

More domain knowledge

**Manually tailored
features**

**Representation
learning
(with informative
priors
/ good initial features)**

**classical
pattern recognition**

**deep
learning**

**A large pool of
potential features
+
robust classifiers/
feature selection**

**Representation
learning
(end-to-end)**

Less domain knowledge

**Less training
data**

**More training
data**

