```
--job-dir $GCS_JOB_DIR \
--module-name trainer.task \
--package-path trainer/ \
--region us-central1 \
-- \
--train-files $TRAIN_FILE \
--eval-files $EVAL_FILE \
--train-steps 5000 \
--eval-steps 100
```

The following executes a distributed training job.

source ./scripts/distributed-training.sh

Running a Distributed Training Job with Hyper-parameter Tuning

To run a training job with hyper-parameter tuning, add the '--config' attribute and link to the 'yaml' hyper-parameter configuration file. The code for running the job is the same, but with the attribute '--config' added. Change the bucket names accordingly.

```
--job-dir $GCS_JOB_DIR \
--module-name trainer.task \
--package-path trainer/ \
--region us-central1 \
-- \
--train-files $TRAIN_FILE \
--eval-files $EVAL_FILE \
--train-steps 5000 \
--eval-steps 100
```

hptuning_config.yaml File

This file contains the hyper-parameter and the ranges we wish to explore in tuning our training job on Cloud MLE. The goal of the tuning job is to 'MAXIMIZE' the 'accuracy' metric.

```
trainingInput:
  hyperparameters:
    goal: MAXIMIZE
    hyperparameterMetricTag: accuracy
    maxTrials: 4
    maxParallelTrials: 2
    params:
      - parameterName: learning-rate
        type: DOUBLE
        minValue: 0.00001
        maxValue: 0.005
        scaleType: UNIT LOG SCALE
      - parameterName: first-layer-size
        type: INTEGER
        minValue: 50
        maxValue: 500
        scaleType: UNIT LINEAR_SCALE
      - parameterName: num-layers
        type: INTEGER
        minValue: 1
```