from sagemaker.tuner import HyperparameterTuner, IntegerParameter, ContinuousParameter

hyperparameter\_ranges = {

'max\_depth': IntegerParameter(3, 10),

'eta': ContinuousParameter(0.01, 0.2),

'subsample': ContinuousParameter(0.5, 1.0)

}

tuner = HyperparameterTuner(xgboost\_estimator,

objective\_metric\_name='validation:auc',

hyperparameter\_ranges=hyperparameter\_ranges,

max\_jobs=10,

max\_parallel\_jobs=2)

tuner.fit({'train': 's3://bucket/train.csv', 'validation': 's3://bucket/validation.csv'})