$_flower_data_setirisdata5:$
$_docs/python/tf/estimator/DNNClassifier$
$^{future_import absolute_import from_{future_import division from}_{future_import print function}}$

$_TRAINING =$
$"iris_training.csv"IRIS_TRAINING_URL =$
$"http:$
$//download.tensorflow.org/data/iris_training.csv"$
$_TEST =$
$"iris_test.csv"IRIS_TEST_URL =$
$"http:$
$//download.tensorflow.org/data/iris_test.csv"$
$_TRAINING):$
$raw =$
$urllib.urlopen(IRIS_TRAINING_URL).read()withopen(IRIS_TRAINING,"w")asf:$
$f.write(raw)$
$_TEST):$
$raw =$
$urllib.urlopen(IRIS_TEST_URL).read()withopen(IRIS_TEST,"w")asf:$
$f.write(raw)$
$_set =$
$tf.contrib.learn.datasets.base.load_csv_with_header(filename =$
$IRIS_TRAINING, target_dtype =$
$np.int, features_dtype =$
$np.float32)test_set =$
$tf.contrib.learn.datasets.base.load_csv_with_header(filename =$
$IRIS_TEST, target_dtype =$
$np.int, features_dtype =$
$np.float32)$
$_columns =$
$[tf.feature_column.numeric_column("x", shape =$
$[4])]$
$_columns =$
$feature_columns, hidden_units =$
$[10, 20, 10], n_classes =$
$3, model_dir =$
$"/tmp/iris_model")Definethetraininginputstrain_input_fn =$
$tf.estimator.inputs.numpy_input_fn(x =$
$"x": np.array(training_set.data), y =$
$np.array(training_set.target), num_epochs =$
$None, shuffle =$
$True)$
$_fn =$
$train_input_fn, steps =$
$2000)$
$_input_fn =$
$tf.estimator.inputs.numpy_input_fn(x =$
$"x": np.array(test_set.data), y =$
$np.array(test_set.target), num_epochs =$
$1, shuffle =$
$False)$
$_score =$
$classifier.evaluate(input_fn =$
$test_input_fn)["accuracy"]$
$_score))$
$_samples =$
$np.array([[6.4, 3.2, 4.5, 1.5], [5.8, 3.1, 5.0, 1.7]], dtype =$
$np.float32)predict_input_fn =$
$tf.estimator.inputs.numpy_input_fn(x =$
$"x": new_samples, num_epochs =$
$1, shuffle =$
$False)$
$_fn =$
$predict_input_fn))predicted_classes =$
$[p["classes"]forpinpredictions]$
$_classes))$
$_{name == "_{main_{": main()}}}$
$_flower_data_setIrisdataset150iris:$
$Irissetosa, IrisvirginicaIrisversicolor[h][scale =$
$0.4]iris_three_species0Irissetosa, 1Irisversicolor, 2Irisvirginicairis$
$_training.csviristraining.csv30http: //download.tensorflow.org/data/iris_test.csviristest.csv$
$^{future_import absolute_import from_{future_import division from}_{future_import print function}}$

$_TRAINING =$
$"iris_training.csv"IRIS_TRAINING_URL =$
$"http:$
$//download.tensorflow.org/data/iris_training.csv"$
$_TEST =$
$"iris_test.csv"IRIS_TEST_URL =$
$"http:$
$//download.tensorflow.org/data/iris_test.csv"$
$_TRAINING):$
$raw =$
$urllib.urlopen(IRIS_TRAINING_URL).read()withopen(IRIS_TRAINING,'w')asf:$