**DS510 Artificial Intelligence for Data Science**

**PE08**

School of Technology & Computing (STC) @City University of Seattle (CityU)

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**Before You Start**

* If you have questions about the lab requirements, please ask a TA to clarify for you.
* If you are not sure what to do:
  1. Consult the resources listed below.
  2. If you cannot solve the problem after a few tries, ask a TA for help.

**Lab Tasks**

* Revise the source code from HOS8 based on the following requirements:

Modify the RBM class to return the reconstructed visible layer from the last epoch, allowing you to evaluate how well the RBM has learned the user’s preferences. Then, print the reconstructed data.

Hint: update the train method to return neg\_visible\_probs.

Expected output:

A number of numbers and letters

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**Please download the source code file ipynb file and submit it to BrightSpace.**