TopoorFlow

TensorFlow API r1.4

tf.nn.compute_accidental_hits

```
compute_accidental_hits(
    true_classes,
    sampled_candidates,
    num_true,
    seed=None,
    name=None
)
```

Defined in tensorflow/python/ops/candidate_sampling_ops.py.

See the guide: Neural Network > Candidate Sampling

Compute the position ids in sampled_candidates matching true_classes.

In Candidate Sampling, this operation facilitates virtually removing sampled classes which happen to match target classes. This is done in Sampled Softmax and Sampled Logistic.

See our Candidate Sampling Algorithms Reference.

We presuppose that the sampled_candidates are unique.

We call it an 'accidental hit' when one of the target classes matches one of the sampled classes. This operation reports accidental hits as triples (index, id, weight), where index represents the row number in true_classes, id represents the position in sampled_candidates, and weight is -FLOAT_MAX.

The result of this op should be passed through a **sparse_to_dense** operation, then added to the logits of the sampled classes. This removes the contradictory effect of accidentally sampling the true target classes as noise classes for the same example.

Args:

- true_classes: A Tensor of type int64 and shape [batch_size, num_true]. The target classes.
- sampled_candidates: A tensor of type int64 and shape [num_sampled]. The sampled_candidates output of CandidateSampler.
- num_true: An int. The number of target classes per training example.
- seed: An int. An operation-specific seed. Default is 0.
- name: A name for the operation (optional).

Returns:

- indices: A Tensor of type int32 and shape [num_accidental_hits]. Values indicate rows in true_classes.
- ids: A Tensor of type int64 and shape [num_accidental_hits]. Values indicate positions in sampled_candidates.
- weights: A Tensor of type float and shape [num_accidental_hits]. Each value is -FLOAT_MAX.

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