



## HANDWRITTEN DIGIT CLASSIFIERS

### Why

Consider predicting which Arabic numeral is represented by a digital image.

### Definition

Consider a *training dataset* which consists of 28 by 28 grayscale images paired with an Arabic numeral (an element of the set  $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}$ ).



