University of Windsor
Faculty of Science
School of Computer Science

COMP-8730
Natural Language Processing & Understanding
Winter 2022

#	Title	Due Date	Grade Release Date
3	**3MT**	Feb. 28, 2022, AoE	March 07, 2022, AoE

This course is research-oriented and project-driven in which a research project should be defined and completed in the field of NLP within one semester. The objectives of the research project are to provide graduate students with:

- An experience with research procedure, in general, and research in NLP, in particular.
- Hands-on experience with NLP.
- Advancing state of the art in NLP while passing a grad course.
- An opportunity to present a research outcome in an international computer science conference
- An opportunity to meet with scholars in the NLP community

In the research project, we propose a solution(s) to a problem by implementing an algorithm like a software project. However, there are differences in some respects. For instance, while a software project may implement an existing algorithm, a research project should propose and implement a *new* algorithm that improves or addresses a particular aspect of a problem that the current algorithms overlook. Roughly, a research project has the following milestones (phases):

1) Proposal
2) Literature Review
3) Proposed Method (Formal + Code)
4) Experiment (Evaluation)
5) Presentation (Paper + Talk)

In this course, a manual is prepared to guide the students through each milestone. The current manual is, however, about the progress report via a presentation and a talk for the first and second milestones and before starting implementation. Through this presentation and Q&A with the audience, we want to make sure that we are on the right track by receiving feedback.

Presentation

You're given 3 minutes talk (3MT), also called Elevator Pitch, followed by 2 minutes of Q&A. Your presentation should include the followings:

1) *What is this all about? What is the story?*
   You should not assume that the audience knows the technical terms and details of your research domain. At this part of your talk, you could assume that you are presenting to your family!

2) *Why should we stay and spend our precious time listening to your talk? Why should we care?*
   In this part, you should motivate the audience to stay because you're trying to solve an important/interesting/helpful/ … problem to human society!

3) *Who else tried to solve the problem in the past (old history if exist up to now)?*
   This part is basically the summary of your literature review. Is this a problem of today's modern society? Does your problem has a deeper root in history, and were there other *manual* methods to solve the problem? At this part, you have to explain the existing methods to your problem (if they existed) or similar problems. Please avoid telling us that the problem that you're trying to solve never existed and you're the one (the only one) the found this. We don't simply believe you! The history of science shows that problems are similar to each other in some respects.

4) *OK, why do you want to solve the problem that is already solved?!*
   In this part, you have to shine. You should tell us what gaps are in the existing methods and you want to fix which ones. The more gaps you could find, the better. Again, please avoid telling us that you want to fix all the gaps. We don't believe you! Be modest and just try to move the science gradually by taking small but firm steps. So, you could say that you want to fix one or two gaps.

5) *Can you explain your solution at a high level? We know that you have not started to solve it, but you have some idea to start. What are those?*
   In this part, you explain your thought roadmap to address the gaps or solve the problem. The details of the method are not important here because there are no details yet!

Submission Guidelines

- The submission includes presentation slides and the talk.
- The talk should be delivered in class before the other classmates on the due date mentioned above.
- The talk is limited to 1 slide!
- The presentation slide must be submitted to Blackboard in a pdf file, named COMP8730_Presentation_I_UWinId1_UWindId2.pdf

Marking Guidelines

Your talk will be marked based on its average ranking by the audience and the instructor.