Logistics

- Project milestone 2
 - Due: tomorrow
 - Content: describe your progress in no more than 2 pages
- Assignment 4
 - Will be announced tomorrow, or latest by Saturday
 - Due: December 4
 - Requirements
 - Watch a recorded talk/tutorial, write a report for at least 2 pages
 - Summarize the content
 - Your thoughts (what you like/dislike), try to be critical
 - Connection to this course, what you think are the next things to do
 - No lecture next Tuesday. Recommend to utilize this time to finish the assignment

Today's Plan

Spotlight talk

Help with data collection

Group discussion

Open discussion

	Spotlight presentation order
	Pyi Theim Kyaw, Minh Vu
Group 1	Zoe Wang, Ge Bao
	Bob Zhao, Brent Uramato
Group 2	Matheus Bustamante, Jack Phillips, and Siam Abd Al-Ilah
	Tong Wu, Xiaoyu Liu
	Keith Kamons, Will Parkinson
	Rui Jin, Quentin Wang, Lingxu Zhang
Group 3	Andrew Han, Rohan Rai, Nikki Xie
	Danielle Larson and Alex Bakus

Spotlight Presentations



By: Pyi Theim (PTK) Kyaw, Minh Vu

Exploring the Working Patterns of Turkers and the Turker-Requester Relationship Ge Bao, Zoe Wang

What we want to achieve:

- From the various Turker forum, search and analyze what the Turker/Requester complain about/share.
- Generate keyword for crawling data from AMT to support and further research the analysis.
- Based on the above, along with what we have learn in class, give some design principles to improve the AMT HITs list.

What we have achieved so far

- Manully read post/thread from Turker forum as much as we can
- We analyze these posts to get:
 - o reason why a Turker/Requester posts it
 - o comparison between crowdsourcing tasks and traditional jobs
 - o potential improvement needed for the platform/Turker/Requester.
- keywords for data gathering/crawling: coronavirus, covid-19, covid, pandemic, number of new daily tasks, translation, picture

hit set id

31QOF9ABMODBAQA5PEVCVWM7E6JL17

requester id

A3VTXG9MRA65HP

AKEBQYX32KM19

A1P1TEG1NZPFYL

A2IN5BDIKLUKNT

A2GR1G9U78ETJF

Crowdsurf Support

Vision

• some of design ideas: Filter system, Flash teams, Identity badges/level system, Exclusive tasks

What data we have collected

- Top-100 tasks from HITs list
- Crawled daily, expected to last for 2 weeks (1,400 entries)
- Fields include: requester, title, description, reward, assignable hits count, timestamps, approval rate, ...

Next steps:

- Keep collecting data
- Perform a vertical and horizontal analysis on turkers/requesters activities
- Combine ethnomethodological and statistical analysis to make suggestions for AMT

Data on 11/18 1:31:05
title

Market Research Survey

Clean Up How-To Questions

1 question SCREENING (10s)

Anotación de comentarios ofensivos e

Identity the entity's opinion (positive, r

Bob and Brent - Procedurally Generated Content

Project Concept:

- Procedural Content Generation (PGC)
- Pretty well-theorized research area
- Lack of applied frameworks

Project Product:

- Idea is to create a small version of PGC in game form
- Implementation of PGC has a large scope
- Plan to focus on theory and explore real-world examples

Mitigating Bias

Our project is a literature review focused on bias present in crowdsourced datasets

We split our analysis into 3 distinct parts

First, we review literature that details the different types of bias that can be present in crowdsourced data

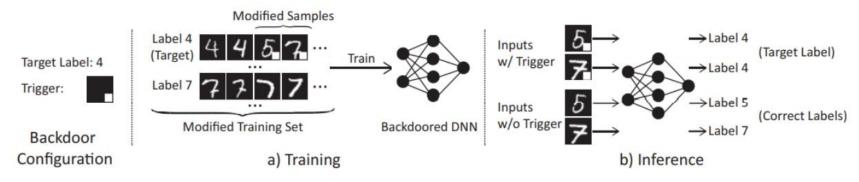
Second, we look at designing HITs and how to structure them in ways that minimize the bias in collected data

Lastly, we discuss some algorithms designed to mitigate bias after the collection has concluded

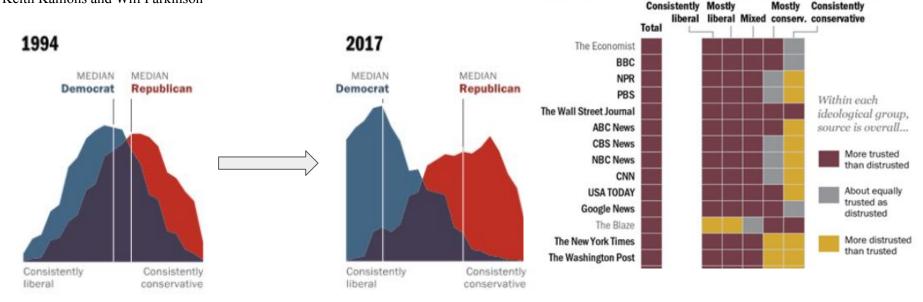
Mitigating adversarial crowdsourcing Data

The goal of our project is to train a good machine learning model with collected data through crowdsourcing.

There might be unknown attackers uploading adversarial images via backdoor attacks. Therefore, we aim to design a pipeline to best mitigate the attacks through semi-supervised training and task assignments.



