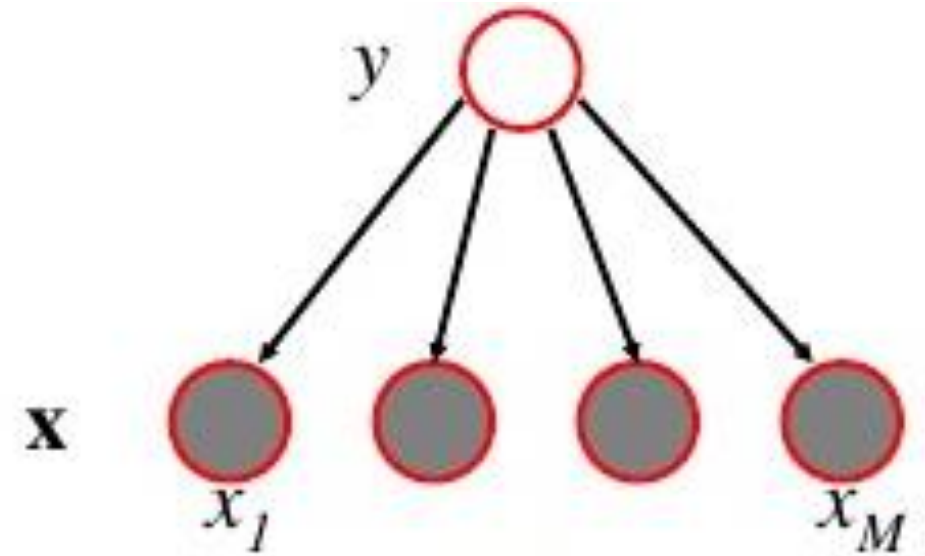




The Naïve Bayes Generative Model

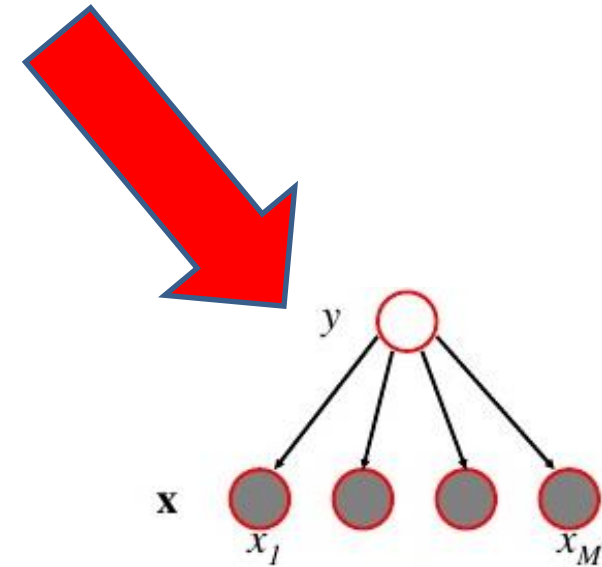
Alexander G. Ororbia II
Introduction to Machine Learning
CSCI-335
3/30/2026



Construction: Crafting a Naïve Bayes graphical model!

Class-Labeled Training Tuples from the *AllElectronics* Customer Database

<i>RID</i>	<i>age</i>	<i>income</i>	<i>student</i>	<i>credit_rating</i>	<i>Class: buys_computer</i>
1	youth	high	no	fair	no
2	youth	high	no	excellent	no
3	middle_aged	high	no	fair	yes
4	senior	medium	no	fair	yes
5	senior	low	yes	fair	yes
6	senior	low	yes	excellent	no
7	middle_aged	low	yes	excellent	yes
8	youth	medium	no	fair	no
9	youth	low	yes	fair	yes
10	senior	medium	yes	fair	yes
11	youth	medium	yes	excellent	yes
12	middle_aged	medium	no	excellent	yes
13	middle_aged	high	yes	fair	yes
14	senior	medium	no	excellent	no



Questions?

Deep robots!

Deep questions?!

