

ap-south-1

S3 bucket created successfully

s3://bankapplication-project/xgboost-formyproject/output

Success: downloaded bank_clean.csv.

Success: Data loaded into dataframe.

(28831, 61) (12357, 61)

train_instance_count has been renamed in sagemaker>=2.

See: <https://sagemaker.readthedocs.io/en/stable/v2.html> for details.

train_instance_type has been renamed in sagemaker>=2.

See: <https://sagemaker.readthedocs.io/en/stable/v2.html> for details.

train_max_run has been renamed in sagemaker>=2.

See: <https://sagemaker.readthedocs.io/en/stable/v2.html> for details.

train_use_spot_instances has been renamed in sagemaker>=2.

See: <https://sagemaker.readthedocs.io/en/stable/v2.html> for details.

train_max_wait has been renamed in sagemaker>=2.

See: <https://sagemaker.readthedocs.io/en/stable/v2.html> for details.

train_volume_size has been renamed in sagemaker>=2.

See: <https://sagemaker.readthedocs.io/en/stable/v2.html> for details.

2024-08-05 08:19:12 Starting - Starting the training job...

2024-08-05 08:19:32 Starting - Preparing the instances for training...

2024-08-05 08:20:06 Downloading - Downloading the training image...

2024-08-05 08:20:37 Training - Training image download completed. Training in progress....

2024-08-05 08:21:02 Uploading - Uploading generated training model[2024-08-05 08:20:55.679

ip-10-0-124-169.ap-south-1.compute.internal:7 INFO utils.py:28] RULE_JOB_STOP_SIGNAL_FILENAME: None

[2024-08-05 08:20:55.701 ip-10-0-124-169.ap-south-1.compute.internal:7 INFO profiler_config_parser.py:111] User has disabled profiler.

[2024-08-05:08:20:55:INFO] Imported framework sagemaker_xgboost_container.training

[2024-08-05:08:20:55:INFO] Failed to parse hyperparameter objective value binary:logistic to Json.

Returning the value itself

[2024-08-05:08:20:55:INFO] No GPUs detected (normal if no gpus installed)

[2024-08-05:08:20:55:INFO] Running XGBoost Sagemaker in algorithm mode

[2024-08-05:08:20:55:INFO] Determined delimiter of CSV input is ','

[2024-08-05:08:20:55:INFO] Determined delimiter of CSV input is ','

[2024-08-05:08:20:55:INFO] files path: /opt/ml/input/data/train

[2024-08-05:08:20:55:INFO] Determined delimiter of CSV input is ','

[2024-08-05:08:20:55:INFO] files path: /opt/ml/input/data/validation

[2024-08-05:08:20:55:INFO] Determined delimiter of CSV input is ','

[2024-08-05:08:20:55:INFO] Single node training.

[2024-08-05:08:20:55:INFO] Train matrix has 28831 rows and 59 columns

[2024-08-05:08:20:55:INFO] Validation matrix has 12357 rows

[2024-08-05 08:20:55.830 ip-10-0-124-169.ap-south-1.compute.internal:7 INFO json_config.py:92] Creating hook from json_config at /opt/ml/input/config/debughookconfig.json.

[2024-08-05 08:20:55.831 ip-10-0-124-169.ap-south-1.compute.internal:7 INFO hook.py:207] tensorboard_dir has not been set for the hook. SMDebug will not be exporting tensorboard summaries.

[2024-08-05 08:20:55.832 ip-10-0-124-169.ap-south-1.compute.internal:7 INFO hook.py:259] Saving to /opt/ml/output/tensors

[2024-08-05 08:20:55.832 ip-10-0-124-169.ap-south-1.compute.internal:7 INFO state_store.py:77] The checkpoint config file /opt/ml/input/config/checkpointconfig.json does not exist.

[2024-08-05:08:20:55:INFO] Debug hook created from config

[08:20:55] WARNING: ../src/learner.cc:1061: Starting in XGBoost 1.3.0, the default evaluation metric used with the objective 'binary:logistic' was changed from 'error' to 'logloss'. Explicitly set eval_metric if you'd like to restore the old behavior.

[2024-08-05 08:20:55.868 ip-10-0-124-169.ap-south-1.compute.internal:7 INFO hook.py:428] Monitoring the collections: metrics

[2024-08-05 08:20:55.870 ip-10-0-124-169.ap-south-1.compute.internal:7 INFO hook.py:491] Hook is writing from the hook with pid: 7

