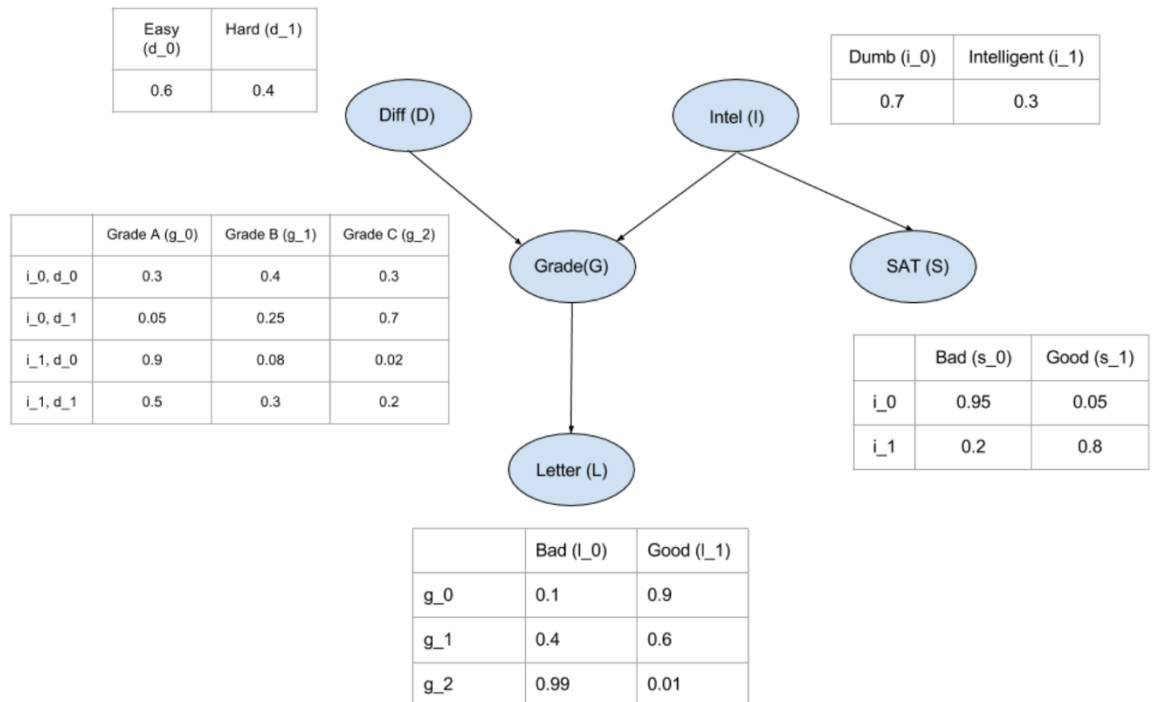


22MAT301 Probabilistic reasoning
Lab sheet 2 – Bayesian Networks

Link for pgmpy documentation & examples: <https://pgmpy.org/>

1. Install pgmpy Python library.
2. Define a Bayesian Network with the variables and conditional probability distributions as given in the following figure:



2a. After creating the CPD, print the same with the state names defined.

3. Get the local dependencies of the model variables and active trail nodes of D – those which are affected by a change in D.
4. Visualize the network using the commands in the package.