The pu	irpose of the project proposal is to demonstrate that your team:
	knows what the goals and motivations for your project are.
	knows what dataset you will use to train your model.
	has a rough idea of the type of neural network(s) you will use.
	has a rough idea of the related work that you can build on.
	has a reasonable idea of how you will measure success of your model, and your project.
	has a clear idea of how you will work together, and how to distribute the work fairly.
The do	ocument has a word limit of maximum of 1400 words, but you really shouldn't need to us

The document has a word limit of maximum of 1400 words, but you really shouldn't need to use all of them. A concisely-written document is preferred.

The document has a word limit of maximum of 1400 words. However, a concisely-written document is preferred. The word limit is hard: There is a 1% penalty for every word in excess of the 1400 limit. **Please count the words in your document, compute the penalty, and put it on the front page.** These are not included in the word count, nor are figures or references.

How to submit

Submit your proposal **as a group** on Quercus by February 12, 23:59pm.

There is a penalty-free grace period of one hour past the deadline. Any work that is submitted between 1 hour and 24 hours past the deadline will receive a 20% grade deduction. No other late work is accepted. Quercus submission time will be used, not your local computer time or any other screenshots that you provide. You can submit your work as many times as you want before the deadline, so please submit often and early.

Proposal Rubric

The project proposal document is graded out of 40 points.

Introduction (4 points):

A brief description of the motivations behind your project, the goal of your project, why it is interesting or important, and why machine learning is a reasonable approach.

4/4 An introduction that clearly describes the project goal, why the project is interesting and/or useful, and convincingly describes why machine learning is an appropriate tool for the task.
3/4 The introduction describes the project, but does not "sell" it well or get to the point

quickly, contains overly vague phrases, or minor factually incorrect information.

	2/4 The introduction is vague, does not sufficiently convince the reader that the project is useful, and/or that the machine learning is an appropriate tool to use.
	1/4 The introduction does not make it clear what the specific goal of your project is.
Illustr	ation / Figure (4 points):
make y For the Power!	re or a diagram that illustrates the overall model or idea of your project. The idea is to your report more accessible, especially to readers who are starting by skimming your work. It project proposal, taking a picture of a hand-drawn diagram is fine, as long as it's legible. Point is another option. You will not be penalized for hand-drawn illustrations - you are not the design and illustrative power
	4/4 A well thought-out figure that communicates the core idea of your project and architecture immediately.
	3/4 An illustration that does the job, but could use some minor improvements.
	2/4 An illustration that does the job, but is not particularly clear, or too wordy.
	1/4 The illustration is significantly lacking in some respect, or contain factual inconsistencies or inaccuracies.
Backg	round & Related Work (4 points)
	eription of 1-2 related work in the field, to provide reader a sense of what has already been in this area, e.g. papers or existing products/software that do a related thing.
	4/4 Briefly describes 1-2 prior work related to your project to put your project into context. Your descriptions need not be complete, but should contain important work related to the project.
	3/4 Background that has minor omissions or factual incorrectness, but otherwise places your project into context.
	2/4 Background contains too much information not related to your project, or has major omissions of content on related work done in the field.
	1/4 Background that does not sufficiently put your project into context.
Data I	Processing (4 points)
to colle	eription of the sources of your data. We are looking for some effort and evidence of work ect/repurpose/clean training data vs. simply taking a known dataset. The extent of data sing may vary from project to project and we will grade you according to your project.
	4/4 Clearly describes and cites sources of data, and the steps you will take to clean and format your data. The descriptions are clear enough for another classmate to follow and reproduce.

