Advanced Topics in Machine Learning

CSCI 8000

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CSCI 8000: Advanced Topics in Machine Learning

Course Project

August 30, 2018
Grading Breakdown

• Class participation (15%)

• Paper Review (15%)

• Paper Presentation (25%)

• Final Project (45%)
  • Proposal & Presentation (10%)
  • Update (5%)
  • Final Presentation (15%)
  • Final Report (15%)
Course Project

• Individual or group (no more than three students) research project

• Can be on any topic related to the course

• Tentative timeline
  • Sep. 25 – Sep. 27: Project proposal presentation
  • Nov. 07: Project status update
  • Nov. 27 – Nov. 29: Final project presentation
  • Dec. 6: Final project report due
Project Proposal

• ~15 Page Slides (Due: Sep. 21)
  • Individual or team (shall not be changed after Sep. 21)
  • Topic and Motivation (Which ML problem? Why?)
  • Literature Review (briefly review existing works on this topic)
  • Problem Definition
  • Proposed Solution
  • Technical Plan (Which library/toolbox?)
  • Data & Evaluation Plan (Which datasets? Which metrics? ...)
  • Timeline

• Sep. 25 – Sep. 27: Project proposal presentation

• Nov. 07: Project Status Update
Final Presentation

• ~20 Page Slides (Due: Nov. 27)
  • Topic and Motivation
  • Related Works
  • Problem Definition
  • Proposed Solution / Methodology / Algorithm / Optimization ...
  • Experiments
  • Conclusions
  • Learned Lessons & Discussions
Final Report

- Final Project Report (Due: Dec. 06)
  - Single column, **8 Pages**
  - Templates (e.g., NIPS format if you’re using LaTeX)
  - The high-quality reports might be converted into *paper submissions* for future ML venues
    - Dec. 10, NAACL 2019
    - Feb. 25, IJCAI 2019
    - Early Feb., ICML 2019
    - Early Feb., KDD 2019
    - Mid Feb., ACL 2019