Bart + Beam Search to ONNX

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This folder contains an example of exporting Bart + Beam Search generation (`BartForConditionalGeneration`) to ONNX.

Beam Search contains a for-loop workflow, so we need to make them TorchScript-compatible for exporting to ONNX. This example shows how to make a Bart model be TorchScript-compatible by wrapping up it into a new model. In addition, some changes were made to the `beam_search()` function to make it TorchScript-compatible.

How to run the example

To make sure you can successfully run the latest versions of the example scripts, you have to **install the library from source** and install some example-specific requirements. To do this, execute the following steps in a new virtual environment:

```
git clone https://github.com/huggingface/transformers
cd transformers
pip install '.[onnxruntime]'
```

Then cd in this example folder and run

```
pip install -r requirements.txt
```

Now you can run the example command below to get the example ONNX file:

```
python run_onnx_exporter.py --model_name_or_path facebook/bart-base
```