

# Mini-project report

Martin Pettersson

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**Project:** Construction of Bayesian Networks from data. It can be tested with a Python 3.0 interpreter.

## **Implementation:**

I implemented a BayesNet class in Python with the following functionality:

It's able to

- Randomize a valid structure given the number of variables and causal links.
- Randomize all the parameters of the structure.
- Generate data from the structure + the parameters.
- Calculate  $\log(P(\text{Data} | \text{BN}))$  given a data-set.
- Calculate the Bayesian Information Criterion (used as the utility function), given a data-set.
- Estimate the parameters given a data-set.
- Do a hill-climbing local search for the best structure given a data-set.

Generally, since I didn't have any test data, I had to generate data from a given structure to have something to test it with. This process looked like this:

- Create an instance of the BayesNet class, with a specified number of variables and causal links. This will generate a random valid BN without cycles.
- Randomize the parameters.
- Generate some data from this structure (taking all the conditional probabilities into consideration).
- Create a new BayesNet with the same number of variables and do a local search for the best structure.

## **Specifics about the techniques I used:**

- For representing the BN-graph I used two types of adjacency-lists in parallel, one for getting the variables you have a causal link to, and one for getting your parents. This because I needed to get the parents for calculating the parameters etc and the other one for searching etc.
- For storing the adjacency-lists and the parameters, I used the built in Dictionary in Python.

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**Scott C. Dulebohn**



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## **Table of Contents How To Write A Mini Report**

1. Understanding the eBook How To Write A Mini Report
  - The Rise of Digital Reading How To Write A Mini Report
  - Advantages of eBooks Over Traditional Books
2. Identifying How To Write A Mini Report
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an How To Write A Mini Report
  - User-Friendly Interface
4. Exploring eBook Recommendations from How To Write A Mini Report

- Personalized Recommendations
- How To Write A Mini Report User Reviews and Ratings
- How To Write A Mini Report and Bestseller Lists
- 5. Accessing How To Write A Mini Report Free and Paid eBooks
  - How To Write A Mini Report Public Domain eBooks
  - How To Write A Mini Report eBook Subscription Services
  - How To Write A Mini Report Budget-Friendly Options
- 6. Navigating How To Write A Mini Report eBook Formats
  - ePub, PDF, MOBI, and More
  - How To Write A Mini Report Compatibility with Devices
  - How To Write A Mini Report Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of How To Write A Mini Report
  - Highlighting and Note-Taking How To Write A Mini Report
  - Interactive Elements How To Write A Mini Report
- 8. Staying Engaged with How To Write A Mini Report
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers How To Write A Mini Report
- 9. Balancing eBooks and Physical Books How To Write A Mini Report
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection How To Write A Mini Report
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine How To Write A Mini Report
  - Setting Reading Goals How To Write A Mini Report
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of How To Write A Mini Report

- Fact-Checking eBook Content of How To Write A Mini Report
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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