

Lecture 16:

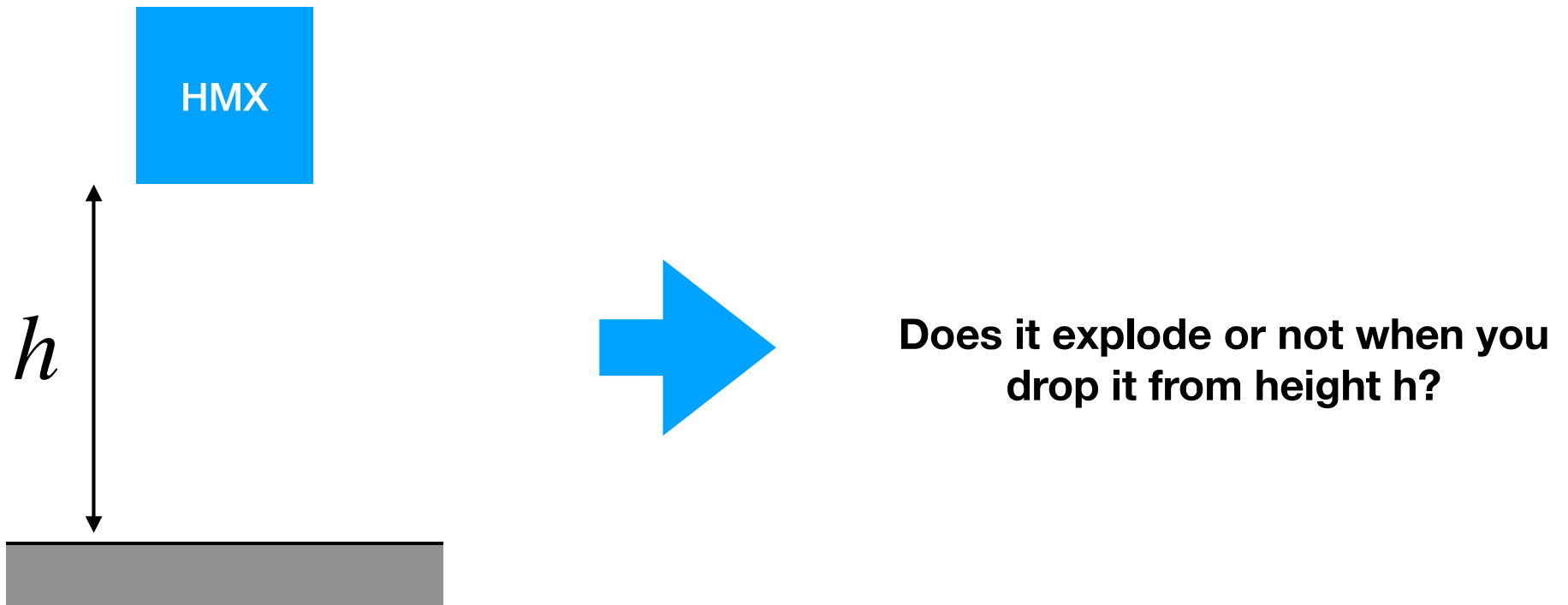
Classification

Professor Ilias Bilonis

Logistic regression with one variable

discrete

Example: Sensitivity of energetic materials



Experimental data

Height (cm)	Results
40.5	E E E E E E E E E E - explosion
36.0	E N E E E E N E E E
32.0	E E N E E E N E N E
28.5	N E N N E N N N E N
25.5	N N N N N N E N N N
22.5	N N N N N N N N N N - no explosion

*Data from L. Smith, "Los Alamos National Laboratory
explosives orientation course: Sensitivity and
sensitivity tests to impact, friction, spark and shock,"
Los Alamos National Lab, NM (USA), Tech. Rep.,
1987*