

School of Computing and Information Systems  
The University of Melbourne  
COMP90049 Knowledge Technologies (Semester 2, 2018)  
Workshop exercises: Week 7

1. Finish any remaining questions from last week, if necessary.

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2. What is data mining/machine learning? What makes this a knowledge task?
3. What is the difference between supervised and unsupervised machine learning?
  - (a) [EXTENSION] Give examples of some different problems where you might use supervised and unsupervised techniques.
4. In the context of (supervised) machine learning:
  - (a) What is an instance?
  - (b) What is an attribute? What different kinds of attribute are there?
  - (c) What is a class?
5. [EXTENSION] How might you approach learning with the Weather dataset (from Witten et al. (2011)):
  - (a) As a supervised problem?
  - (b) As an unsupervised problem?