Driving Question
How do people from different countries feel about COVID-19 mandates – specifically vaccine policies and digital contact tracing (DCT)?

Our Proposal:
Fine-tune a BERT model to classify the sentiment of global COVID-19 Twitter data related to specific policies.

Baseline
RoBERTa model pre-trained for sentiment analysis of Tweets
- Selected and hydrated (using Twitter API) over 3,000 pre-labelled COVID-19 related Tweets and fine-tuned baseline on this domain
- Adjusted hyper-parameters such as training epochs, optimizer type and learning rate, and batch size to maximize dev set accuracy
- Evaluated two fully-trained models against baseline using multi-class F1 score and accuracy
- Scraped and filtered data with vaccine and DCT keywords from three English speaking countries to make real-world predictions

MODEL RESULTS

WORKS CITED