CSI661 – Data Mining: Assignment #2

Part A

Due: Thursday 05/07/03
Worth: 20% of Final Grade
Late Policy: You lose one full grade for each week (including partial weeks) you are late.

Read the instructions carefully.

Select one (1) of the extended list of concentration areas outlined on the web site. You cannot chose the same concentration area you worked on for assignment #1.

You will complete this assignment by yourself.

Areas #1 through #7
For both papers in the concentration area provide the following:

a) A one-sentence summary of the paper
b) An overview of the paper and its main points
c) The strengths of the paper
d) The weaknesses of the paper

Since you have been through the critiquing process once before, my expectations will be higher. The discussion of each paper should be approximately three pages. Each discussion should be concise. Make one point per paragraph. Start the paragraph with a topical statement. Write in the active not the passive. You may wish to refer to Strunk and White (http://www.bartleby.com/141/) to improve your writing structure skills. I expect the discussion to be well thought out and planned which will take time, so do not leave it till the last moment.

Areas #8

The second paper is background material on belief networks. Read the first paper to determine the use of Bayes theorem in association rule mining. Then read the second paper and suggest further ways of using Bayes theorem and belief networks in association mining. Submission is as above but the focus of the discussion must be the suggested research direction.

Area #9

The second paper is background material to address the issues raised in the first paper. Submission is as above but the focus of the discussion must be the suggested research direction.
Due: Part B): Monday 05/12/03
Worth: 20%
Late Policy: You lose one full grade for each week (including partial weeks) you are late.

Read the instructions carefully.

In Part A of this assignment you discussed the strengths and weaknesses of a concentration area.

Part B)
1. **Focus on a single previously discussed aspect of your critique.**
2. Discuss this item in greater detail than Part A) (2+ pages).
3. Describe a principled approach to improve upon the strength or weakness (3 pages).
4. Describe in detail the methodology your plan to use to verify the proposed improvement will work. Include details stating how you will conclude the improvement is significant. (2 pages).

Since you will not be empirically verifying your proposed enhancement your discussion must be particularly rigorous.