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## Learning Objectives

### Learning Objectives

#### In this course you will learn about:

- Exciting applications of deep learning and why it is really rewarding to learn how to leverage deep learning skills.
- Neural networks and how most of the deep learning algorithms are inspired by the way brain functions and the neurons process data.
- How neural networks feed data forward through the network.
- The gradient descent algorithm and how variables are optimized with respect to a defined function.
- Backpropagation and how neural networks learn and update their weights and biases.
- The vanishing gradient problem.
- Activation Functions.
- Deep learning libraries namely, Keras, PyTorch, and TensorFlow.
- Building a regression model using the Keras library.
- Building a classification model using the Keras library.
- The difference between the shallow and deep neural networks.
- Convolutional networks and how to build them using the Keras library.
- Recurrent Neural Networks.
- Autoencoders and how to build them using the Keras library.

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