

ARTIFICIAL INTELLIGENCE ASSIGNMENT 2

GROUP 7

Nishant Shah, Rishi Khajuriwala, Mohamad El-Rifai, Ganesh Prasanna Balakrishnan

INSTRUCTIONS ON HOW TO RUN THE FILE:

- The file is called 'Gibbs.py' .
- Run the file using a command similar to “**python Gibbs.py price schools=good location=ugly -u 10000 -d 0**” . You may run the file using python 2 or python 3.

The above command would query the node size, given evidence location=ugly and schools=good. It would run 10000 iterations of gibbs sampling, and discard none of the observations. The output should be something like:

- $P(\text{price} = \text{cheap}) = 0.58$
 - $P(\text{price} = \text{ok}) = 0.34$
 - $P(\text{price} = \text{expensive}) = 0.08$
- The typical format for the command is:
`python Gibbs.py Query_node Evidence_node1=condition Evidence_node2=condition`
`-u no_of_iterations -d no_of_discard`