

Course project proposal

The written proposal will be submitted to the Final Project assignment on canvas by **the end of week 8 Friday midnight**. (generally 2-4 pages) When you submit, **please name the file as GROUP X proposal** where X is your group.

There are two options:

1. Structured Literature Survey:

- Group number X will work on topics discussed in Module X:
- You will study recently (preferably last 5 years) published, well-cited, interesting research papers. (use sources like arxiv.org, paperswithcode.com)
- Provide a tentative list of papers as proposal. Explain why you chose a paper.
- **A specimen paper** (<https://northeastern.instructure.com/courses/192299/files/28993558?wrap=1>)
↓ (https://northeastern.instructure.com/courses/192299/files/28993558/download?download_frd=1)

2. Implementation: Your group will choose a problem, dataset, implement solution, evaluate and characterize your solution (ablation study).

• **Proposal structure**

- Basic idea: Introduce the problem your group wants to solve.
- Approach to solution: Algorithms, regularization techniques,
- Related work: recent research (2 papers)
- Assessment methodology: Performance evaluation measures, cross validation strategy, and ablation settings.
 - Ablation is changing the data (inputs dimensions), pre-processing, algorithm complexity and observing the effect on performance to assess ranking of every change in terms of its impact on final performance.