	3/4 Mostly clear description, but some aspects of the data processing steps are vague enough so someone attempting to reproduce your project might do something different enough to possibly affect model goal or performance.
	2/4 Mostly clear description, but aspects of the data processing step are incomplete.
	1/4 Descriptions are unclear and minimal information is provided on the dataset or proposed preprocessing steps.
Archit	tecture (2 points)
CNN, choice	gh description of the type(s) of neural network models that you will use: for example RNN etc. You won't know all the information about number of layers and hyperparameter s at this point, so it is okay for the description to be rough. However, you should provide h details so another classmate could potentially take over your project.
	2/2 Rough description of the type(s) of neural network model(s) that you will use, and the relevant components.
	1/2 Some issues with the description (inconsistencies, factual inaccuracies)
	0/2 Unclear description of the type(s) of neural network model that you will use, or a choice that is inconsistent with your problem.
Baseli	ne Model (2 points)
be a si model	be a simple, baseline model that you will compare your neural network against. This can imple machine learning model (i.e. SVM, Random Forests, etc.), a hand-coded heuristic (that does not use machine learning), or something else. Expectations for baseline model ary from project to project.
	2/2 A reasonable choice of baseline, accompanied by a description of the baseline so that a knowledgeable classmate can either find or reproduce.
	1/2 A description of a reasonable baseline, but not enough detail to reproduce a version that would perform similarly.
	0/2 Poor choice of baseline inconsistent with the problem.
Ethica	al Considerations (2 points)
	ption of a use of the system that could give rise to ethical issues. Are there limitations to nodel? Your training data?
	2/2 Thoughtful consideration of ethical issues in data collection, and the impact of using the model.
	1/2 Some consideration of ethical issues in data collection.
	0/2 Ethical issues in data collection are not presented

Project Plan (4 points)

Provide a table summarizing the tasks each person is responsible for and has accomplished so far, along with clear deadlines for each member. Describe how your team will work together. When will you meet? How will you communicate with each other? How will you ensure that you won't overwrite each other's code? Divide up the tasks and set deadlines for yourselves.

	4/4 Plan provides enough detail about the breakdown of tasks, internal deadlines, and team member responsibilities so that a new team member can replace an existing one and know roughly what their responsibilities are. Work is divided evenly amongst team members.
	3/4 Plan lists the breakdown of tasks, internal deadlines, and team member responsibilities, but could provide more clarity on some member's responsibilities.
	2/4 Plan lists the breakdown of tasks, internal deadlines, and team member responsibilities. Work is not divided evenly amongst team members or team member's responsibilities are not clearly defined.
	1/4 Plan misses important tasks, or has timelines that are obviously impractical (e.g. setting aside only 1 day for hyperparameter tuning)
k R	Register (4 points)

Risk

Document 3-5 major/likely risks of the project, the likelihood of the risk, and what your team would do in the situation. For example, what would you do if a team member decides to drop the course? What would you do if your model training takes longer than expected? Not all risks make sense for each project, so think about risks involved with *your* project.

4/4 A thorough analysis of the major risks, and their solutions. The risks are well aligned to the proposed project.
3/4 A thorough analysis of the major risks, and their solutions. Some risks are not aligned or don't make sense for the proposed project.
2/4 Good analysis, but with possible omission of serious risks.
1/4 Major miscalibration of risks.

Link to Github or Colab Notebook (1 point)

You are expected to store all your code in either a public Colab notebook or a Github repository. If your team is uncomfortable with having your code public, please speak to your instructor prior to the deadline. If you use a Github repository, you have the option of writing your final report as a Github README.

	1/1	Includes	link to	public	Colab	notebook	or public	github	repo.
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□ 0/1 Omitted.
References (1 point)
References should be in the IEEE documentation style, described here: https://ieee-dataport.org/sites/default/file
□ 1/1 At least 2 references, formatted consistently using the IEEE format.
□ 0/1 References are omitted or inconsistent (e.g. some uses first names, other uses initials)
Structure, Grammar & Mechanics (8 points)
We are looking for a document that is easy to follow, grammatically correct, and well-written.
□ 8/8 Clear, concise and well-written document. Exceeds expectations.
☐ 6/8 Well-written document that has some issues with grammar, mechanics, or structure. Meets expectations.
□ 4/8 Reasonably-written document with grammar, mechanics, or structural issues.
□ 2/8 Document has many issues.