**Recognizing Textual Entailment with PyTorch**

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**Abstract**

This paper describes utilizing a deep learning model to recognize the textual entailment between two sentences. That is, the premise and the hypothesis are encoded and put through a neural network using a model that will be described in this paper. This output, in the training phase will help adjust the weights of the neural network to optimize the performance of the model. This model is then tested on another set of premises and hypothesis to evaluate the model.

**Keywords:** Neural network; Vocabulary; Premise; Hypothesis; Entailment; LSTM

1. **Introduction**