

1. What are the names and NetIDs of all your team members? Who is the captain? The captain will have more administrative duties than team members.

I am doing this project individually. So, I am the captain 😊.

Full name: Antonio Gomez Lopez, NETID: aag8

2. Which competition do you plan to join?

Text Classification (Sarcasm detection on Twitter).

3. If you choose the IR competition, are you prepared to learn state-of-the-art IR methods like query expansion, feedback, rank fusion, learning to rank, etc.? Name some more concrete methods or tools that you may have heard of. 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:

I am prepared to learn state-of-the-art neural network classifiers.

I am interested in this challenge because I can see the difficulty for a non-human to discern from the literal to intended meaning of the words.

Prior Experience:

I have taken two Machine Learning courses (one in UT Austin, the other one currently in UIUC), in which I have implemented versions of the following (as part of projects):

- a. Perceptron Algorithm
- b. Logistic Regression (which is not quite useful for the classification issue but still).
- c. Support Vector Machine
- d. Naïve Bayes

I also studied the theory for K-Nearest neighbor, but never implemented it.

In addition to this, I took a Reinforcement Learning class at UT Austin, and in it, as part of our practical experience, we had the choice to work with either TensorFlow or PyTorch in order to implement policy evaluation using Neural Networks, as well as the REINFORCE algorithm. I implemented both successfully using TensorFlow (which is the one framework with which I have experience).

4. Which programming language do you plan to use?

Python