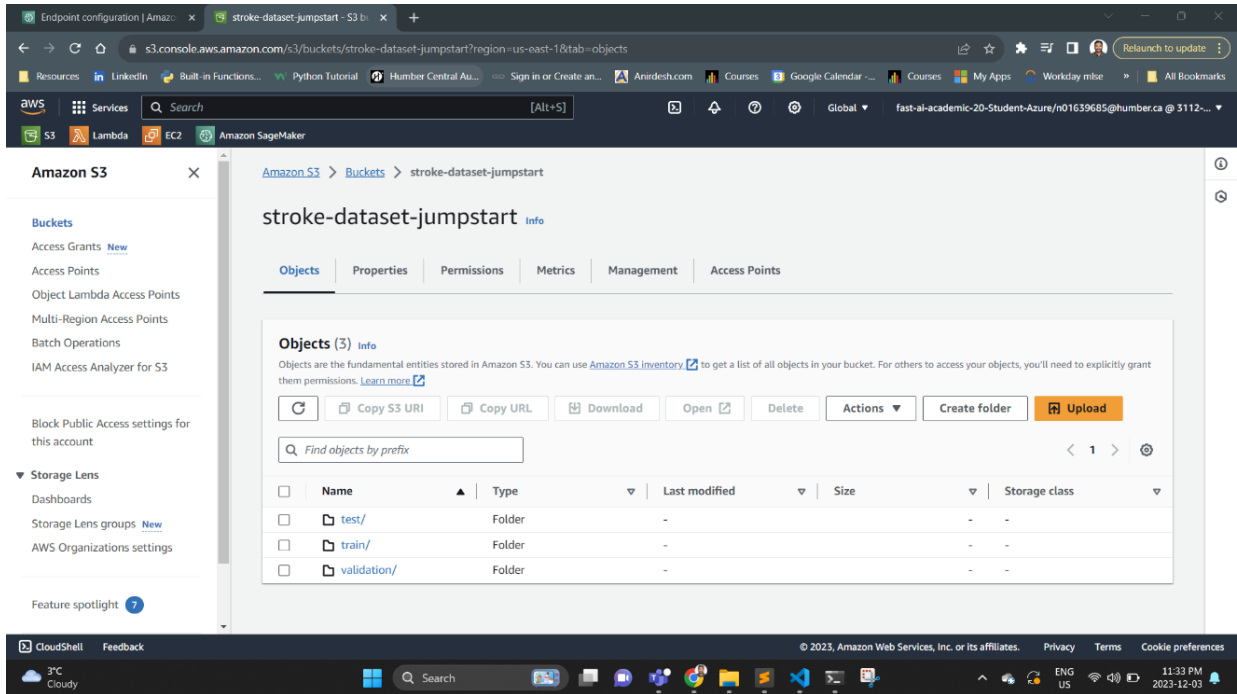
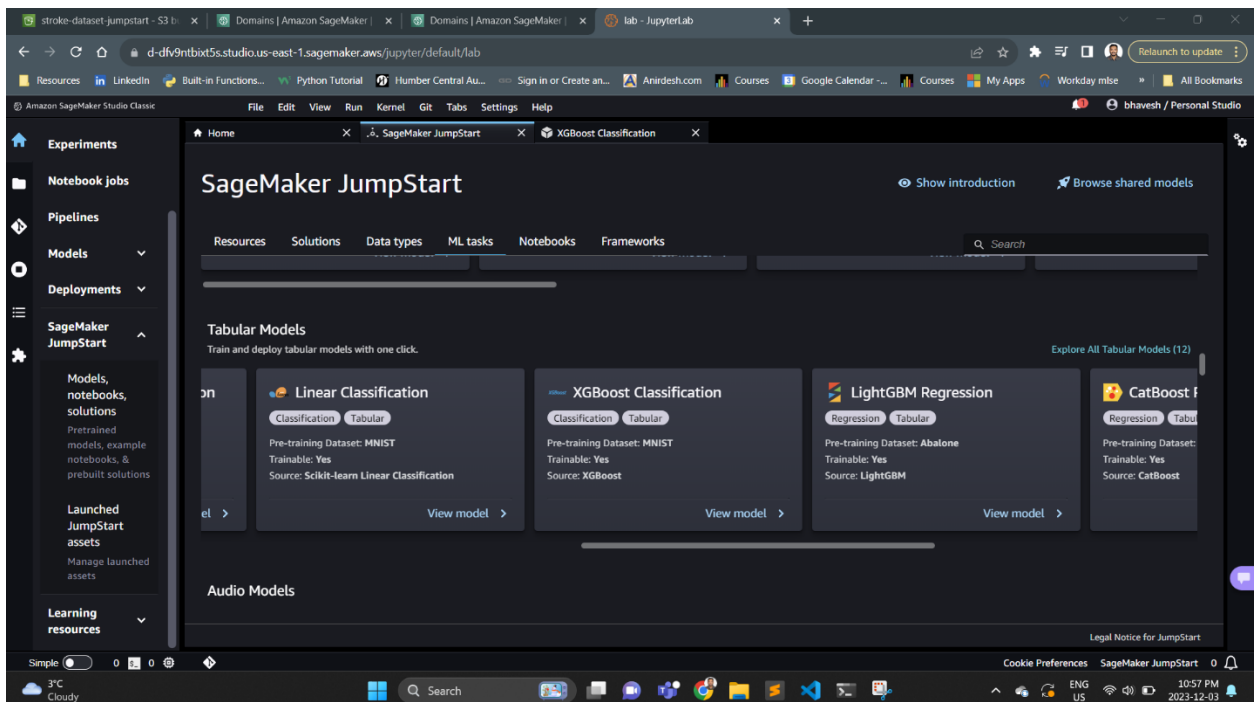


