CMSC5743 Lab 02

General Matrix Multiply

1 Sample Code:

- Go to the ./Lab02-code/
- Run sh run_matmul.sh in your terminal
- You can change many places in the code to get different runtime
 - matmul()
 - matmul_ikj()
 - matmul_AT()
 - matmul_BT()

2 Assignments:

- **Q1** Change the shape of matrix A, B mentioned in matmul.cpp to get the best performance of your code and write down your configuration
- **Q2** Learn the im2col from the **Useful Materials** Section to implement it from scratch using C++ to optimize convolution operation
 - Input_Feature_Map: $4 \times 4 \times 3$
 - Kernel_Size: 3×3
 - Num Kernel: 3

Useful Materials:

- MATLAB im2col
- Making faster
- ConvNets in practice

Tips: You should learn the code style from the sample code to build your project.