Fully Convolutional Networks for Semantic Segmentation

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Abstract

1 Introduction

2 Method

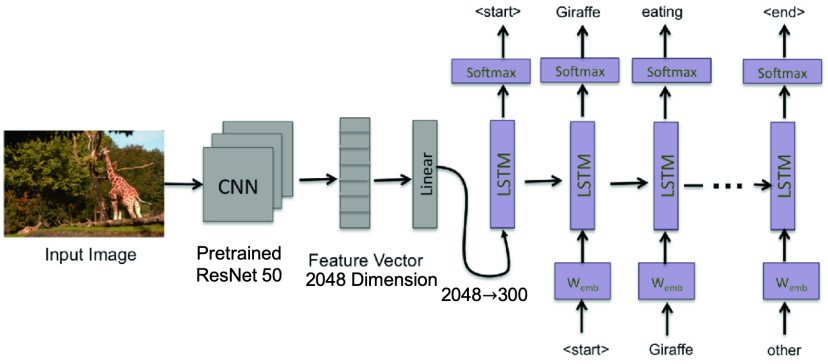

Figure 1: Model Framework [**?**]

3 Experiments

Table 1: Cross entropy loss and perplexity score on the test set

model	cross entropy loss	perplexity score
LSTM with pretrained word embedding	2.30	

Table 2: BLEU-1 and BLEU-4 scores

model	BLEU-1	BLEU-4
LSTM with pretrained word embedding	87.31	19.02

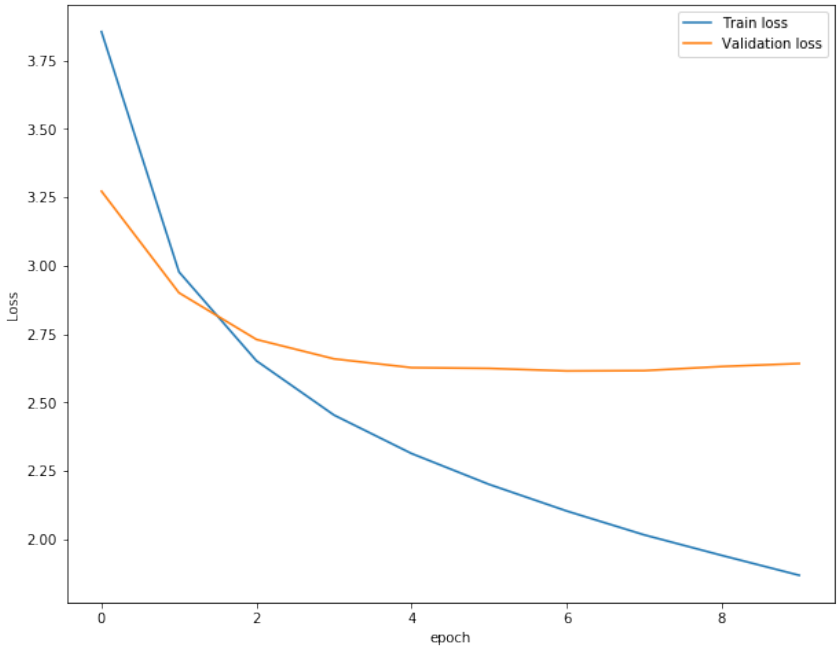

Figure 2: Training and validation loss of vanilla RNN

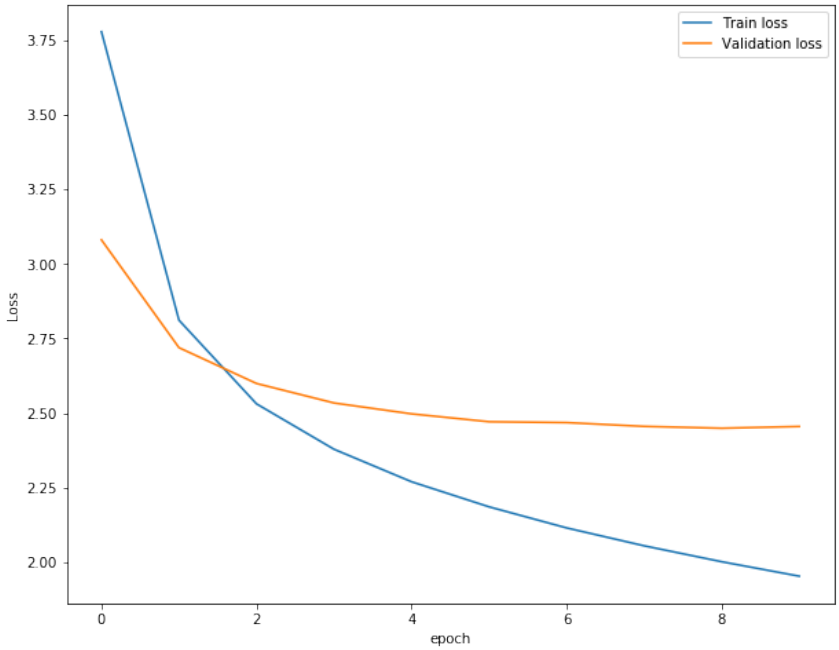

Figure 3: Training and validation loss of vanilla RNN

4 Individual Contribution

Nan Wei

I implement transfer learning with DeepLabv3 and do experiments on basic CNN and DeepLabv3. I also write the report.

Renjie Shao

I implement U-Net architecture and do experiments on U-Net. I also help implement IoU and visualization of segmentation and write some parts of the report.

Hongyi Ling

I write the code of basic fcn and metrics. I also build different experimental CNN architectures and test these neural networks. In addition, I write these parts of the report.