

Coursera class: Web Intelligence and Big Data (IIT, Delhi, India; Professor Gautam Shroff)

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This program is my solution to HW6.pdf, which defines a Bayesian Network used to diagnose the probability that a patient has tuberculosis, lung cancer, or bronchitis.

Program: bayesianNet.py

Set the features to either 'Y', 'N', or 'U'.

Run the program.

The output indicates the posterior probabilities that the patient has tuberculosis, lung cancer, and bronchitis.

The program is written in python and uses sqlite3 to store the given conditional and prior probabilities and to calculate the posterior probabilities.