

# Mathematics of Natural Language Processing algorithms (cont'd)



## Lab Exercise 4:

1. Calculate the bag of words (without TF-IDF, just word counts) matrix for the following 5 phrases.

- college student
- airport taxi driver
- Toronto art museum
- life art
- machine learning student

*Hints: How many rows should be there? How many columns should be there?*

2. Calculate the IDF for the words “college” and “art”.