Tensor Flow cheat sheet

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1 Data Prepocessing

1.1 Feature columns

`tf.feature_column`

- `tf.feature_column.numeric_column(`*colname*`)`

- `tf.feature_column.bucketized_column(`*tf.feature_coumn.numeric_column*, *boundaries_list*`)`

- `tf.feature_column.categorical_column_with_identity(`*colname*, *num_buckets*`)`

- `tf.feature_column.categorical_column_with_vocabulary_list(`*colname*, *vocabulary_list*`)`

- `tf.feature_column.categorical_column_with_hash_bucket()`*colname*, *hash_bucket_size*`)`

2 Estimator API

`tf.Estimator`

- `tf.estimator.train_and_evaluate(estimator, train_spec, eval_spec)`

  - *estimator* is an instance of *tf.estimator*.
    Sample singature: `tf.estimator.`*[model_name]*`(`*model_dir*, *feature_columns*, *model_params*`)`
  - *train_spec* is an instance of *tf.estimator.TrainSpec*
    Sample signature: `tf.estimator.TrainSpec(`*input_fn*, *max_steps*`)`

– *eval_spec* is an instance of *tf.estimator.EvalSpec*

Sample signature: `tf.estimator.EvalSpec(`*input_fn,steps*, *start_delay_secs*, *throttle_secs*`)`