CSC420 Winter 2018 Final Project Proposal

Members:

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We will be working on **Project 1: Analysis of news broadcast**. We will be using Python and/or MATLAB. We would like to present our project via **Skype** as we have exams scheduled on April 10, 12 and 14.

Tackling the problem:

1. In order to detect shots, we will check if there is a significant change in color between 2 consecutive frames. We would also consider using PySceneDetect (python library)
2. To detect the company’s logo, we will use template-matching and search every frame to locate it and draw a bounding box.
3. To detect faces in the video, we will use the paper by X. Zhu, D. Ramanan: Face detection, pose estimation and landmark localization in the wild.
4. To detect male vs female faces, we will build on the trained classifier from #3 to predict the gender of the face.

P.S. We might use some of our existing Python neural networks code from CSC411.