**F21AA Applied Text Analytics: Coursework 2**

**Handed Out:** Monday 24th February 2020.

**Work organisation:** group work,in groups of 3-4 students.

**What must be submitted:** A report of 5-6 pages (1500 words) of A4 and a group presentation.

**Report Submission date: By Saturday 10th May 2020 -- via Vision**

**Group Presentation will be scheduled Monday April 13th, 20th, 27th or May 4th or 11th**

**Worth**: 20% of the marks for the module**.**

**Objectives:**

Deep Learning has advanced several Natural Language applications like machine translation, sentiment analysis and language generation. In this coursework you will research and present an application of deep learning in the field of NLP.

In particular you are required to:

* research an assigned topic for using Deep Learning in NLP
* read 3-4 scientific papers on that topic and provide a technical report that summarizes your main findings
* present this topic in class outlining the main motivations, objectives, methodologies and contributions

**Topics for DL in NLP: (*include but are not limited to)***

1. Learning word embeddings
2. Sentiment analysis
3. Machine translation
4. Image caption generation
5. Conversational Language Understanding
6. Spoken and Text-Based Dialog Systems
7. Lexical Analysis and Parsing
8. Question Answering
9. Social Computing
10. Futures and Trends of DL & NLP

You will be assigned a topic for research and presentation and you will be given a set of suggested readings to start your review.

**Research Report: (10%)**

Your research report should summarize the topic in 5-6 pages (1500 words) presenting clearly the motivations and challenges of this topic.

Your report is expected to:

* be well structured (i.e. divided into sections like, Abstract, Introduction, Models, Experiments, Evaluation and Conclusions)
* be written in clear and professional language
* show deep understanding of the topic and include useful insights and analysis
* include well-chosen and well referenced literature (3-4 scientific papers)

**Presentation: (10%)**

You should prepare a 20-25 minutes presentation of your topic to present in class. One group member can present but all other members need to be present. Your PowerPoint presentation needs to be submitted to vision.

Your presentation will be evaluated according to the following criteria:

* Content should be well structured and should provide a clear and understandable message
* Presenter should show deep understanding of the topic and provide useful insights and analysis
* Presentation should include proper use of media and visual aid (avoid crowded text)
* professionalism (i.e. personal energy, engaging with audience, timekeeping)
* providing reference/attribute to any literature used

**What to Submit**

You will submit:

1. A report of 5-6 pages (11 pt font, margins 2cm on all sides/ 1500 words) documenting and discussing your research topic (10%)
2. A PowerPoint presentation that you will be presenting in class (10%)

**Marking**: See detailed marking Rubric on Vision for both presentation and report. Maximum points possible: 100 in each.

**Plagiarism and Collusion**

This project is assessed as **group work**. You must work within your group and not share work with other groups.

Students must never give hard or soft copies of their coursework reports to students in another group. Students must always refuse any request from another student not in their group for a copy of their report and/or presentation. It is expected that all group members will have read and write access to the report and presentation for their group.

Sharing a coursework report with another group is collusion, and if detected, this will be reported to the School's Discipline Committee. If found guilty of collusion, the penalty could involve voiding the course.

Readings, web sources and any other material that you use from sources other than lecture material must be appropriately acknowledged and referenced. Plagiarism in any part of your report will result in referral to the disciplinary committee, which may lead to you losing all marks for this coursework and may have further implications on your degree. <https://www.hw.ac.uk/students/studies/examinations/plagiarism.htm>

**Lateness penalties**

Standard university rules and penalties for late coursework submission will apply to all coursework submissions. See the student handbook.

**Feedback and Interviews**

Presentations will be scheduled during class on Monday 30th March. Each group will give a 15 minutes presentation on the assigned research topic. All members of the group must be present for the presentation. You will receive your marks and a feedback on your presentation and on the submitted research report by April 18th, 2020 through vision.