

Project proposal

1. What are the names and NetIDs of all your team members?

Team members:

- **Claire Brekken (brekken2) - Captain**
- **YiZi Xiao (yizix2)**

2. Which competition do you plan to join?

We plan to join the text classification competition.

3. If you choose the classification competition, are you prepared to learn state-of-the-art neural network classifiers? Name some neural classifiers and deep learning frameworks that you may have heard of. Describe any relevant prior experience with such methods

Yes we are prepared to learn the state-of-the-art neural network classifiers.

The classifiers we have heard of and plan to explore are:

- **Logistic regression classifier**
- **Deep neural network classifier (DNN)**
- **Recurrent neural network classifiers**
- **LSTM models**
- **Convolutional neural network classifiers (CNN)**

Relevant experiences:

- **Logistic regression model to detect seizures in EEG data (medical device application)**
- **Logistic regression to predict likelihood of orders happening in the future (supply chain/logistics application)**
- **DNN for classify respiratory sounds (medical device application)**
- **DNN for estimated time of arrival (supply chain/logistics application)**
- **CNN for handwritten and image recognition (school work)**

4. Which programming language do you plan to use?

We plan to use Python.