OVERVIEW

Deep Learning Pre-Work

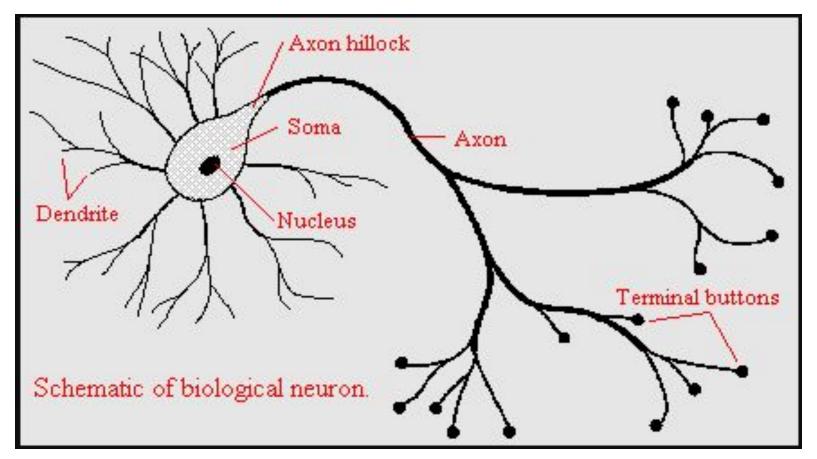


Agenda

- Introduction
- Use Cases
- Pre-work Overview

The Biological Neuron





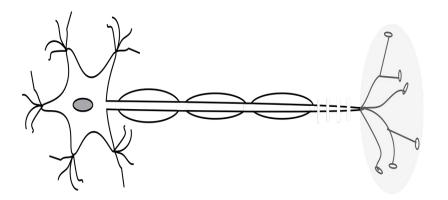
The Human Brain

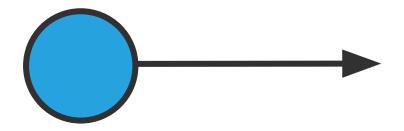




Biological vs Artificial Neurons

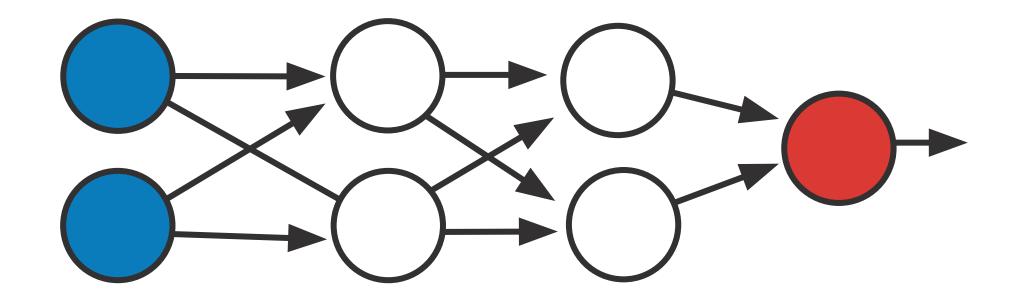






Deep Learning







Use Cases

Sephora



SEPHORA



Google DeepMind



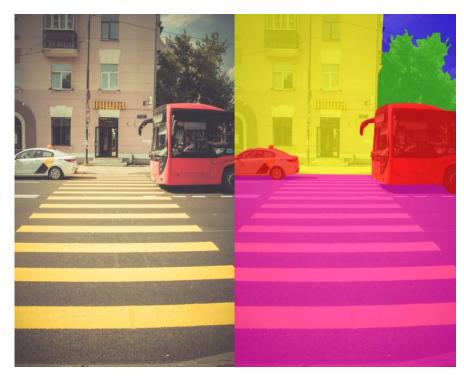




Tesla



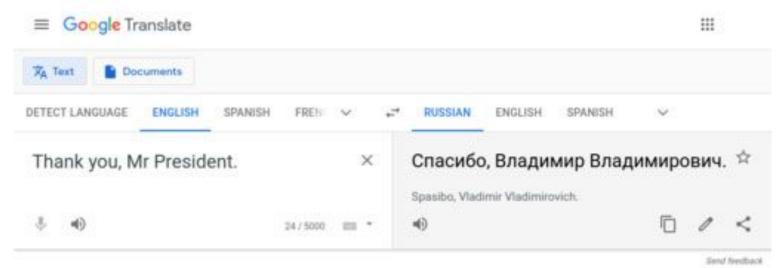




Google Translate





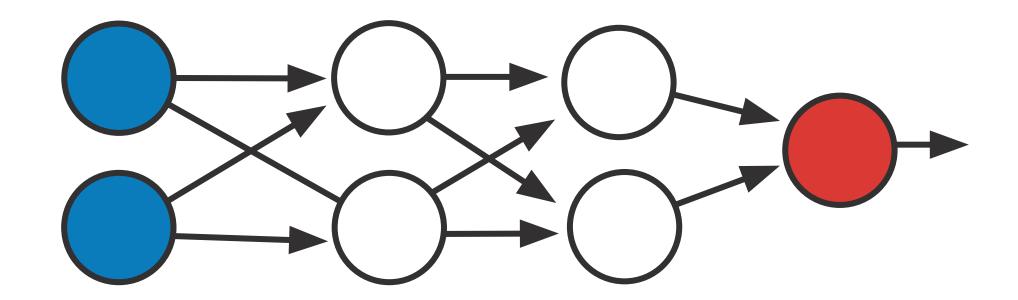




Pre-work Overview

Neurons and Layers



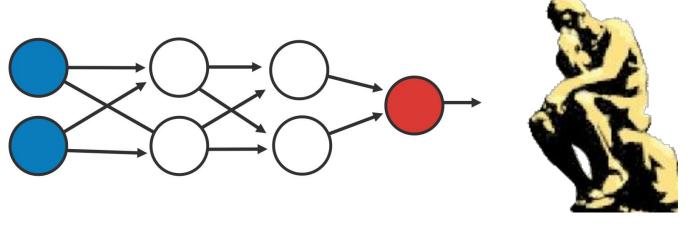




Machine Learning

$\begin{cases} x_{n} = x_{n} \\ y_{n} = x_$

Hyperparameter Selection



Source: Wikimedia Commons

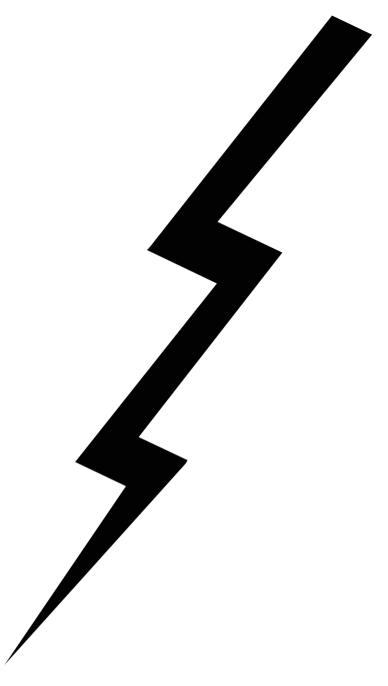
Source: Wikimedia Commons

What part of the architecture machine learning learns, and what hyperparameters can be controlled



Math





Code

