

Paper Structure (Guiding Principles)

Dr. Sifat Momen

The following is a simple structure (not necessarily in this order) that your manuscript should at least have. You **should use appropriate references** to support your statement/claims. The following is just a guideline – you may need to make further subsection to each section.

Abstract
Briefly describe the importance and purpose of the work, the methodology of it, notable experimental result obtained and the novelty of the work.
Introduction
The problem statement must be there. It must be clear the problem you are trying to address. Sometimes, it may happen that you are addressing a part of a bigger problem but the domain of the problem must be clear.
The importance of the problem should be stated.
Briefly explain how you plan to address the problem and how is it different from other techniques in the literature.
The goal/research hypothesis should be described.
The novelty of the paper should be stated. You must write the key contributions made in the paper (in points)
You should also mention how the rest of the paper is structured.
Literature Review
The related works must be clustered into different groups and must be explained in each group
There must be a table that should compare notable works. The table should also be described as text. This table can be used to find limitations of notable works which have been addressed in our work.
Methodology
You must provide a good figure that describes the steps taken in this work
Describe each step in sufficient details.
Describe different experiments you have decided to conduct. This should be in line of the initial goals that you have set.

Results
Describe the outcome of the results clearly using figures, tables and texts.
In case of figures, you may need to collage different diagrams in order to compare experimental results. This should be in line of what you want to achieve.
You may want to do different analyses of your results which may appear in different subsections e.g. you may want to apply explainable AI on the best model, you may investigate types of errors made by different models, you may want to investigate learning curves of some selected models.
Discussion
Discuss the outcomes of the work clearly and explain what it entails.
Compare this work with other notable works. It is important to be able to highlight our work over others.
Limitation
Provide some important challenges/limitation of the work (in points).
Conclusion
Summarize the entire work and conclude the key findings
Also provide future directions in this work.