

Exercise1 for the Lecture  
**Big Data Mining**  
Prof. Yang Zhou  
Chapter 1: Concepts and Techniques

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- a) What is Data Mining ?
- b) Explain knowledge discovery steps in a Framework like Web Mining?
- c) Write the Data Preprocessing, Data Mining and Data PostProcessing inclusive processes in a knowledge discovery process from Machine Learning and Statistics approach?

2- Write 5 data mining functions and give an example for application of each one of them ?

3- Explain the difference between noise and outlier ?