

Module 22: Deep Neural Networks 1

Glossary

Batch Size

The number of samples that will be passed through to the network at one time

Dropout Rate

A technique that involves ignoring randomly selected neurons during training

Epoch

Consists of an entire dataset being passed forward and backward through the neural network only once

Keras

A high-level API of TensorFlow; an open-source library that provides an artificial neural network interface for Python

KerasTuner

A library for tuning the hyperparameters of a neural network that helps pick optimal hyperparameters in your neural network implement in TensorFlow

Layer

A general term that applies to a collection of 'nodes' operating together at a specific depth within a neural network

Node (or Neuron)

A place where computation happens, loosely patterned on a neuron in the human brain

Rectified Linear Unit (ReLU)

The number of samples that will be passed through to the network at one time

Regularization Rate

A number of techniques that reduce the complexity of a neural network model during training to reduce overfitting

Softmax Layer

The activation function in the output layer of neural network models that predicts a multinomial probability distribution

Tanh

A zero-centered activation function having a range between -1 to 1