# Proposal Writing Guidelines

1. **Title of the project**: This should be concise and self-descriptive

2. **Problem Statement**
   The proposal should clearly identify the problem. It should include at least one or two carefully crafted paragraph that states and highlights the problem. The problem formulation should be able to answer following questions:

   a. What is the problem you are solving? This should also include the background for the problem.
   b. Why is it interesting as a Data Structure problem and who are the potential users?
   c. Your strategy to solve the problem

3. **Proposed Approach** to solve the problem. The description of the strategy should include,

   a. The algorithms/techniques/models you plan to use in this project.
   b. The framework you plan to use in this project.
   c. Please note that you are also required to produce software as the final output of this project.

4. **Functions targeted by your software**

5. Your proposal should include a software design to provide a more specific view of your project. A simple description of major functions should be enough for this section. As your development proceeds, this may be updated to reflect updates to these functions including additions, modifications, and removals.

6. **Evaluation Plan**: The proposal should include an evaluation plan including metrics that you will use to identify if you have succeeded or not. If you come up with a metric, also provide an intuitive feel for what this metric capture and why you think this is appropriate.

7. **Bibliography**. You must meaningfully cite all references in the report.

8. **Project timeline** (biweekly plan): You should provide a table with a weekly plan to complete the term project. If you have teammate, the plan should also include information about the respective roles.

9. **Submission of Final Report**