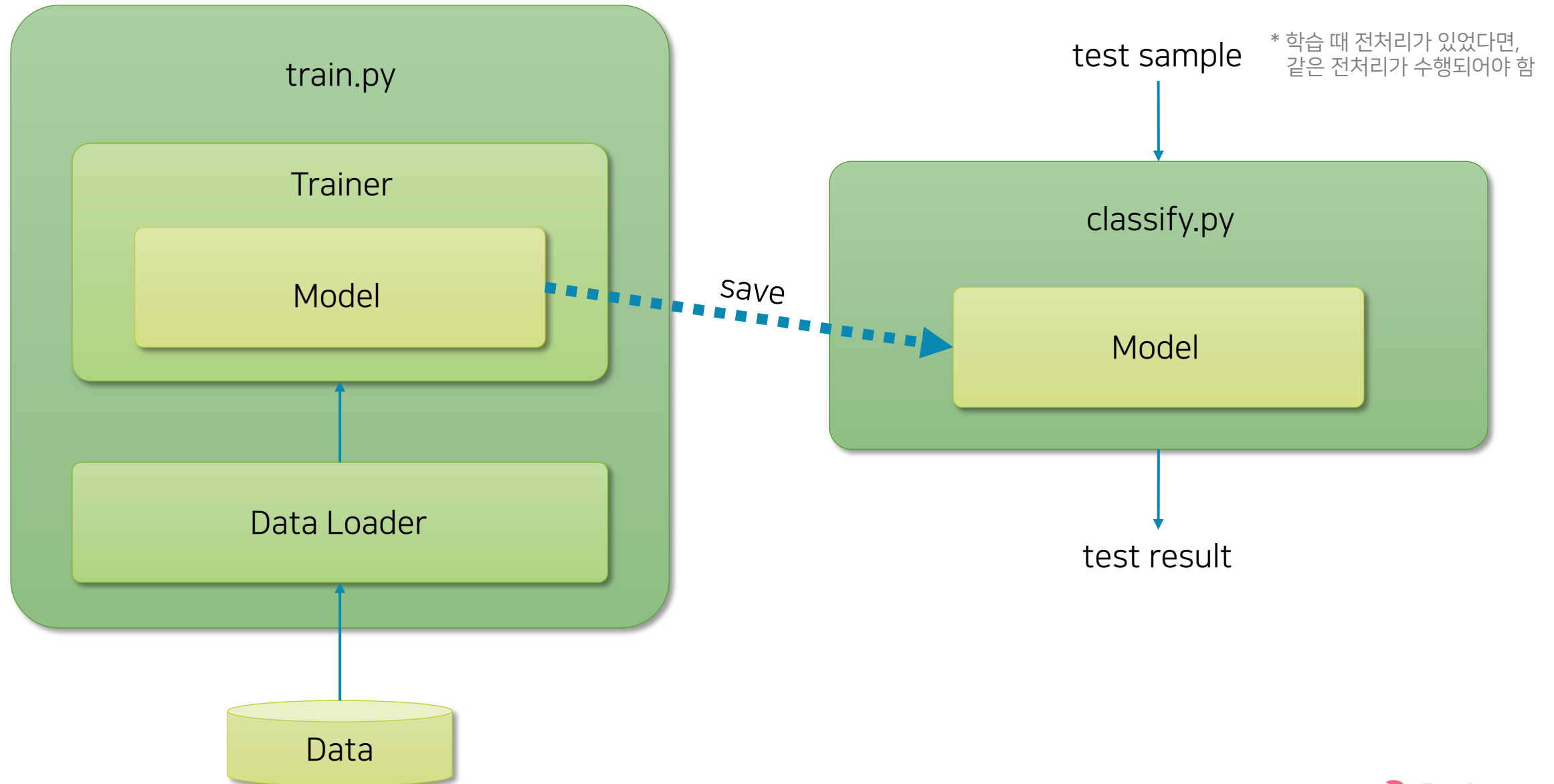


# Text Classification Exercise Overview

Ki Hyun Kim

[nlp.with.deep.learning@gmail.com](mailto:nlp.with.deep.learning@gmail.com)

# Deep Learning Training / Inference Design

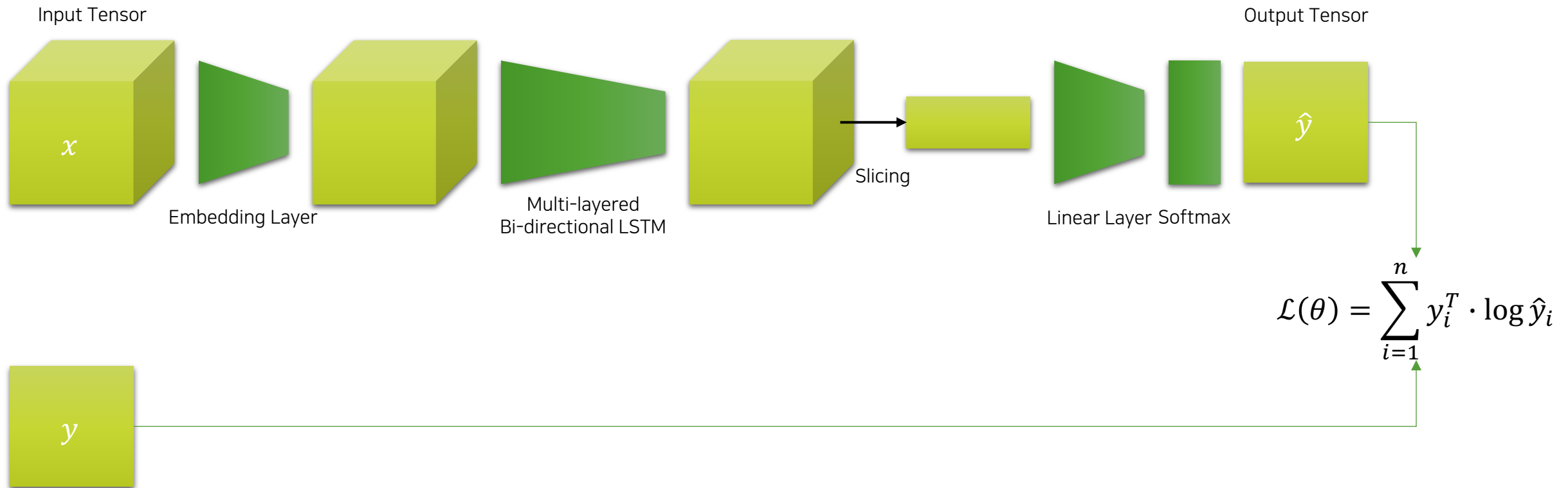


# Problem Definition

- INPUT: 문장
  - input tensor shape:  $(n, \text{length}, |V|)$
- OUTPUT: 클래스
  - output tensor shape:  $(n, |C|)$
- 추후 CNN Classifier를 구현했을 때도 같은 인터페이스를 지닐 것

# Architecture

- Embedding Layer → LSTM → Linear Layer → Softmax



# Other Modules

## Data Loader

- Define Input File Format
  - TSV (Tab Separated Values) format
  - 1<sup>st</sup> Column: Class Label
  - 2<sup>nd</sup> Column: Text
- Implement with TorchText

## Trainer

- Implement with PyTorch Ignite