**CS 410 Project Proposal**

Team youPro consisted of two fantastic team members: Kaixin Wang (kaixin5) and XingChen Wu (xw82). Kaixin Wang will be the team captain for this project to lead, organize, and plan all the documentations and assign work distributions.

The topic chosen by youPro Team is to use the concept of text mining to perform deep analysis on the product reviews collected from various data sources, such as twitter feeds, amazon reviews, and google customer etc. One specific product we have in mind is to perform sentiment evaluation on the recent product [ArriveCan](https://www.google.com/search?rlz=1C1CHBF_enCA944CA944&sxsrf=ALiCzsbw2HjoeRRQLfNMkOIhpeeQqbOGDg:1666540605310&q=ArriveCan&spell=1&sa=X&ved=2ahUKEwiD4aHG2_b6AhXbkYkEHX1XD1kQkeECKAB6BAgGEAE) developed by the government of Canada to enhance border security to combat COVID-19. The team members in youPro are all frequent travelers so they are all very familiar with the product, but all have mixed feelings about it. It would be interesting to explore on various websites such as Youtube comments, twitter feeds, and other data sources to perform text mining on the customer reviews regarding this application. From the sentiment and trending analysis, the group is hoping to capture the tones in each comment and top 10 aspects of the product that either customers hate or love. Keywords such as border complications, time consuming, easy to download, buggy, etc. are predicted to be frequent encounters which the group can collect from review datasets and can be further analyzed for the government to plan strategically on the next phases in terms of future application updates.

The programming language for the project will be python for sentiment and trending analysis, the group will include some third-party frontend framework for the UI development. The project contains two main portions:

1. **Web Crawling to collect large sets of review data for specific product (10 hours)**
2. **Sentiment and trending analysis on provided data set (20 hours)**
3. **UI enhancement and project integration (10 hours)**

For the purpose of learning, the group decided to let each team member try to participate and work collaboratively on each task. However, given the dynamic workload and limited timelines, individual members may end up contributing more time and resources on certain tasks over the others.

Overall, youPro team is a very motivated team group and looking forward to collaborating to turn this project into a resume-ready final project.

youPro Team

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Kaixin Wang (kaixin5)

XingChen Wu (xw82)