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Introduction to Neural Networks and TensorFlow

Video: Course 3 Introduction 3 min

Video: Lesson Introduction 44 sec

Reading: Lesson Introduction Clarification 10 min

Video: Neural Networks for Sentiment Analysis 3 min

Reading: Neural Networks for Sentiment Analysis 7 min

Video: Dense Layers and ReLU 2 min

Reading: Dense Layers and ReLU 5 min

Video: Embedding and Mean Layers 3 min

Reading: Embedding and Mean Layers 3 min

Lab: Introduction to TensorFlow 30 min

Ungraded App Item: [IMPORTANT] Have questions, issues or ideas? Join our community on Discourse! 10 min

Practice Assignment: Classification Using Deep Neural Networks

N-grams vs. Sequence Models

Lecture Notes (Optional)

Practice Quiz

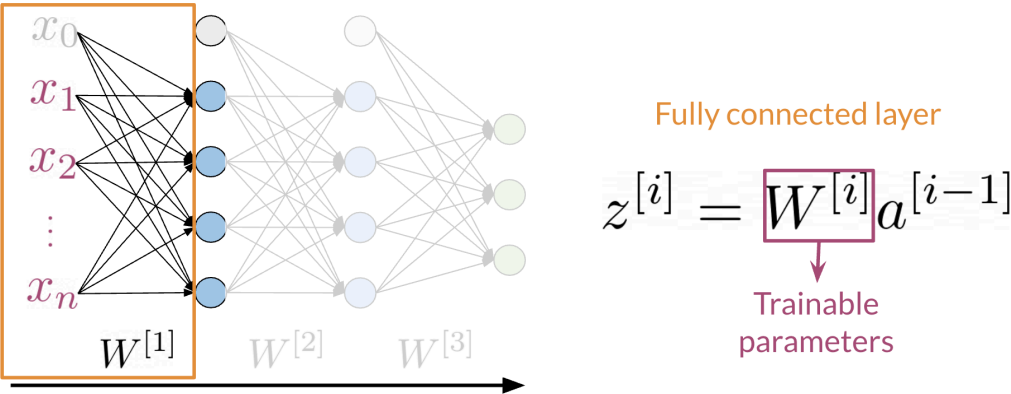
Assignment: Deep N-grams

Week 1 > Dense Layers and ReLU

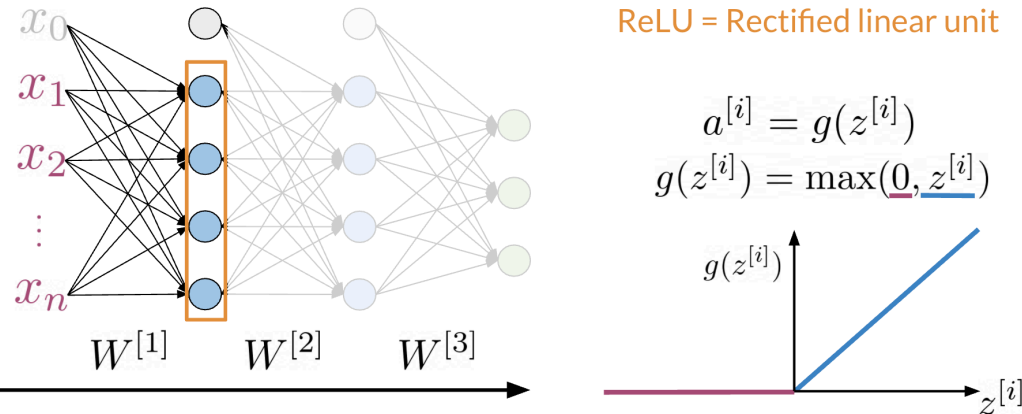
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Dense Layers and ReLU

The Dense layer is the computation of the inner product between a set of trainable weights (weight matrix) and an input vector. The visualization of the dense layer can be seen in the image below.



The orange box in the image above shows the dense layer. An activation layer is the set of blue nodes shown with the orange box in the image below. Concretely one of the most commonly used activation layers is the rectified linear unit (ReLU).



$ReLU(x)$ is defined as $\max(0, x)$ for any input x .

Mark as completed

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