## Assignment 9 – JumpStart in Sage Maker

1. Creating S3 bucket and folders of train, validation and test and place respective data.csv file into those folders.



2. Creating Domain and Launch SageMaker - Model Selection from the list of models in JumpStart



3. Select XGBoost Classification Model form Jumpstart - Predicting Stroke in the health dataset.

The screenshot shows the Amazon SageMaker Studio Classic interface. The left sidebar contains navigation options: Experiments, Notebook jobs, Pipelines, Models, Deployments, SageMaker JumpStart, and Learning resources. The main panel displays the 'XGBoost Classification' model configuration. The 'Train Model' section is active, showing fields for 'Training data set' (s3://stroke-dataset-jumpstart/train/), 'Validation data set' (s3://stroke-dataset-jumpstart/validation/), and 'Column headers' (s3://bucketName/key). The 'Deploy' button is visible at the top right of the configuration area.

4. Select the configuration and Start the Training Job. Check in the Training Tab for Job Status.

The screenshot shows the Amazon SageMaker Studio Classic interface with the 'Training Status' tab selected for the 'smjs-c-xgb-classification-model-20231204-040947'. The 'Training Status' section indicates 'In Progress' with the message 'The training job to fit this model to your data is in progress. This may take some time.' Below this, the 'Logs' and 'Training job details' sections are visible, showing 'No older events at this moment. Retry' and 'No training logs' respectively.

The bottom part of the screenshot shows the 'Training jobs' table in the Amazon SageMaker console. The table lists the training jobs and their status.

Name	Creation time	Duration	Job status	Warm pool status	Time left
smjs-c-xgb-classification-model-20231204-040947	12/5/2023, 11:09:51 PM	4 minutes	Completed	-	-
DEMO-xgboost-2023-11-14-06-56-47	11/14/2023, 1:56:57 AM	5 minutes	Completed	-	-

## 5. Training Job Completed in SageMaker Studio

The screenshot shows the Amazon SageMaker Studio interface. The left sidebar contains navigation options: Experiments, Notebook jobs, Pipelines, Models, Deployments, SageMaker JumpStart, and Learning resources. The main panel displays the 'TRAINING JOB' for 'smjs-c-xgb-classification-model-20231204-040947'. The 'Training status' tab is active, showing a 'Complete' status with a green checkmark. Below this, the 'Logs' tab is selected, displaying a list of log entries. The bottom status bar shows the system is 'Simple' and 'Cloudy'.

