1 Week1

Introduction to Deep Learning.

- Week1. Introduction

- Week2. Basics of Neural Network programming

- Week3. One hidden layer Neural Networks

- Week4. Deep Neural Networks

1.1 What is a Neural Network?

1.2 Supervised Learning with Neural Networks

1.3 Why is Deep Learning taking off?

2 Week2

Basics of Neural Network Programming

2.1 Neural Network Notations

How do I write an equation in LaTeX?

- superscript (i) : i^{th} training example

- superscript (l) : l^{th} layer

- m: number of examples in the dataset

- n_x: input size

- n_y: output size

In 1902, Einstein created this equation: $E = mc^2$
And Newton came up with this one: $\sum F = ma$

$$5 + 5 = 10 \tag{1}$$

$$A = \frac{5\pi r^2}{2}$$
$$A = \frac{1}{2}\pi r^2 \tag{2}$$