Adversarial evaluation of model performances

Here is an example on evaluating a model using adversarial evaluation of natural language inference with the Heuristic Analysis for NLI Systems (HANS) dataset McCoy et al., 2019. The example was gracefully provided by Nafise Sadat Moosavi.

The HANS dataset can be downloaded from this location.

This is an example of using test_hans.py:

This will create the hans_predictions.txt file in MODEL_PATH, which can then be evaluated using hans/evaluate_heur_output.py from the HANS dataset.

The results of the BERT-base model that is trained on MNLI using batch size 8 and the random seed 42 on the HANS dataset is as follows:

```
Heuristic entailed results:

lexical_overlap: 0.9702

subsequence: 0.9942

constituent: 0.9962

Heuristic non-entailed results:

lexical_overlap: 0.199

subsequence: 0.0396

constituent: 0.118
```