

1.1 Explain in your own words what is meant by the statement a model generalizes well.

Models represent a behavior or pattern learned by using a training set of data. A model that generalizes well is one whose behavior remains consistent in ever-growing sets of data.

1.2 Briefly explain what inductive learning means.

Inductive learning is using instances in a training data set to generalize about the entire data universe. For example, a researcher studying a disease in dogs might use a training set consisting of a broad age and breed range of affected dogs. Based on the training set, a program can figure out rules for disease progress, onset, etc. This results in a model that can be applied to larger data sets.