[0]#011train-logloss:0.57285#011validation-logloss:0.57388

[1]#011train-logloss:0.49296#011validation-logloss:0.49483

[2]#011train-logloss:0.43699#011validation-logloss:0.44017

[3]#011train-logloss:0.39663#011validation-logloss:0.40048

[4]#011train-logloss:0.36733#011validation-logloss:0.37209

[5]#011train-logloss:0.34574#011validation-logloss:0.35146

[6]#011train-logloss:0.32987#011validation-logloss:0.33640

[7]#011train-logloss:0.31788#011validation-logloss:0.32478

[8]#011train-logloss:0.30915#011validation-logloss:0.31662

[9]#011train-logloss:0.30226#011validation-logloss:0.31044

[10]#011train-logloss:0.29718#011validation-logloss:0.30609

[11]#011train-logloss:0.29316#011validation-logloss:0.30271

[12]#011train-logloss:0.29028#011validation-logloss:0.30029

[13]#011train-logloss:0.28766#011validation-logloss:0.29825

[14]#011train-logloss:0.28567#011validation-logloss:0.29661

[15]#011train-logloss:0.28434#011validation-logloss:0.29565

[16]#011train-logloss:0.28328#011validation-logloss:0.29466

[17]#011train-logloss:0.28189#011validation-logloss:0.29366

[18]#011train-logloss:0.28103#011validation-logloss:0.29344

[19]#011train-logloss:0.28020#011validation-logloss:0.29296

[20]#011train-logloss:0.27964#011validation-logloss:0.29269

[21]#011train-logloss:0.27923#011validation-logloss:0.29267

[22]#011train-logloss:0.27900#011validation-logloss:0.29280

[23]#011train-logloss:0.27840#011validation-logloss:0.29243

[24]#011train-logloss:0.27799#011validation-logloss:0.29234

[25]#011train-logloss:0.27755#011validation-logloss:0.29206

[26]#011train-logloss:0.27718#011validation-logloss:0.29196

[27]#011train-logloss:0.27688#011validation-logloss:0.29192

[28]#011train-logloss:0.27663#011validation-logloss:0.29183

[29]#011train-logloss:0.27642#011validation-logloss:0.29160

[30]#011train-logloss:0.27613#011validation-logloss:0.29140

[31]#011train-logloss:0.27585#011validation-logloss:0.29134

[32]#011train-logloss:0.27554#011validation-logloss:0.29136

[33]#011train-logloss:0.27516#011validation-logloss:0.29135

[34]#011train-logloss:0.27511#011validation-logloss:0.29132

[35]#011train-logloss:0.27494#011validation-logloss:0.29133
[36]#011train-logloss:0.27468#011validation-logloss:0.29143
[37]#011train-logloss:0.27429#011validation-logloss:0.29122
[38]#011train-logloss:0.27402#011validation-logloss:0.29117
[39]#011train-logloss:0.27385#011validation-logloss:0.29128
[40]#011train-logloss:0.27366#011validation-logloss:0.29118
[41]#011train-logloss:0.27352#011validation-logloss:0.29117
[42]#011train-logloss:0.27316#011validation-logloss:0.29111
[43]#011train-logloss:0.27294#011validation-logloss:0.29095
[44]#011train-logloss:0.27274#011validation-logloss:0.29101
[45]#011train-logloss:0.27254#011validation-logloss:0.29093
[46]#011train-logloss:0.27240#011validation-logloss:0.29085
[47]#011train-logloss:0.27223#011validation-logloss:0.29084
[48]#011train-logloss:0.27210#011validation-logloss:0.29078
[49]#011train-logloss:0.27198#011validation-logloss:0.29069

2024-08-05 08:21:15 Completed - Training job completed
Training seconds: 84
Billable seconds: 32
Managed Spot Training savings: 61.9%

Overall Classification Rate: 88.5%

Predicted	No Purchase	Purchase
Observed		
No Purchase	88.5% (10936)	0.0% (0)
Purchase	11.5% (1421)	0.0% (0)

[{'ResponseMetadata': {'RequestId': 'ENYD3KAHE4SNBGKC',
 'HostId':
'G5+wQMZG3V2XL4k+CST6SGk2XHf1NiuchzIIHjkcP5q5OjiJIY4ItRt3MBGcf4LI dn2oM5E+L98rGsvnzyb8GUEnaqVL
bY',
 'HTTPStatusCode': 200,
 'HTTPHeaders': {'x-amz-id-2':
'G5+wQMZG3V2XL4k+CST6SGk2XHf1NiuchzIIHjkcP5q5OjiJIY4ItRt3MBGcf4LI dn2oM5E+L98rGsvnzyb8GUEnaqVL
bY',
 'x-amz-request-id': 'ENYD3KAHE4SNBGKC',
 'date': 'Mon, 05 Aug 2024 12:50:04 GMT',
 'content-type': 'application/xml',
 'transfer-encoding': 'chunked',
 'server': 'AmazonS3',
 'connection': 'close'},
 'RetryAttempts': 0},
 'Deleted': [{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/debug-output/index/000000000/000000000040_
worker_0.json'}],

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{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/profiler-output/system/incremental/2024080508/1
722846000.algo-1.json'},
{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/debug-output/events/000000000020/0000000000
20_worker_0.tfevents'},
{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/debug-output/collections/0000000000/worker_0_c
ollections.json'},
{'Key': 'xgboost-formyproject/test/test.csv'},
{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/profiler-output/system/training_job_end.ts'},
{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/debug-output/index/0000000000/000000000010_
worker_0.json'},
{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/debug-output/index/0000000000/000000000030_
worker_0.json'},
{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/debug-output/index/0000000000/000000000000_
worker_0.json'},
{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/debug-output/events/000000000000/0000000000
00_worker_0.tfevents'},
{'Key': 'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/debug-output/training_job_end.ts'},
{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/profiler-output/framework/training_job_end.ts'},
{'Key': 'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/output/model.tar.gz'},
{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/debug-output/index/0000000000/000000000020_
worker_0.json'},
{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/profiler-output/system/incremental/2024080508/1
722846060.algo-1.json'},
{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/debug-output/events/000000000040/0000000000
40_worker_0.tfevents'},
{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/profiler-output/system/incremental/2024080508/1
722845940.algo-1.json'},
{'Key': 'xgboost-formyproject/train/train.csv'},
{'Key': 'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/debug-output/claim.smd'},
{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/debug-output/events/000000000010/0000000000
10_worker_0.tfevents'},
{'Key':
'xgboost-formyproject/output/sagemaker-xgboost-2024-08-05-08-19-12-579/debug-output/events/000000000030/0000000000
30_worker_0.tfevents'}}]]]
```

