CS57300: Data Mining	Spring 2016

Lecture 1: January 28

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Note: *LaTeX template courtesy of UC Berkeley EECS dept.*

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This lecture's notes illustrate some uses of various LaTeX macros. Take a look at this and imitate.

1.1 Motivation

Explain the motivation. You can go beyond the motivation given in class.

1.1.1 Technique Name

Here is an itemized list:

- this is the first item;
- this is the second item.

Here is an enumerated list:

1. this is the first item;
2. this is the second item.

Here is how to define things in the proper mathematical style. Let $\mathbf{u}$ be a vector, $\mathbf{X}$ be a matrix or a tensor, Y be a random variable, and c be a constant. Example: Y is a multi-variate Normal distribution with average Xu and variance $\boldsymbol{\Sigma}$:
$$Y \sim \mathcal{N}(Xu, \boldsymbol{\Sigma}).$$

1.2 Next topic

Here is a citation, just for fun [CW87].

References

[CW87]   D. COPPERSMITH and S. WINOGRAD, "Matrix multiplication via arithmetic progressions," *Proceedings of the 19th ACM Symposium on Theory of Computing*, 1987, pp. 1–6.