**INFS 774 Big Data Analytics**

**Guidelines for Week 3**

Relevant Learning Objectives:

1. Gain an overview of the MapReduce model and its features
2. Develop an understanding of the different MapReduce stages including map, sort&shuffle and reduce.
3. Gain an overview of MapReduce job execution in Hadoop V1 and Hadoop V2.

Required activities:

1. Watch Professor Liu’s week 3 lecture videos posted on the course video site. The accompanying slides have been posted under the “week 3” folder.
2. Read: [MapReduce: A Brief Introduction (chapter 3 from "Hadoop Operations")](https://d2l.sdbor.edu/d2l/le/content/1114846/viewContent/6090882/View)
3. Read: [MapReduce: Detailed Overview and Weather Dataset Example (chapter 2 from "Apache Hadoop: The Definitive Guide")](https://d2l.sdbor.edu/d2l/le/content/1114846/viewContent/6090881/View)

Optional activities:

1. Read Google’s original paper on MapReduce by Jeffrey Dean and Sanjay Ghemawat (2008)
2. Read DeWitt and Stonebraker (2008) MapReduce - A major step backwards
3. Read Dean and Ghemawat (2010) Response to critical comments on MapReduce
4. Watch Cornell University MapReduce Virtual Workshop
5. Top of Form