

Play with  
1. Word Embeddings.  
2. Sentence embeddings

} Data preprocess  
& representation (1)

3. VRNN's (All)

4. Auto Encoder - Decoder systems (Attention?) } model  
architecture & algorithms (2)

5. Knowledge Representation (Memory Networks)  $\Rightarrow$  (1) + (2)

Current works & lit survey to do.

① Read abstraction techniques - Sharan (Oct 1)

② Read about word & sentence embeddings - Nidhi (Oct 2)

③ Read about model architectures used - Sharan (Oct 2)

④ Read about algorithms used for - Nithish & Nidhi  
\* topic modelling & paraphrase matching. (Oct 2)

⑤ Read about memory networks & NTM. (FB) - Nithish (Oct 2)

⑥ Read about openAI's work & their fallbacks. - Sharan & Nidhi (Oct 3)

⑦ Read about Stanford's NLP work in RC & QA. - Nithish & Nidhi (Oct 3)