

Pre-class Learning Activities for Session 3

Instructions:

- Complete the following listed learning activities before class.
- Post your questions in NTULearn Class Site > Discussion Board.
- Good questions will be awarded additional class participation points.
- Post your answers to questions raised in the Discussion Board.
- Good answers will be awarded additional class participation points.

Learning Activities¹:

1. Read <https://towardsdatascience.com/association-rules-2-aa9a77241654>
2. Read <https://towardsdatascience.com/complete-guide-to-association-rules-2-2-c92072b56c84>
3. Read PDF paper: Lucas Lau and Arun Tripathi (2001) Mine Your Business — A Novel Application of Association Rules for Insurance Claims Analytics. Casualty Actuarial Society E-Forum, Winter 2011.

R References:

- apriori: <https://www.rdocumentation.org/packages/arules/versions/1.6-6/topics/apriori>
- Transaction Class: <https://www.rdocumentation.org/packages/arules/versions/1.6-6/topics/transactions-class>
- About Transactions Class: https://www.jdatalab.com/data_science_and_data_mining/2018/10/10/association-rule-transactions-class.html
- Tutorial with dataset: <https://towardsdatascience.com/association-rule-mining-in-r-ddf2d044ae50>

Python References:

- mlxtend:
 - http://rasbt.github.io/mlxtend/api_subpackages/mlxtend.frequent_patterns/#association_rules
 - http://rasbt.github.io/mlxtend/user_guide/frequent_patterns/apriori/
- apyori:
 - <https://pypi.org/project/apyori/>
 - <https://stackabuse.com/association-rule-mining-via-apriori-algorithm-in-python/>

¹ If you could not access these online articles, the PDF print version are also available in the Ref folder.