

Deep speech

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This document present our project in machine learning. We have implemented a voice recognition system. We use python3, Keras and Tensorflow.

Introduction

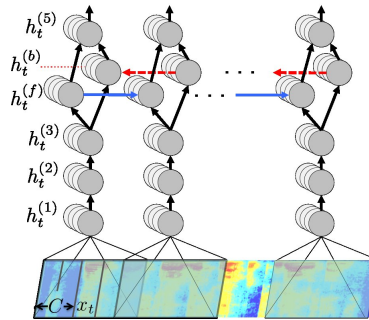
We have implemented this article (*I*) with python3, Keras and Tensorflow. The neuron network used is not common. So we created our own neuron network model.

Model

We have seven layers of neuron. The three first layers are computed by :

$$h_t^{(l)} = g(W^{(l)}h_t^{(l-1)} + b^{(l)})$$

where $g(z) = \min\{\max\{0, z\}, 20\}$



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References and Notes

1. A. Y. Hannun, *et al.*, *CoRR* **abs/1412.5567** (2014).