

# Optimizing Image Classification with Hyperparameter Tuning

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# Overview

**Building and training a CNN to work with multichannel input images**

**Important hyperparameters in CNNs**

**Choices of activation layer**

**Pooling layers**

**Convolution kernel size**

# Demo

**Perform image classification on the  
CIFAR-10 dataset using CNNs**

Demo

**Apply different activation layers**

Demo

**Apply different pooling functions**

# Demo

**Apply different convolution kernel sizes**

# Summary

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