**TRAINING JOB**  
smjs-c-xgb-classification-model-20231204-040947

Training status: Complete  
The training job that fitted the model to your data is complete. It created a new model and uploaded it to Amazon S3. From here you can see information about the model and deploy the model to an endpoint. You can also access this model from the AWS SageMaker console.

**Logs**  
Training job details

Filter

There are older events to load. [Load more](#)

- > 2023-12-04T04:13:17.908Z [2023-12-04 04:13:13.659 algo-1:7 INFO utils.py:28] RULE\_JOB\_STOP\_SIGNAL\_FILENAME: None
- > 2023-12-04T04:13:17.908Z [2023-12-04 04:13:13.684 algo-1:7 INFO profiler\_config\_parser.py:111] User has disabled profiler.
- > 2023-12-04T04:13:17.908Z [2023-12-04 04:13:14.14] INFO imported framework sagemaker\_xgboost\_container.training
- > 2023-12-04T04:13:17.908Z [2023-12-04 04:13:14.14] INFO No GPUs detected (normal if no gpus installed)

## 6. Check for Model Creation Endpoint Configuration and Endpoint Created.

The screenshot shows the Amazon SageMaker console 'Models' page. The left sidebar contains navigation options: Governance, HyperPod Clusters, Ground Truth, Notebook, Processing, Training, Inference, and CloudShell. The main panel displays a table of models. The 'Create model' button is visible in the top right corner. The table lists four models with their names, ARNs, and creation times.

**Amazon SageMaker > Models**

Models

Create endpoint Create endpoint configuration Actions Create model

Search models

	Name	ARN	Creation time
<input type="radio"/>	xgboost-classification-model-20231204-041805	arn:aws:sagemaker:us-east-1:311247560489:model/xgboost-classification-model-20231204-041805	12/3/2023, 11:18:09 PM
<input type="radio"/>	DEMO-xgboost-2023-11-14-06-56-47	arn:aws:sagemaker:us-east-1:311247560489:model/demo-xgboost-2023-11-14-06-56-47	11/14/2023, 2:10:32 AM
<input type="radio"/>	xgboost-serverless2023-11-14-03-49-36	arn:aws:sagemaker:us-east-1:311247560489:model/xgboost-serverless2023-11-14-03-49-36	11/13/2023, 10:49:37 PM
<input type="radio"/>	DEMO-linear-2023-11-14-03-36-29	arn:aws:sagemaker:us-east-1:311247560489:model/demo-linear-2023-11-14-03-36-29	11/13/2023, 10:45:29 PM

Endpoint configuration | Amazon SageMaker

us-east-1.console.aws.amazon.com/sagemaker/home?region=us-east-1#/endpointConfig

Endpoint configuration

Search endpoint configuration

Name	ARN	Creation time
jumpstart-rtc-xgb-classification-model	arn:aws:sagemaker:us-east-1:311247560489:endpoint-config/jumpstart-rtc-xgb-classification-model	12/3/2023, 11:18:10 PM
DEMO-xgboost-endpoint-config-2023-11-14-07-12-20	arn:aws:sagemaker:us-east-1:311247560489:endpoint-config/demo-xgboost-endpoint-config-2023-11-14-07-12-20	11/14/2023, 2:12:20 AM
xgboost-serverless-epc2023-11-14-03-49-52	arn:aws:sagemaker:us-east-1:311247560489:endpoint-config/xgboost-serverless-epc2023-11-14-03-49-52	11/13/2023, 10:49:53 PM
DEMO-linear-endpoint-config-2023-11-14-03-47-00	arn:aws:sagemaker:us-east-1:311247560489:endpoint-config/demo-linear-endpoint-config-2023-11-14-03-47-00	11/13/2023, 10:47:00 PM

