



Predicting Online Sales

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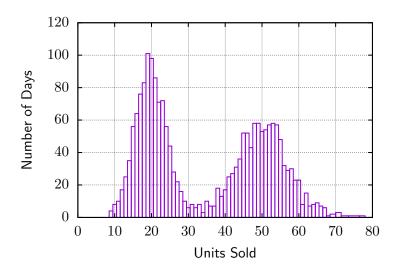
Motivation



- We have data of the number of online sales for 2000 days.
- Some days our competitors use additional marketing which effects our sales, but, we do not know which days.
- We model the distribution and use a computer to fit the model to the data.

Daily Sale Data





Model Solution





- Our competitors use additional marketing approximately 50% of the time.
- We sell an average of 50 units when they do not have additional marketing, and 20 units when they do.
- What if our data is more complicated?

More Complicated Data

