



9회차 과제 - Pytorch

Date	@2024년 8월 10일 오후 11:59
Tag	과제

word2vec.py

- 학습 속도 향상을 위해 학습 시 데이터를 배치 단위로 처리

load_corpus.py

- huggingface datasets의 [Salesforce/wikitext](#)로부터 wikitext-2-v1의 validation(3760개), test(4358개) 데이터를 corpus로 사용

gru.py

- GRUCell
 - `__init__` : GRU 셀의 구성 요소인 update gate, reset gate, candidate hidden state를 위한 linear layer 정의
 - `forward` : input `x`와 이전 hidden state `h`를 사용하여 update gate (`z_t`), reset gate (`r_t`), candidate hidden state (`h_hat_t`) 계산
 - 최종 hidden state `h_t`는 update gate와 candidate hidden state 기반으로 계산
- GRU
 - 여러 GRU 셀을 연결하여 전체 GRU 레이어를 구현
 - `forward` : input sequence의 각 time step에 대해 GRU 셀 호출

test.py 실행 결과

```
(9-1-pytorch) zieun : 0801-1-pytorch/assignment
python3 test.py
/Users/jieunpark/Library/CloudStorage/GoogleDrive-iamhappyhill@yonsei.ac.kr/내 드라이브/YBigta/0801-1-pytorch/assignment/test.py:20: FutureWarning: You are using `torch.load` with `weights_only=False` (the current default value), which uses the default pickle module implicitly. It is possible to construct malicious pickle data which will execute arbitrary code during unpickling (See https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models for more details). In a future release, the default value for `weights_only` will be flipped to `True`. This limits the functions that could be executed during unpickling. Arbitrary objects will no longer be allowed to be loaded via this mode unless they are explicitly allowlisted by the user via `torch.serialization.add_safe_globals`. We recommend you start setting `weights_only=True` for any use case where you don't have full control of the loaded file. Please open an issue on GitHub for any issues related to this experimental feature.
checkpoint = torch.load("checkpoint.pt")
test result
macro: 0.237158 | micro: 0.528846
```

