

Due Date: November 15th, 2023 11 am

Purpose: To submit an official project proposal that

- 1) Gives an introduction to the problem your group is attempting to solve with deep learning for the final project (with references and citation to current literature)
- 2) Outlines your expectations for the solution design and limitations
- 3) Expands upon subsequent impact of your solution.

Instructions:

- 1) Communicate with other students to form a team.
- 2) Designate a team captain who will be in charge of SUBMITTING ALL FINAL PROJECT MATERIAL ON THEIR CANVAS ACCOUNT (proposal, poster, write-up, etc).
- 3) Have your team captain fill out the team survey to designate who are your teammates and who is the team captain
 - a) Link: <https://forms.gle/R6vEv1ubTTPx4Zuj8>
- 4) Use "ELEC_COMP_576_Fall_2023_Project_Proposal_Instructions_and_Rubric" document to help write your project proposal (in this document there is a link to example submissions from previous semesters):
 - a) Link: https://docs.google.com/document/d/1v7-xbuUCHP_NI4VpVz6EE6OZSyiqdul7P2Zu2XYYZs4/edit?usp=sharing
- 5) Have the team captain submit your project proposal AS A PDF on canvas before due date

Overall requirements:

- 1) 1 page minimum, 4 page maximum
- 2) References must be included
- 3) Submission must be a pdf

Rubric:

- 1) One team member has submitted the team member names in the google form (5 pts):
 - a) <https://forms.gle/VHFmbK4vnB19FDJh6>
- 2) Sections in write up:
 - a) Abstract (10 pts)
 - b) Background/Motivation (30 pts)
 - i) Is the problem clearly stated
 - ii) is background information provided so the problem can be understood even by those outside of the deep learning community

- iii) Is this problem not previously solved (should have references to previous work showing this)
- iv) is the importance of solving this problem communicated
- v) Is the problem related to a novel application of deep learning
- c) Proposed Experimentation/Implementation (30 pts):
 - i) Is the dataset to be used clearly described (and explained how will be obtained if not publicly available)
 - ii) What are the Design requirements identified
 - iii) What are initial plans for architectures, designs, etc
 - iv) what is the step by step process of how the project will be accomplished and measures of success for each stage
 - v) What is the breakdown of which team member will be doing what tasks
- d) Feasibility and Limitation (10 pts)
 - i) explain your projects endpoint goal in terms of why you stopped there because of limitations, time etc.
 - ii) Explain potential challenges you might encounter during the project, and initial solutions to these problems
 - iii) Explain what limitations you don't yet fully understand and where you'll need to do more investigation to explore if they will limit your project
- e) Potential Impact (10 pts)
 - i) How will the solution to this problem impact other fields, lead to other developments?
- f) References (5 pts)

Examples Project Submissions:

<https://drive.google.com/drive/folders/15OPd5LnAtkMsxubHvkjeUTeU2doRKHMg?usp=sharing>