

DATA MODELS

Why

A distribution/density selector picks a probabilistic model for a dataset by using the maximum likelihood principle. We want to generalize this idea.¹

1 Definition

An unsupervised data model is a function $\ell: \mathbb{R}^d \to \mathbb{R}$ where $\ell(x)$ is the suprise of the vector x.²

¹Future editions probably include a genetic approach, which moves through clustering and mixtures of Gaussians to illustrate the point more fully.

²Future editions will expand.

