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## 1. Unit 3 Overview

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## Overview



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- Implement a **feedforward neural networks** from scratch to perform image classification.
- Write down the gradient of the loss function with respect to the weight parameters using the backpropagation algorithm and use SGD to train neural networks.
- Understand that **Recurrent Neural Networks (RNNs)** and **long short-term memory (LSTM)** are used for sequence modeling and generating sequences.

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Implement a **Convolutional neural networks (CNNs)** with machine learning packages.

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