

One idea: Can data help computers get smarter?

Consider the task of a computer recognizing a face in a picture



But say you have lots of facial pictures



1. Let the computer figure out which **patterns** are common across thousands or millions of faces (**training data**)
2. Remember those patterns (**model**)
3. When a new face picture (**test data**) comes, apply those patterns to check if it is a face. Output yes or no.

