0.1 Naive Bayes

Classify <single,light, one> with Naive Bayes given the following examples:

Healthy: * <single,dark,one>

* <single,light,two>

* <double, light, one>

Virulent: * <single,dark,two>

* <double,dark,one>

* <double,light,two>

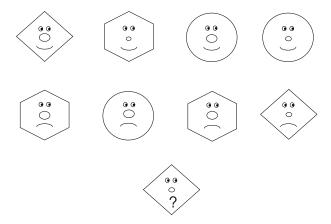
0.2 Text Classification

Classify the sentence "Cats eat mice and dogs bury bones." given the following two examples:

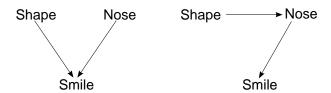
- Class A: "The cat crabs the curls off the stairs."
- Class B: "It's raining cats and dogs."

and given Voc = {Cat, Crab, Curl, Stairs, Rain, Dog}.

0.3 Bayesian Networks



- 1. Predict wether the last face is smiling or not using Naive Bayes.
- 2. Calculate all the probability tables for each of the Bayesian networks shown in the figure below according to the given examples-faces. Predict the class of the last face according to each of the networks.



3. Draw the Bayesian network that is equivalent to Naive Bayes.