ANLY 535 Late Fall 2020

Course Project Instructions

The purpose of the project is to learn how to formulate a problem statement or research question, determine how to best find a solution to the stated problem or answer to the research question, do that and then develop a final written report and presentation. The project is team-based. Individual grades will include points for how well they contributed to the team effort.

The course project has three deliverables:

1. Project proposal
2. Project presentation
3. Final report

Each of these deliverables will be described in the paragraphs below.

Project proposal is due on January 10th 2021. Final presentations are due on last week of online class and final report based on the discussions on presentation day will be due by February 19th 2021 (noon).

Project proposal

For this part, it is required to write up one page of the project that you decide to work on. It should contain following information:

- Dataset used and its source
- Brief review of what other people have done on this dataset and how your work is different
- Methods that are going to be conducted
- Why are you choosing Deep learning rather than classical techniques?
- Responsibility of the teammates (to the best of your knowledge)

Final Project Report

The final report and presentation should cover virtually everything about the project. It should cover the situation, problem or challenge that required attention, the relevant background, related work, data, and technical details of the analysis, conclusions and possible directions for future work. It is recognized that not all of the following sections will pertain to each report. However, it is strongly recommended that these section topics be used as a guideline for your final project reports. Final presentations can follow your final report in text and graphical content.

- Introduction, motivation and general description of the situation, problem or challenge.

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- Introduction, motivation and general description of the situation, problem or challenge.
  - What is the situation, problem or challenge you are addressing?
  - What preliminary examination leads you to believe analytics could help?
  - What are the shortcomings of the current work/analysis that analytics could help with?
- Related work.
  - Provide a thorough background for the project; e.g. about the situation, problem or challenge, about other companies that have undergone similar situations, problems or challenges and how they handled them or did not, etc.
  - How does this project relate to other work that has been done on this situation, problem or challenge?
- Data
  - Give a complete description of the data you use during the project, including any you reject.
    - Provide a detailed description of your data.
    - Provide any exploratory data analyses you complete.
- Technical Approach
  - Give a detailed description of the process for your entire project.
  - Given a detailed description of your approach to the algorithm you have proposed. You do not have to describe well known approaches themselves, e.g. linear regression. You do have to describe how you applied the approach you used.
- Test and evaluation
  - Describe how you test your approach to ensure that it is valid.
  - Discuss the validity of your approach.
  - Describe how you will evaluate your results and/or conclusions including any specific metrics, output data, completed analyses, etc.
  - Discuss the baseline you will use to compare your results to.
  - Discuss how well your approach worked to address the situation or challenge, solve the problem or answer the research question.
  - Discuss any potential future work. For example, if you were not able to resolve the situation or problem or answer the research question what will it take to do so? What else needs to be done?
  - Evaluate and report whether or not someone unfamiliar with your work could accurately replicate it.
- Written work and Presentation Style
  - Written work will be graded using the rubric provided.

- o Presentation style will be graded on comprehensiveness and inclusiveness, as well as using the rubric provided.
- The final report should follow the guidelines provided by the IEEE at: https://www.ieee.org/conferences/publishing/templates.html

Assignment Project Exam Help

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