Data Mining Assignment 1

Identify a problem from your own experience that you think would be amenable to data mining. For that problem describe:

1. What the data is.

The data is about the Electricity consumption of my home.

2. What type of benefit you might hope to get from data mining.

By using data mining, I can analyse that which electrical machine consumes more energy and try to reduce its usage and replace some machines with alternatives.

3. What type of data mining (classification, clustering, etc.) you think would be relevant.

Association rule mining is more applicable because it is a method that attempts to observe commonly occurring patterns, similarities or dataset associations found in different types of databases such as relational databases and other repository forms.

4. Name one type of data mining that you think would not be relevant, and describe briefly why not.  
For each, illustrate with an example, e.g., if you think clustering is relevant, describe what you think a likely cluster might contain and what the real-world meaning would be.

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Regression will not be important and the analysis of regression is a valid way to evaluate which factors have an effect on a matter of interest. To define the relations between a series of independent and the dependent variables, we use regression analysis.