CHKR: Fact Checking Project Proposal Alex Weinstein

- 1. The problem I want to solve is that people often don't know or understand whether what they read in social media is or is not a fact. I want to create a service where people can log into their social media accounts and have the option to fact check everything they see. I think this is an interesting problem because it helps people better understands the world around them and can even help combat fake news.
- 2. I am going to use open source databases that verify facts in a ranked way as well as fake news and verified news datasets. I am also going to reach out to a Fake News challenge and a fact extraction workshop
 - a. https://competitions.codalab.org/competitions/21163
 - b. https://figshare.com/articles/PHEME_dataset_for_Rumour_Detection_and_Ve-racity_Classification/6392078
 - c. https://www.kaggle.com/mrisdal/fake-news
 - d. https://github.com/thiagorainmaker77/liar_dataset
 - e. http://www.fakenewschallenge.org/
 - f. https://fever.ai/

3. Overview:

- a. This is a supervised problem because we can provide solution data (fact/fiction tags) for our inputs (social media statuses articles in links).
- b. This is can be approached as either a classification or regression problem because the output tag is a binary classification (fact/fiction)
- c. I am trying to predict whether a given social media status or news article includes facts or fictions (can have a mix of both)
- d. I will use social media statuses and their linked articles for my inputs (predictors)
- e. I am apt to use both ML and DL. I've read that transformers might be particularly useful
- 4. My final product will be a web API with a mobile app called CHKR, possibly with a chrome extension as well
- 5. Resources:
 - a. CPU 8-16 cores
 - b. Memory 50GB
 - c. Specialized hardware 200 hours on a medium GPU box