Aim: To discuss the chosen datasets, as well as the literature survey and project plan

Project Plan

Reconsider the title: which do you think is the most suitable?
Current Title: An analysis of machine learning and deep learning techniques for the detection of sarcasm in text

Alternatives:

- Applying machine learning and deep learning techniques to the detection of sarcasm in text
- 2. An analysis of machine learning and deep learning techniques for the detection of sarcasm in text
- 3. An analysis of deep-learning based classifiers in the domain of sarcasm detection in text
- 4. Detecting sarcasm in text using machine learning and deep learning techniques
- 5. A comparative study of machine learning and deep learning approaches to sarcasm detection in text
- 2. Have I included enough in the **preliminary preparations** section
- 2. Do you think I have comprehensively described why this domain is difficult
 - 1. Do you think any terms are missing from the definitions section?
 - 2. In citing a definition of a word, how can I cite a definition taken from one line in an academic paper, especially if I am already citing other areas of the paper

Are you allowed to say e.g. in academic writing

- Yes, it is allowed

Literature Survey: Questions

Theme 2.1: Text Vectorization

- Check the use of technical vocabulary, am I using it in the correct context
- I am having difficulty sourcing the paper that first contains Bag of words and Bag of N-grams, how can I cite this?
- Is the paragraph on Bag of Words and bag of N-grams even relevant?
- I would like to present an alternative paragraph on Word2Vec vs GloVe, do you think this is better? I.e. is the original paragraph too long

- Am I right to italicize new concepts being introduced e.g. Word2Vec
- Do the paragraphs look ok, for example the use of new line and indent
- How can I cite the dictionary for the first reference

Key Points

- SpaCY is the best library
- Need to fully describe why sarcasm detection is a problem, messy datasets #sarcasm, why is it difficult to detect, comparison with humour, irony etc and the misunderstanding of sarcasm by humans
- Goal is to design a customised approach for this difficult problem, e.g. to highlight the negations / contradictions in sarcasm
- Bert can be used by itself and fine tuned, shows that language models themselves can be fine tuned because they are so powerful

For next week:

- Evaluating datasets (providing summary and stats) Statistical summary, how many samples, topics etc
- Use topic modelling (Topic modelling for term frequencies (LDA))
- Topics are probability distribution for different words (wordcloud)
- Refer to Noura's email on topic modelling
- Python package called word cloud
- Modify the project plan to include Gantt chart