TancarFlow

TensorFlow API r1.4

tf.contrib.learn.learn_runner.run

```
run(
    experiment_fn,
    output_dir=None,
    schedule=None,
    run_config=None,
    hparams=None
)
```

Defined in tensorflow/contrib/learn/python/learn/learn_runner.py.

Make and run an experiment.

It creates an Experiment by calling experiment_fn. Then it calls the function named as schedule of the Experiment.

If schedule is not provided, then the default schedule for the current task type is used. The defaults are as follows:

- · 'ps' maps to 'serve'
- · 'worker' maps to 'train'
- · 'master' maps to 'local_run'

If the experiment's config does not include a task type, then an exception is raised.

Example with run_config (Recommended):

```
def _create_my_experiment(run_config, hparams):

    # You can change a subset of the run_config properties as
    # run_config = run_config.replace(save_checkpoints_steps=500)

return tf.contrib.learn.Experiment(
    estimator=my_estimator(config=run_config, hparams=hparams),
    train_input_fn=my_train_input,
    eval_input_fn=my_eval_input)

learn_runner.run(
    experiment_fn=_create_my_experiment,
    run_config=run_config_lib.RunConfig(model_dir="some/output/dir"),
    schedule="train_and_evaluate",
    hparams=_create_default_hparams())
```

or simply as

```
learn_runner.run(
  experiment_fn=_create_my_experiment,
  run_config=run_config_lib.RunConfig(model_dir="some/output/dir"))
```

if hparams is not used by the Estimator. On a single machine, schedule defaults to train_and_evaluate.

Example with output_dir (deprecated):

```
def _create_my_experiment(output_dir):
    return tf.contrib.learn.Experiment(
        estimator=my_estimator(model_dir=output_dir),
        train_input_fn=my_train_input,
        eval_input_fn=my_eval_input)

learn_runner.run(
    experiment_fn=_create_my_experiment,
    output_dir="some/output/dir",
    schedule="train")
```

Args:

- experiment_fn: A function that creates an Experiment. It could be one of the two following signatures: 1)
 [Deprecated] It accepts an argument output_dir which should be used to create the Estimator (passed as model_dir to its constructor). It must return an Experiment. For this case, run_config and hparams must be None.
 2) It accepts two arguments run_config and hparams, which should be used to create the Estimator (run_config passed as config to its constructor; hparams used as the hyper-parameters of the model). It must return an Experiment. For this case, output_dir must be None.
- output_dir: Base output directory [Deprecated].
- schedule: The name of the method in the Experiment to run.
- run_config: RunConfig instance. The run_config.model_dir must be non-empty. If run_config is set,
 output_dir must be None.
- hparams: HParams instance. The default hyper-parameters, which will be passed to the experiment_fn if run_config is not None.

Returns:

The return value of function schedule.

Raises:

- ValueError: If both output_dir and run_config are empty or set, schedule is None but no task type is set in the
 built experiment's config, the task type has no default, run_config.model_dir is empty or schedule doesn't
 reference a member of Experiment.
- TypeError: schedule references non-callable member.

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Last updated November 2, 2017.

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