Assignment-2

Sentiment Analysis Using LSTM Model

Build a LSTM model to detect sentiment (i.e. detect if a sentence is positive or negative) using PyTorch and TorchText. This will be done by using the provided IMDb dataset. Dataset has been uploaded in "Files" section.

Steps to follow:

- 1. Load in and visualize the data (0.5 point)
- 2. Data Processing (1 point point)
- 3. Splitting to train and test data (1 point)
- 4. Analysing sentiment (0.5 point)
- 5. Tockenization (1 point)
- 6. Analysis of review length (0.5 point)
- 7. Padding (0.5 point)
- 8. Batching and loading as tensor (batch size =50) (1 point)
- 9. Model Designing (2 point)
- 10. Training (Calculate training lose and training accuracy) (2 point)

Description: Pad each of the sequence to max length. You need to add an embedding layer and use that layer as a lookup table. You can train that embedding layer using Word2Vec.

Instruction for submission:

- You have to submit single python notebook.
- Mention each step clearly