TopoorFlow

TensorFlow API r1.4

tf.contrib.bayesflow.variational_inference.elbo_with_log_joint

```
elbo_with_log_joint(
    log_joint,
    variational=None,
    keep_batch_dim=True,
    form=None,
    name='ELBO'
)
```

Defined in tensorflow/contrib/bayesflow/python/ops/variational_inference_impl.py.

See the guide: BayesFlow Variational Inference (contrib) > Ops

Evidence Lower BOund. log p(x) >= ELB0.

This method is for models that have computed p(x,Z) instead of p(x|Z). See elbo for further details.

Because only the joint is specified, analytic KL is not available.

Args:

- log_joint: **Tensor** log p(x, Z).
- variational: list of StochasticTensor q(Z). If None, defaults to all StochasticTensor objects upstream of log_joint.
- keep_batch_dim: bool. Whether to keep the batch dimension when summing entropy term. When the sample is per data point, this should be True; otherwise (e.g. in a Bayesian NN), this should be False.
- form: ELBOForms constant. Controls how the ELBO is computed. Defaults to ELBOForms.default.
- name: name to prefix ops with.

Returns:

Tensor ELBO of the same type and shape as log_joint.

Raises:

- TypeError: if variationals in variational are not StochasticTensor s.
- TypeError: if form is not a valid ELBOForms constant.
- ValueError: if variational is None and there are no StochasticTensor s upstream of log_joint.
- ValueError: if form is ELBOForms.analytic_kl.

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