Technical demonstration:

Demonstrate a practical example of your chosen area of interest that should include Big Data and Advanced Data Analytics.

* This will be a coded example and will require you to upload your code in a Jupyter notebook.
* Demonstrate your research along with your practical deployment using a video recording (5 – 7 minutes) or Screen cast. [0 - 20]

Your paper should include:

* Overview of the chosen topic, including objective statement and Research Question. Presentation of state of the art, including research methodologies and key of the papers you reviewed. [0 - 20]
* Literature review based on the chosen papers for the topic of your choice including proper citations and Harvard style referencing. [0 - 15]
* Critical evaluation of the key findings, specifically their implications and limitations, and highlighting any contradicting viewpoints and research gaps. [0 - 30]
* Conclusions you have drawn based on your research. [0 - 15]

Grades will be dependent upon your work on BOTH Advanced data analytics (specifically Neural Networks) and Big Data Storage & Processing. Eg if you only complete your assignment on Big Data with no Advanced data Analytics then you would receive a grade for the Big Data Module and a 0 for Advanced data Analytics.

It is important to remember that a research paper is not just a summary of articles.

The expected word count should be (4000 – 6000) (excluding references, titles, citations and quotes) in length and should follow the IEEE format. You should draw on appropriate academic literature for your review (use a MINIMUM of 10 references). Tools like Google Scholar will be of key value to achieve this. Moreover, tools such as Zotero or Mendeley will be very useful for reference management and proper reference formatting.

SUBMISSION:

* The final report must be submitted to Moodle on/before the deadline. Submissions received after the deadline will be subject to penalties.
* Format of word file name should follow the format, studentID\_Integrated\_CA (NO PDF’s!)
* Code files (jupyter notebook),
* Screencast presentation,
* Data sets,
* GitHub link

Submission Requirements All assessment submissions must meet the minimum requirements listed below.

Failure to do so may have implications for the mark awarded.

All assessment submissions must:

* 4000 - 6000 words (excluding references, titles, citations and quotes)
* Word Document for report, Jupyter notebook for code, Screencast for practical demonstration.
* IEEE Format
* Be submitted by the deadline date specified or be subject to late submission penalties
* Be submitted via Moodle upload
* Use Harvard Referencing when citing third party material
* Be the student’s own work.
* Include the CCT assessment cover page.