Week 6 Project Report

June 7 - 13, 2021

Eric, Vicens, and Ben

StatCan Covid-19

Canada Emergency Wage Subsidy

Dashboard and Report

Overall Progress

- 1st Week: Project understanding
- 2nd Week: Data exploration
- 3rd Week: Dashboard and report
- 4th Week: Dashboard and report tweaks and enhancements
- **5th Week:** More minor improvements
- 6th Week: Dashboard conversion

Accomplishments

CEWS Dashboard

Research for dashboard conversion to older version of Power BI

StatCan Covid-19

API Feasibility Study

Report and Model

Overall Progress

- 4th Week: API research
- **5th Week:** API feasibility report and initial model development
- 6th Week: API feasibility report report tweaks and enhancements, and models development

Accomplishments

Twitter Sentiment Analysis

Most current tweets mentioning CEWS sentiment analysis

Steam

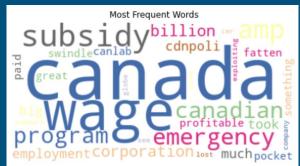
 Collects 100 most recent game reviews under Plague. Inc, and uses the nltk library to analyze the sentiment intensity.

Reddit

Search through region-specific subreddits for posts containing COVID-relevant keywords

Twitter CEWS Sentiment Analysis









Steam Game Review Sentiment Analysis

Collecting the Reviews:

- SteamSpy
- Valve API

Sentimental Analysis:

Python NLTK package

```
6 for rv in review list["review"]:
            print(SA.polarity scores(rv))
          neg.append(SA.polarity scores(rv)["neg"])
          pos.append(SA.polarity scores(rv)["pos"])
 10
          neu.append(SA.polarity scores(rv)["neu"])
          compound.append(SA.polarity_scores(rv)["compound"])
 12
 13 review list["pos"] = pos
 14 review list["neg"] = neg
 15 review_list["neu"] = neu
 16 review list["compound"] = compound
 18 review_list.sort_values(by = "compound", ascending=False).head(10)
 20 # I should filter out all comments that contains : ["Covid", "covid"
 21 # I was worrying about I might not be able to get enough comments,
     # But for demo purposes, this piece of code shows enough knowledge
                                                                   compound
          This game is great, and it's great playing it ... 0.000 0.281 0.719
                                                                       0.9763
 0 ---{Gameplay}---\n□ Try not to get addicted\n ... 0.137 0.224 0.639
                                                                       0.9700
11 I love this game!\nMy biggest worry was whethe... 0.058 0.190 0.752
                                                                       0.9656
          While I wouldn't say it is worth the full aski... 0.103 0.200 0.697
                                                                       0.9287
     An amazing game which has almost infinite cont... 0.000 0.316 0.684
                                                                       0.9211
30
              it can be so fun if u play with ur friends 0.000 0.588 0.412
                                                                       0.8751
       Works great and plays great, not worth nearly ... 0.088 0.541 0.371
                                                                       0.8602
21 Plenty of content and unique game modes to kee... 0.061 0.327 0.612
                                                                       0.8555
      This game is absolutely amazing. The wide vari... 0.136 0.226 0.638
                                                                       0.8187
        My Virus appeared in reality, Pretty cool, wou... 0.000 0.580 0.420
                                                                       0.8070
```

Reddit

keywords = ["covid", "pandemic", "opening", "immunization", "vaccination", "vaccinated", "COVID-19", "Covid-19"] df[df['title'].str.contains('|'.join(keywords))] ups upvote ratio downs score selftext subreddit title 296.0 574 cases of COVID-19 in Ontario, 109 in Toron... 296.0 0.96 10 Initiate stage 1 of reopening 0.83 toronto 14 0.0 508.0 City of Toronto immunization clinics opening 6... 508.0 0.97 26 214.0 I got an email from Fox and Fiddles saying the... Bars opening at 12:01 am tonight? 214.0 toronto 0.93 downs score selftext subreddit ups upvote ratio Hello everyone, please use this thread to disc... Weekly Covid-19 Discussion Thread Calgary 0.50 9 0.0 14.0 Calgary COVID-19 outbreak at Calgary hospital linked t... 14.0 0.64 downs score selftext subreddit title ups upvote ratio Anybody know anything about when Five Guys is ... newfoundland Five Guys opening soon? 11.0 0.83 4 13 27.0 New Cases:\n\n* The first new confirmed case ... newfoundland 5(+3) New Cases of COVID-19 in NL(June 10) 27.0 1.00 15 0.0 7.0 newfoundland Newfoundland and Labrador COVID-19 vaccination... 0.82

