



Some references:

neural conversation modeling <http://arxiv.org/pdf/1506.05869v1.pdf>

Facebook messenger API built-in NLP <https://wit.ai/faq>

Stanford SNAP Counseling Project: <http://snap.stanford.edu>

SNAP blog “tricks to successful counseling” <http://nlp.stanford.edu/blog/how-to-help-someone-feel-better-nlp-for-mental-health/>

CrisisTextLine Data Application: <http://www.crisistextline.org/open-data/application/?submit=Application+Guidelines>

Possible data inputs (parameters) <https://docs.google.com/spreadsheets/d/1nqUSJk-lxRx3ofth1auaFXTT7Eh0Qfrs4qe49Ptvq2c/edit#gid=0>

Foreseeable tasks so far:

Data Processing:

1. Become familiar with Git, bash, & command line utilities in Python/C (current coursework)
2. Build parser for message-level semantic analysis —> how to link to LSTM

Output:

3. Create Synonym Net
4. LSTM model for normal unstructured conversations
5. Create retrieval model (grab content from data/case studies)
6. Research on more clinical therapy methods

Training:

Find participants...

Platform:

1. Research on potential API's to use
2. How to incorporate into API?

Some Problems:

1. I cannot access the data directly - must have some form of secondary assistance from approved researchers
2. How will we determine the stage of the conversation/therapy process
3. ^ How will we structure the conversation/therapy session?
4. Generative models experience more grammatical errors -> this strongly impacts user retention
5. Wit.ai makes app open-source — therefore making the data accessible for public