Lecture 16: Classification

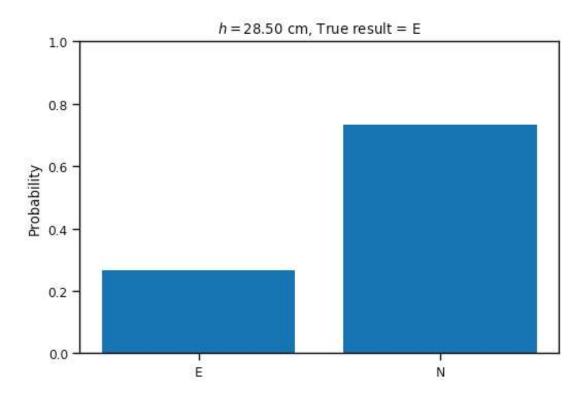
Professor Ilias Bilionis

Making decisions

picking one of the two labels



HMX Example

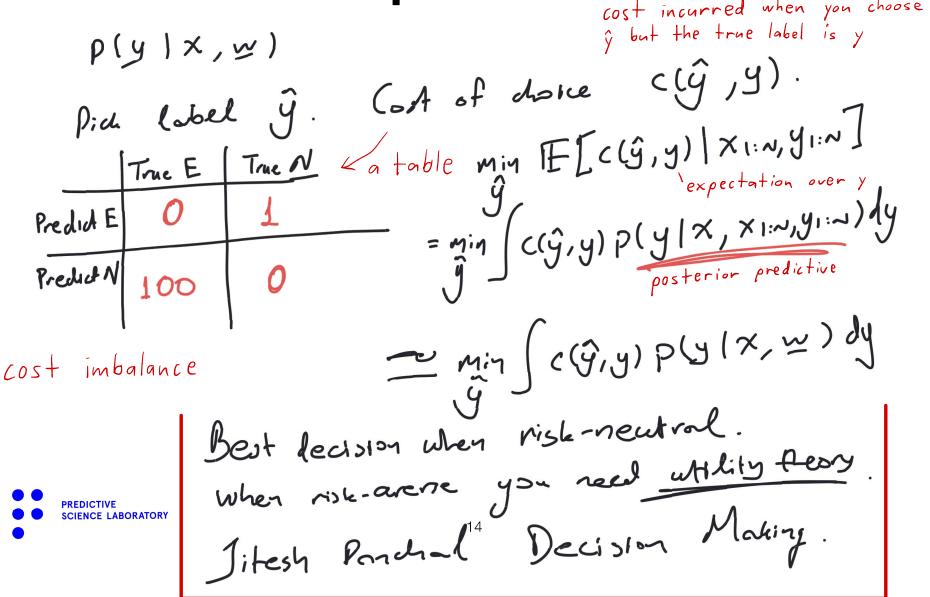


How do you pick a single label?

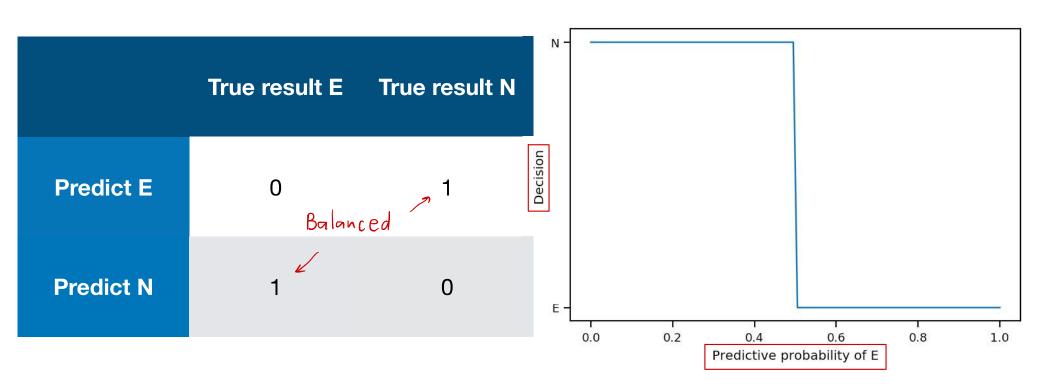
minimize the expected cost



Picking labels by minimizing the expected cost cost incurred when you choose ŷ but the true label is y



The cost of making wrong predictions





The cost of making wrong predictions

