**Lesson 09 Code Talk**

Describe simple Bayesian Networks from your life. How would you estimate conditional probability tables for them? (If you have problems describing them, just draw them on a piece of paper, take a photo and upload a picture.)

Bayesian Networks are widely used, examples of some applications for this tool are:

* Disease Diagnosis
* Optimized Web Search
* Spam Filtering
* Gene Regulatory Networks

One of its greatest features is the ability to update its answer based on new information, compared to a deterministic method (such as classic neural network). This thanks to the flexibility given by the probabilistic framework, which assume that whatever information we currently have (a priori distribution) can be updated provided new information to give a more representative answer of the current situation.