Project report guidelines

The estimated amount of time you should spend on the project is between 20-30 hours (for pacing yourself, if you are interested in the subject you can spend more time). Your project should contain the following sections (the sample project is probably too long, but there is no required length as long as each section is detailed enough):

1. Introduction
   This should contain an overview of what problem you are solving and where it has applications. This should give an overall idea of the paper and discuss how you approach the problem in a general sense.

2. Related work
   What work are you building off? Cite the work you are using and give a brief description of how it has evolved (I do not care much about the formatting of this, but it should be enough to easily find it). Wikipedia is not a good source to cite, but its citations at the bottom (if they contain the correct work) would be valid. Another good source is scholar.google.com.

   This section should also talk about alternative approaches to the problem you are solving. For example, if you are doing facial recognition and solved it using algorithm A, briefly describe the other algorithms that can solve this problem and how they differ from yours. This section does not need to be terribly long, but do make some effort to see what else is out there (hopefully you did some of this when choosing how to solve your project in the first place).

3. Problem statement
   Describe your problem formally. This should introduce any notation you will use, your criteria for evaluation, the inputs to your algorithm and how you will approach the problem.

4. Algorithm statement
   This section should give the details of how you solved the problem. It should contain enough information for me to be able to replicate your results if I wished to.

5. Results
   Put your pretty pictures here. You should give some comparison of your method: either different configurations of the algorithm you are using or two different algorithms. Describe why you think one algorithm performs better on one criteria. The evaluation of the algorithm can focus on the more interesting aspects (it can be interesting if there is no large difference in approaches). The criteria you wish to evaluate on is up to you, but some examples are: running time, memory use or solution quality.

6. Conclusion
   Give a warp up. Describe what you found out about the algorithms and any questions you still have. You can also write a bit about if you had more time, what you would expand or do differently.