CloudShell Feedback

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3°C Cloudy

Endpoints | Amazon SageMaker

us-east-1.console.aws.amazon.com/sagemaker/home?region=us-east-1#/endpoints

Endpoints

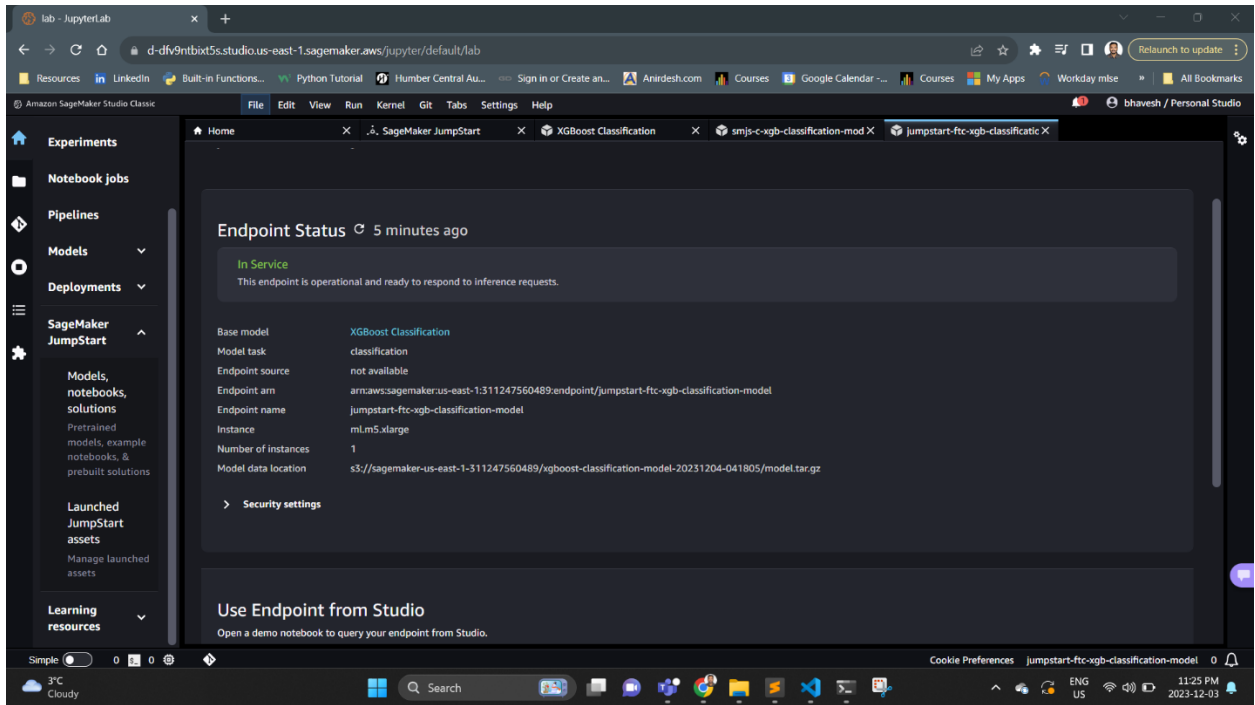
Search endpoints

Name	ARN	Creation time	Status	Last updated
jumpstart-rtc-xgb-classification-model	arn:aws:sagemaker:us-east-1:311247560489:endpoint/jumpstart-rtc-xgb-classification-model	12/3/2023, 11:18:11 PM	Creating	12/3/2023, 11:18:11 PM

