.1.0
Downloading gunicorn-20.1.0-py3-none-any.whl (79 kB)
79.5/79.5 kB 1.5 MB/s eta 0:00:00
Requirement already satisfied: setuptools=3.0 in c:\python310\lib\site-packages (from gunicorn==20.1.0) (58.1.0)
Installing collected packages: gunicorn
Successfully installed gunicorn-20.1.0
PS C:\Users\MEPI\Desktop\Internship\flask> pip freeze > requirements.txt
>>
PS C:\Users\MEPI\Desktop\Internship\flask> []

Ln 22, Col 73 Spaces: 2 UTF-8 CRLF HTML Go Live

Profile - flask - Visual Studio Code

EXPLORER

- FLASK
 - templates
 - app.py
 - ds_salaries.csv
 - model.pkl
 - model.py
 - Profile
 - requirements.txt
 - wsgi.py

Profile

```
1 web: gunicorn wsgi:app
2
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Collecting gunicorn==20.1.0
Downloading gunicorn-20.1.0-py3-none-any.whl (79 kB)
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Installing collected packages: gunicorn
Successfully installed gunicorn-20.1.0
PS C:\Users\MEPI\Desktop\Internship\flask> pip freeze > requirements.txt
>>
PS C:\Users\MEPI\Desktop\Internship\flask> []

Ln 2, Col 1 Spaces: 4 UTF-8 CRLF Plain Text Go Live

ds-salary · GitHub | Heroku x ML API

dashboard.heroku.com/apps/ds-salary/deploy/github

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Deployment method

Heroku Git Use Heroku CLI

GitHub Connected

Container Registry Use Heroku CLI

App connected to GitHub

Code diffs, manual and auto deploys are available for this app.

Connected to yesminemn/ds-salary-toy by yesminemn

Disconnect...

Releases in the activity feed link to GitHub to view commit diffs

Automatic deploys

Enables a chosen branch to be automatically deployed to this app.

You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions here.

Enable automatic deploys from GitHub

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ds-salary · GitHub | Heroku x ML API

ds-salary.herokuapp.com

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Predict Salary of Data Scientist

Experience Remote Ratio Predict

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