

Arnav Bansal

E18CSE028

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jupyter Untitled Last Checkpoint: a few seconds ago (unsaved changes)

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Kernel starting, please wait... Trusted conda_python3

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Code

🗨

🔄 nbdiff

In []:

```
In [3]: # import libraries
import boto3, re, sys, math, json, os, sagemaker, urllib.request
from sagemaker import get_execution_role
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from IPython.display import Image
from IPython.display import display
from time import gmtime, strftime
from sagemaker.predictor import csv_serializer

# Define IAM role
role = get_execution_role()
prefix = 'sagemaker/DEMO-xgboost-dm'
containers = {'us-west-2': '433757028032.dkr.ecr.us-west-2.amazonaws.com/xgboost:latest',
              'us-east-1': '811284229777.dkr.ecr.us-east-1.amazonaws.com/xgboost:latest',
              'us-east-2': '825641698319.dkr.ecr.us-east-2.amazonaws.com/xgboost:latest',
              'eu-west-1': '685385470294.dkr.ecr.eu-west-1.amazonaws.com/xgboost:latest'} # each region has its XGBo

my_region = boto3.session.Session().region_name # set the region of the instance
print("Success - the MySageMakerInstance is in the " + my_region + " region. You will use the " + containers[my_regi

Success - the MySageMakerInstance is in the us-east-1 region. You will use the 802345264197.dkr.ecr.us-east-1.amazo
naws.com/xgboost:latest container for your SageMaker endpoint.
```

```
In [4]: bucket_name = '3041lab12' # <--- CHANGE THIS VARIABLE TO A UNIQUE NAME FOR YOUR BUCKET
s3 = boto3.resource('s3')
try:
    if my_region == 'us-east-1':
        s3.create_bucket(Bucket=bucket_name)
    else:
        s3.create_bucket(Bucket=bucket_name, CreateBucketConfiguration={'LocationConstraint': my_region })
    print('S3 bucket created successfully')
except Exception as e:
    print('S3 error: ',e)

S3 bucket created successfully
```

```
In [5]: try:
        urllib.request.urlretrieve ("https://d1.awsstatic.com/tmt/build-train-deploy-machine-learning-model-sagemaker/bank
        print('Success: downloaded bank_clean.csv.')
    except Exception as e:
        print('Data load error: ',e)

    try:
        model_data = pd.read_csv('./bank_clean.csv', index_col=0)
        print('Success: Data loaded into dataframe.')
    except Exception as e:
```



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