Writing the final report

Case study

Illustrative example

Implementation

Mathematical modeling

Literature review

Project definition

Brainstorming

Guidelines for BSc./MSc. projects

December 25, 2014

1. After the literature review, state what is your contribution with respect to the state of the art.

2. Start writing down your problem formulation, which assumptions are made, which results you expect to obtain, etc.

3. Think about courses/topics/methods that you particularly enjoyed during your education.

4. Decide which kind of project you would like to carry out (theoretical, more practical, about algorithms, using software, etc).

5. Write down 2-3 possible topics for your project, discuss them with your supervisor and decide which one fits better with your expectations, your knowledge and the time frame.

6. Why did you decide to do this study?

7. What is the scope of your study - a general problem, or something specific?

Once you have decided the topic of your project, you must write a more formal and detailed project description. To do so, it may be a good idea to answer the following questions:

- What is your main claim or argument?
- Once your code is working, think about an illustrative example as simplified as possible. Reduce, as much as possible, the number of generating units, time periods, scenarios, etc. while making sure that the main contribution of your work can be demonstrated using this small example.
- After the illustrative example, you can use it for a larger case study and provide realistic numbers, figures, conclusions, etc. to illustrate, as clear as possible, the main contribution of your research.
- But to show how the models work and why they yield different results. You can even make up the references therein and to the subsequent works citing that paper.
- Once your code is tested for the illustrative example, you use it for a larger case study and provide realistic numbers, figures, conclusions, etc. to illustrate, as clear as possible, the main contribution of your research.
- What is your main contribution and why should it be considered important?
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