**MIS2502: Data Analytics  
Extra Credit Assignment (and Professional Achievement Points!)**

**The deadline is 11:59 PM on Apr 28, 2018. No late submissions will be accepted!**

**Overview and Purpose:**

Research a current topic on **Data Analytics** that we have not covered extensively in class. You will create a write-up, and the purpose of this assignment is to give you an outlet to display your ability to understand and describe an aspect of data analytics to your current and future employers.

**Possible topics:**

* Big data
* Distributed data technologies (i.e., Hadoop)
* Natural Language Processing
* Text mining and sentiment analysis
* Virtual data cubes and/or in-memory analytics
* The Internet of Things (IoT)
* Cloud-based analytics/Cloud computing
* NoSQL databases
* Deep learning
* Artificial Intelligence
* Social network analysis/analytics

You don’t have to choose one of these, but if you’re unsure of your topic choice ask me first.

**For all students:** Everyone who successfully completes the assignment will receive **30 points extra credit** added to the last assignment. **If you are a MIS major,** you can also receive 50 “Professional Achievement Points.” [[1]](#footnote-1)

**Deliverable:**

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| For MIS majors who would like to receive Professional Achievement Points: | For non-MIS majors, or MIS majors who do not want to receive Professional Achievement Points: |
| * A page on your Community Site E-Portfolio that summarizes your research. (Your write-up should be formatted as an HTML page and posted to your E-Portfolio. In other words, DO NOT POST A PDF OR WORD DOCUMENT.) * On Canvas->Assignments>To-Do, submit the links to the front page of your Community Site E-Portfolio and to your write-up page.   If you are an MIS major and do not have an E-Portfolio, instructions to make one are here: http://community.mis.temple.edu/professionalachievement/e-portfolios/ | * On Canvas->Assignments>To-Do, submit a write-up as a word document * You do not need to have an E-Portfolio |

**Content:**

Your write-up should be **between 300 and 400 words**, not including references.

You should cover the following points in your writeup:

* **A brief overview** of the topic (i.e., what is it and why is it important).
* **How the topic relates to the material we have covered in MIS2502**. How does it build on the concepts covered in the course? What are the related topics in MIS2502?
* **An example** that describes how this tool or technique has been applied in practice.
* **Citation Guidelines**: If you use materials (text, figures, data, etc.) in the writeup that was created by others, you must identify the source and clearly differentiate your work from the materials that you are referencing. Failure to do so will be considered plagiarizing. There are many different acceptable formats that you can use to cite the work of others. The format is not as important as the intent. You must clearly show the reader what is your work and what is a reference to someone else’s work.

**Evaluation:**

To receive credit, your deliverable must satisfy these criteria:

1. The three areas described in the “Content” section must be covered.
2. The text must be in your own words. Paraphrase your sources; do not quote directly from them.
3. You should cite all the sources you use in a professionally formatted bibliography at the end of your write-up.
4. If you are a MIS major and would like to receive points, your write-up should be formatted as an HTML page and posted to your E-Portfolio.
5. The write-up should look professional and be free of grammatical errors and typos.

**There is no partial credit!** If you don’t meet all of these requirements, you will receive no credit for this assignment.

1. For more information about Professional Achievement Points for MIS Majors, see   
    http://community.mis.temple.edu/professionalachievement/ [↑](#footnote-ref-1)