**DS510 Artificial Intelligence for Data Science**

**PE05**

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 HOS5 based on the following requirements:

Revise the Gaussian Naive Bayes prediction pipeline to investigate how removing one feature at a time (e.g., DAY, STOCK, or BLOCKS) affects prediction accuracy. Your implementation should:

1. Train and evaluate the model using all three features.
2. Retrain and evaluate the model after removing each feature individually.
3. Print accuracy scores for each variation.

Hint: use [train\_test\_split](https://scikit-learn.org/stable/modules/generated/sklearn.model_selection.train_test_split.html) library from sklearn.model\_selection.

Expected output:

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