

Artificial Intelligence Laboratory 3: Bayesian Network

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The code contains the solution of both Task.1 and Task.2 along with the extra credit solution.

Task 1:

- Used the 'bnlearn' library to construct the network make inference to find out the solution of the given tasks.'
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Task-2:

- Computed the Likelihood, posterior probability and inference with Näive Bayes.
- Implemented a Näive Byes Classifier and performed the classification on the Iris dataset (Extra credit task). Here 70% of Iris dataset are used for training and remaining 30% of data is used and estimated the label of the remaining 30% of the data using Näive algorithm. Here the mean square error between the prediction and actual label is 0.022.