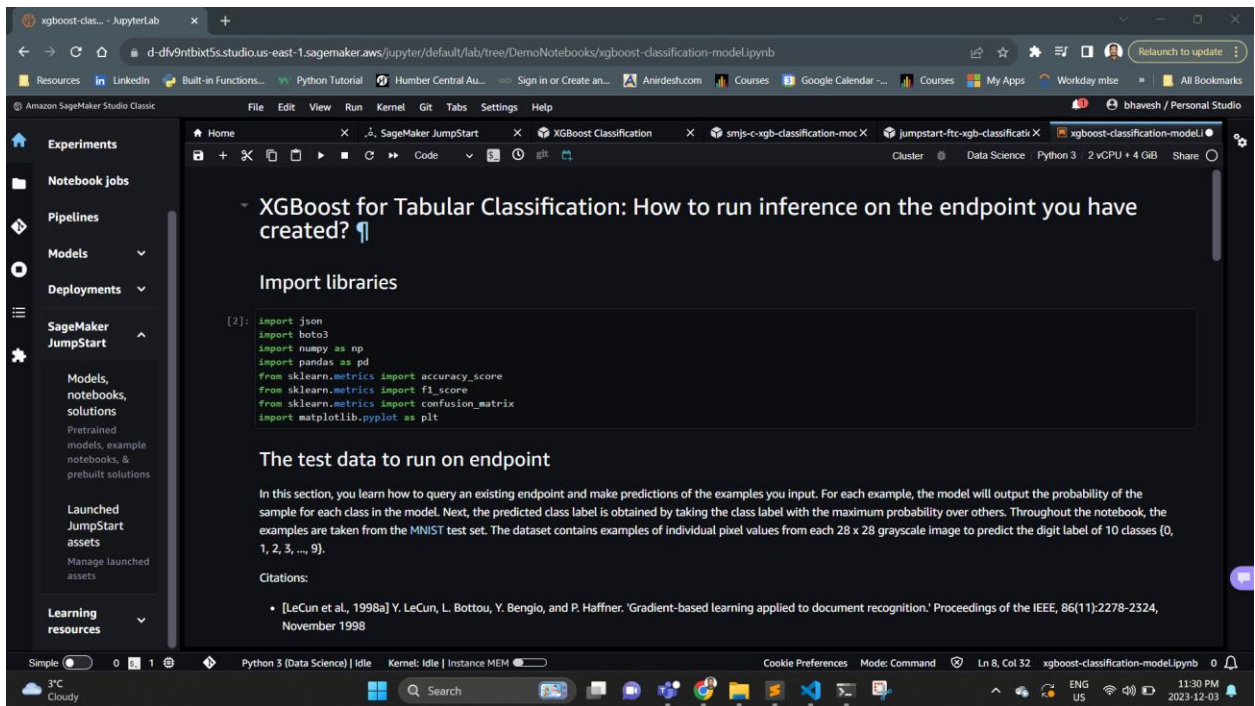
CloudShell Feedback

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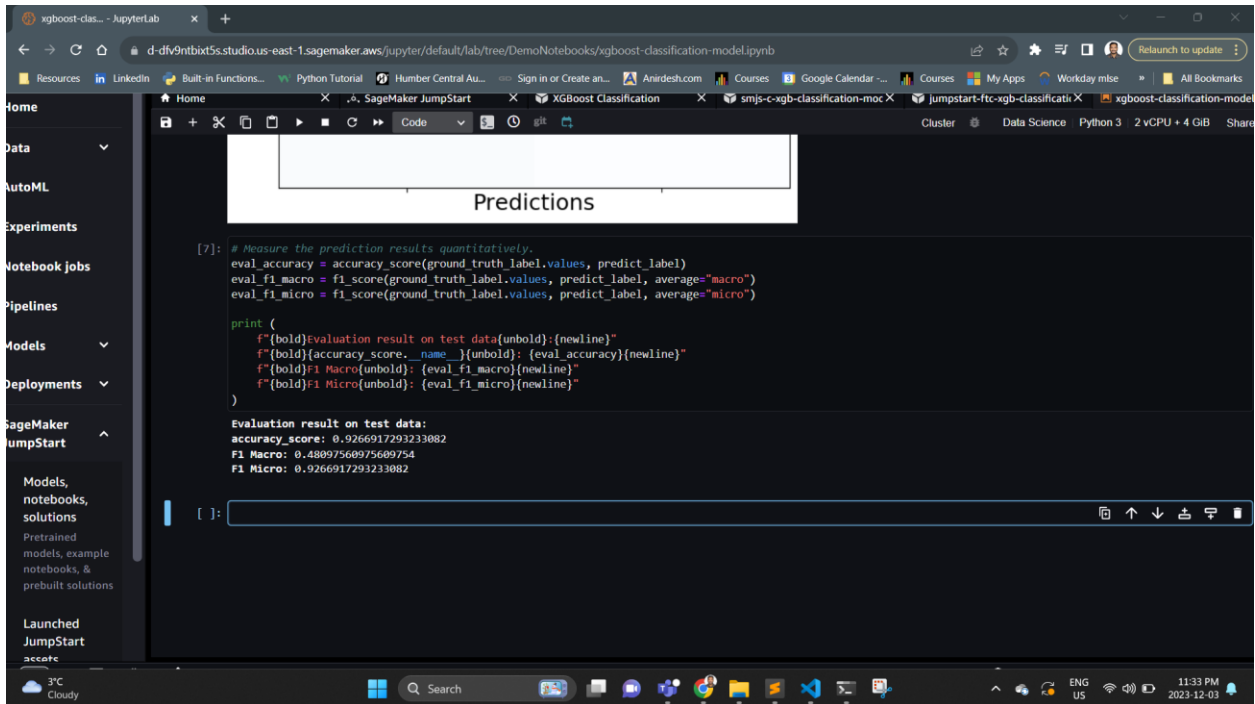
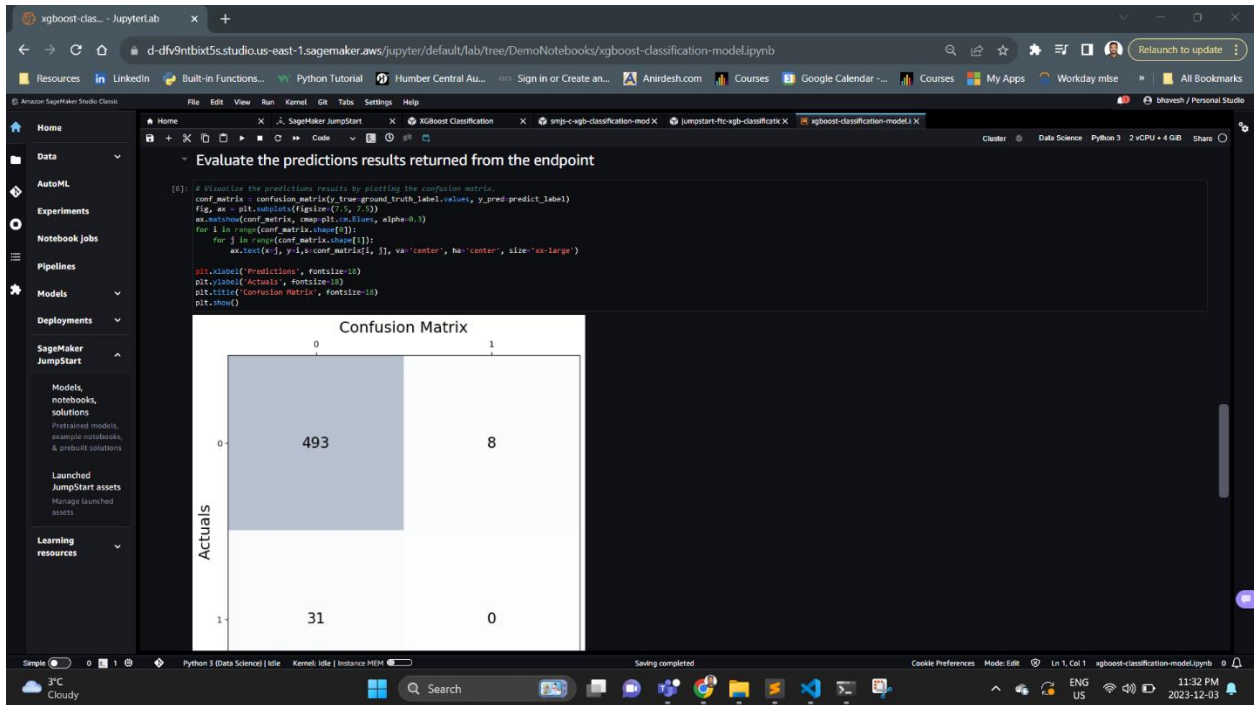
3°C Cloudy



7. Invoke the endpoint that was created to predict the test data.



## 8. Predict the results and share feedback.



Observations: The Accuracy that was predicted by the model is 0.92.