*Neural Networks and Deep Learning* is a free online book.

By [Michael Nielsen](http://michaelnielsen.org/) / Dec 2019

Chapter 1

Using neural nets to recognize handwritten digits

28\*28=784 pixels

A picture containing computer

Description automatically generated

A screenshot of a cell phone

Description automatically generated A screenshot of a social media post

Description automatically generated  
  
  
A picture containing drawing

Description automatically generated­­­