## Socratic dialogue: classifiers

- ♠ A classifier maps attributes to classes.
- Naive Bayesian Classifier (NBC): given attributes, calculating expected utility of choosing one class over another.
- NBC needs enough pre-classified attribute samples to work.
- Naive Credal Classifier (NCC): modification of NBC that requires less training samples, but often does not return a unique class.
- NCC designed for discrete attributes (uses IDM).

## Socratic dialogue: practicality IDM

- 1. Easy updating, because conjugate distributions are used.
- 2. Model parameters have a nice interpretation:
  - One is more or less the number of training samples.
  - The other, a summary of the relevant data in the training sample.
- 3. The optimization problems to compare classes are easily solvable.

## Socratic dialogue: Exponential families

- 1. Easy updating, because conjugate distributions are used.
- 2. Model parameters have a nice interpretation:
  - One is more or less the number of training samples.
  - The other, a summary of the relevant data in the training sample.
- 3. The optimization problems to compare classes are ???