

# Reimplementing “A BERT Baseline for the Natural Questions”

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## Abstract

My capstone project re-implements the paper, “A BERT Baseline for the Natural Questions”. This paper essentially utilizes pretrained Bidirectional Encoder Representations from Transformers, or BERT, on the Natural Question dataset in order to reduce the F1 score of the previous benchmark and the reported human upper bound. My reimplementation of this paper utilizes Pytorch Hugging-Face modules in order to load the necessary transformer modules, as well as tokenize and preprocess the given data set. I utilize a manual training and validation loop, as well as the ultimate evaluation algorithm that reports the F1, accuracy, and recall of the model. This model is ultimately capable of taking in a question and some informational context from which the answer can be determined, and outputs a span of text in the context which answers the given question.