README.md 10/20/2020

ECE1504 Projct

Potential Papers

- The Information Bottleneck Method
- Tightening Mutual Information Based Bounds on Generalization Error

Introduction

- Walk over the high-level ideas in the paper and inform the reader about what they emphasize on
- Highlight the key findings and aspects of the work
- Discuss the pros/cons at a very high-level

Related Work

- Throw light on the review carried out by the paper
- Emphasize on the pros/cons of previous works and how the paper has improved upon it
- Point out some of the open areas which the work discusses/touches upon
- Towards the end, discuss what could be improved from a literature point of view (more specifically highlight what has been done following the paper)

Method-1

- Discuss in detail the first method, its specifications, general discussions, comments, strengths, weaknesses, etc.
- This section should consist of all the goods and bads of the paper and proper reasoning as provided by the authors
- Inform the reader about something which is critical or novel, highlight if the authors missed something or a potential gap which arises
- Lay out potential problems (if any) with the approach or any scenarios in which it may not work well

Method-2

Exactly same as Method-1

Application Areas

- Have a broad discussion about the applictions, experiments, important findidngs of the work.
- Involve the reader into the goods and bads of the setup, its specifications, why is it essential from an application perspective.
- Lay out some possible areas of expansion or scenarios where the approach would work/perform better
- End the discussion by commenting upon the applicability of methods to practical settings (emphasize on how these translate to real life)

Conclusion

README.md 10/20/2020

- Wrap up with your own conclusion of the papers and their scope for future research
- ullet Do not forget to highlight the key pros/cons of the work
- Sum up theoretical guarantees, practical findings and the new directions