English/Spanish Translation with Language Identification - Project Milestone

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0.1 Abstract

This project's goal is to combine different architectures of neural networks to form a functional English/Spanish translator with the ability to detect the input language and translate to the corresponding opposite language. The resulting product combines a convolutional neural network to classify the input language with two sequence to sequence based recurrent neural networks for learning contextually aware translation.

0.2 Introduction

Recurrent neural networks (RNNs) for Language Classification

Convolutional neural networks (CNNs) for contextually aware translation seq2seq nmt

0.3 Datasets and Training

NLTK