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Machine Learning Operations Project Description

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1 Group Declaration

In this project, we will be training a Boolean Question Answering Model using Transformers. Having decided to the Transformers Framework, we looked specifically for NLP projects where NLP Transformer models would be a natural fit. Within this domain, we were inspired by Micheli's Article Deep Learning has (almost) all the answers: Yes/No Question Answering with Transformers¹. The article uses Roberta to train a Question-Answering bot. We would like to build on this model using a smaller and newer architecture, namely ALBERT or ELECTRA, to ideally receive achieve similar results. We will be using the Hugging Face dataset *Boolq* (containing 15942 examples²) and Pytorch for our project, following good coding practices as per the MLOps coursework.

¹<https://medium.com/illuin/deep-learning-has-almost-all-the-answers-yes-no-question-answering-with-transformers-223bebb70189>

²<https://huggingface.co/datasets/boolq>