Planning and Action Items

- CEWS Report
 - Report editing and proofreading
- API Feasibility Study
 - Report editing and proofreading
- Final presentation and report

Roadblocks

- CEWS report feedback pending from StatCan
- CEWS dashboard Power BI compatibility problem
- Twitter API limitations
- Most APIs studied have limited potential for StatCan's goals

Deviation From Initial Plan

- More effort required to solve PowerBI compatibility issues
 - Finish API and course work first

Incremental Results

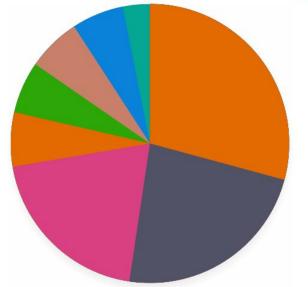
- 1st Week: Project understanding
- 2nd Week: Data exploration
- 3rd Week: Dashboard and report
- 4th Week: Dashboard and report tweaks
- 5th Week: Models and API report draft
- 6th Week: Models and API report tweaks
- Remaining time: API project and report/dashboard tweaks, final presentation and report

Summary of Individual Work

Eric

06/07/2021 - 06/13/2021

TOTAL HOURS: 32:32:00



	A DI	Donort
.	API	Report

TIME ENTRY

- API Report Editing
- Final Report
- Reddit API Prototype
- Final Paper
- Dashboard
- Weekly Presentation
- Client Meeting

DURATION

9:30:00

7:33:00

6:30:00

2:00:00 2:00:00

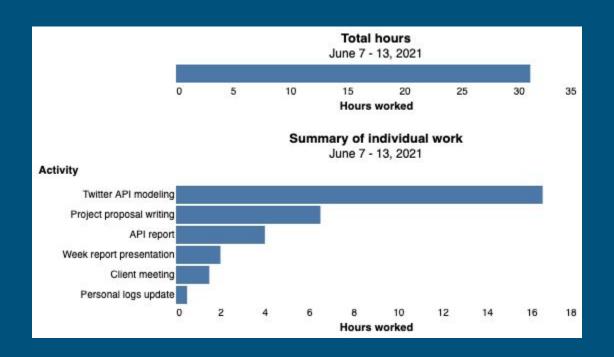
2:00:00

1:59:00

1:00:00

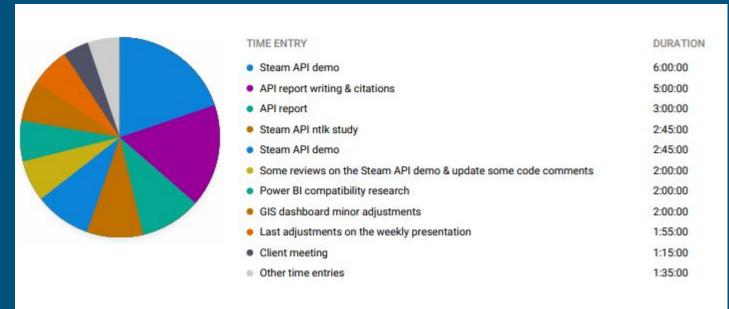
Summary of Individual Work

Vicens



Summary of Individual Work

Ben



DURATION 30:15:00

Client Minutes

https://github.com/ubco-mds-2020-labs/w2020-data599-capstone-projects-stati stics-canada-covid-19/blob/main/meeting-logs/meetings_week6.md

Thank you!