1. What is the problem of under-fitting and over-fitting in pattern classification?

2. Does the size of the data set affect the over-fitting problem on a given model? Why?
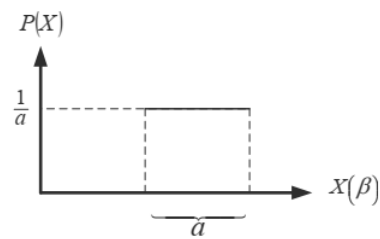

Figure 3.1: this is a figure demo

$$a_{ik} = f_{ik} * \log(N/n_k) \tag{3.1}$$