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Batch: LISUM21

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**Submitted to: Data Glacier** 

## **AWS Deployment Steps:**

#### 1. Code

a. App.py

```
Plask:Deployment > ♠ app.py

5     app = Flask(_name_)
6     model = pickle.load(open('model.pkl', 'rb'))
7

8     @app.route('/')
9     def home():
10         return render_template('index.html')
11

12     @app.route('/predict',methods=['POST'])
13     def predict():
14

15     int_features = [int(x) for x in request.form.values()]
16     final_features = [np.array(int_features)]
17     prediction = model.predict(final_features)
18

19     output = round(prediction[0], 2)
20

21     return render_template('index.html', prediction_text='Employee Salary should be $ {}'.format(output))
22
23
24     if __name__ == "__main__":
25     app.run(host='0.0.0.0', port=5000)
```

Change the host to "0.0.0.0." and host to 5000 (so the aws could recognize it)

#### 2. Insert the values:

# **Predict Salary Analysis**

Experience	Test Score	Interview Score	Predict
Predict Salar	y Analysis		
3	[6	[5	Predict

#### 3. Results

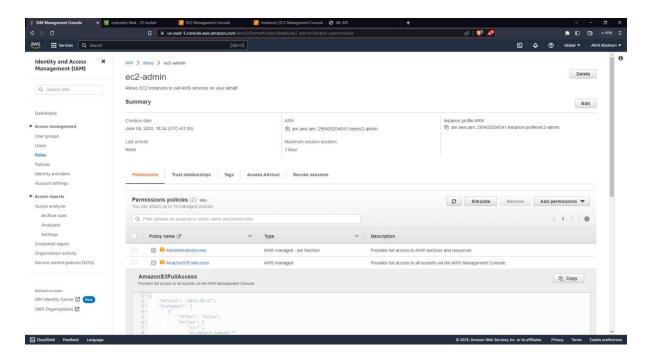
# **Predict Salary Analysis**

Experience	Test Score	Interview Score	Predict

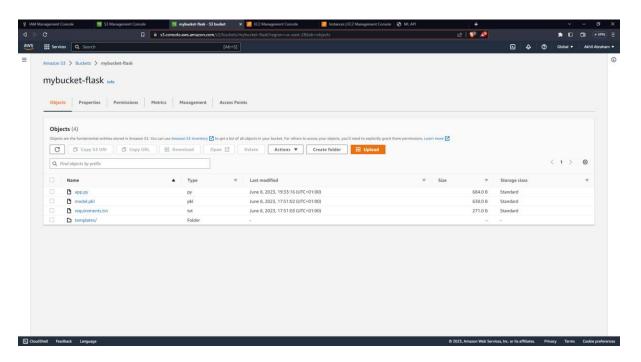
Employee Salary should be \$ 47824.73

The ML program runs perfectly in the local system.

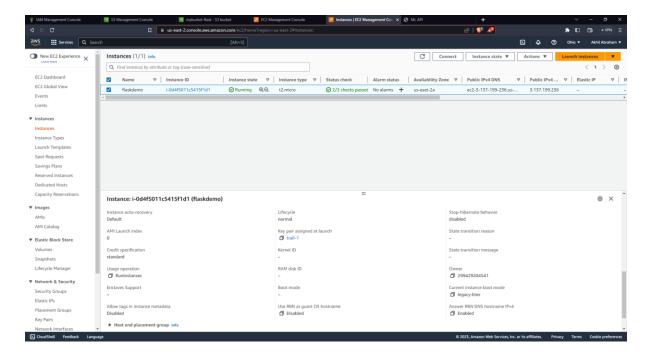
#### 4. Create IAM role S3 access:



#### 5. Upload to S3 bucket:



#### 6. Create EC2 instance with SSH and HTML:



#### 7. Install required packages:

Installed python3, pip3, numpy, sklearn, flask, pandas, gunicorn in aws CLI

#### 8. Copy the contents of your local repository to s3 bucket:

```
ubuntu@ip-172-31-7-250:~$ aws s3 cp s3://mybucket-flask/app.py to ./app.py
ubuntu@ip-172-31-7-250:~$ aws s3 cp s3://mybucket-flask/requirements.txt requirements.txt
download: s3://mybucket-flask/requirements.txt to ./requirements.txt
ubuntu@ip-172-31-7-250:~$ ls
app.py requirements.txt
ubuntu@ip-172-31-7-250:~$ aws s3 cp s3://mybucket-flask/model.pkl model.pkl
download: s3://mybucket-flask/model.pkl to ./model.pkl
ubuntu@ip-172-31-7-250:~$ aws s3 cp s3://mybucket-flask/template template
fatal error: An error occurred (404) when calling the HeadObject operation: Key "template" does not exist
ubuntu@ip-172-31-7-250:~$ aws s3 cp s3://mybucket-flask/templates templates
fatal error: An error occurred (404) when calling the HeadObject operation: Key "templates" does not exist
ubuntu@ip-172-31-7-250:~$ mkdir templates

ubuntu@ip-172-31-7-250:~$ mkdir templates
ubuntu@ip-172-31-7-250:~$ s aws s3 cp s3://mybucket-flask/templates/index.html index.html
download: s3://mybucket-flask/templates/index.html to ./index.html
ubuntu@ip-172-31-7-250:~$ ls
app.py index.html model.pkl requirements.txt templates
ubuntu@ip-172-31-7-250:~$ aws s3 cp s3://mybucket-flask/templates/index.html
ubuntu@ip-172-31-7-250:~$ aws s3 cp s3://mybucket-flask/templates/index.html
ubuntu@ip-172-31-7-250:~$ ls
app.py index.html model.pkl requirements.txt templates
ubuntu@ip-172-31-7-250:~$ ls
app.py index.html model.pkl requirements.txt templates
```

#### 9. Run the program:



## 10. Result:

