Deep Learning Fundamentals

About This Course

Get a crash course on the what there is to learn and how to go about learning more. **Deep Learning** presents a simplified explanation of some of the hottest topics in data science today:

- What is Deep Learning?
- What are are convolutional neural networks?
- Why is deep learning so powerful and what can it be used for?
- Be part of a rapidly growing field in data science; there's no better time than now to get started with neural networks.

Course Syllabus

- **Module 1 - Deep Learning Concepts**
    1. What is a neural network?
    2. Why Deep Learning?
    3. How to choose between deep neural networks?
    4. An old problem: The Vanishing Gradient
    5. Restricted Boltzmann Machines
    6. Deep Belief Networks
- **Module 2 - Deep Learning Concepts Continued**
    1. Convolutional Networks
    2. Recurrent Nets
    3. Autoencoders
    4. Recursive Neural Tensor Nets
    5. Deep Learning Use Cases
- **Module 3 - Platforms for Deep Learning**
    1. What is a Deep Learning Platform?
    2. H2O.ai
    3. Dato GraphLab

- **Module 4 - Deep Learning Software Libraries**
    - What is a Deep Learning Library?
    - Theano
    - Deeplearning4j
    - Torch
    - Caffe