An Exit From the Echo Chamber Keith Kamons and Will Parkinson



What happens if people regain trust in the media? Experiment using simulations

Algorithm 1 Model Source Recommendation Effect

- 1: function RecommendToReader(Source,Reader)
- 2: sourceIsRead \leftarrow DoesReaderRead(Reader.leaning, Reader.trust[source], source.leaning)

Trust Levels of News Sources by Ideological Group

if sourceIsRead then

3:

- $\begin{array}{ll} \text{newReaderTrust} & \leftarrow & \text{CALCReaderTrust}(\text{Reader.leaning}, \\ \text{Reader.trust[source]}, \text{ source.leaning}) \end{array}$
- Reader.leaning \leftarrow CALCREADERLEANING(Reader.leaning, newReaderTrust, source.leaning)
- 7: **return** Reader

id	title	publish_time	watch_count	nice_count	bad_count	comment	count
1	'Very disturbing': Doctor reacts to Rand Paul's suggestion	14-Nov-20	1,036,148	13K	1.1K	6,824	
2	Pro-Trump groups gather in Washington to protest electio	14-Nov-20	2,539,966	21K	10K	48,615	
3	Accused 'dead' voter is alive and speaking out	14-Nov-20	1,692,605	27K	4.1K	13,703	
4	Smerconish: The election is over. Now comes the hard par	14-Nov-20	789,322	7.6K	2.4K	6,001	
5	She went to jail for her friend's fatal overdose. Now she's	14-Nov-20	80,214	1.5K	191	1,161	
6	King: If Trump thinks 2016 was a landslide, 2020 is as well	13-Nov-20	1,226,979	18K	8.7K	14,492	
7	'Stop the steal' disinformation campaign connected to Rog	13-Nov-20	489,075	7.1K	1.1K	6,122	
8	Cooper: Trump's outrage doesn't matter. Here's what doe	13-Nov-20	1,761,534	44K	3.7K	14,179	
9	Trump threatens to deny New York a vaccine. See governo	13-Nov-20	1,934,408	28K	5K	18,448	
10	Trump refuses to acknowledge election reality at White Ho	13-Nov-20	1,912,671	18K	4.4K	17,009	
11	Biden becomes first Democrat in 28 years to win Georgia	13-Nov-20	1,370,091	19K	4.2K	16,800	
12	Tommy Tuberville flubs the 3 branches of government	13-Nov-20	279,674	3.7K	750	3,446	
13	Keilar calls out McEnany's prop used on Fox News	13-Nov-20	2,314,096	36K	4.1K	14,090	
14	These Trump supporters say Fox News is too liberal	13-Nov-20	446,647	6.5K	586	7,601	
15	This is how China reacted to the mass resignation of Hong	13-Nov-20	165,729	1.8K	365	1,669	
16	John Bolton calls on GOP leaders to speak up against Trum	12-Nov-20	679,663	8.8K	4.1K	6,654	

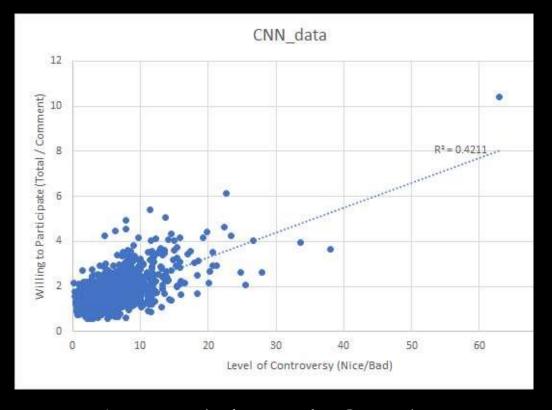
Video data example

commenter_name	comment_time	ok_count	comment_content						
Varun Vadhera	3 days ago	600	Who else?€?s YouTul	be video is	down but	not comm	ents		
Marta Levin	9 hours ago		It's funny, then no on	ne looks ho	w the Den	nocrats co	unt the vot	e ,they wir	n.
Izzy 706	12 hours ago		That's like asking CNN	N if they've	seen a jou	ırnalist. Of	course no	t	
Trailin' Annie	3 days ago	11	FACT: 89% increase in	n Homicide	es in Minne	eapolis but	, by all me	ans, ?€?de	fund
HS	2 days ago	12	The "Top						
Emmanuel	19 hours ago	1	Devil went down to G	Georgia, he	was looki	ng for a ele	ection to st	eal	
Elsie Hannam	2 days ago	2	Why wouldn?€?t you	test it out	on a less i	mportant	election, fo	r goodnes	s sak
SPECTER GADGET	23 hours ago	1	CNN doesn't nor doe	s anyothei	r msm soui	rce make t	he call on v	who the pr	eside
Mikey P.	1 day ago		IF there are fraudule	nt ballots,	recounting	them wor	n't make a	difference	
Michael Brockway	2 days ago	3	What the media is do	ing should	d be consid	ered eithe	r treason o	or sedition	. They
christopher donaghy	3 days ago	7	The hell is happening	g with the ยู	governor's	face?! Glit	ching into	a different	speci
Edward Mercedes	3 days ago	73	This republican has n	nore Balls	than the e	ntire repuk	olican sena	te put toge	ether.
1844junkercars	1 day ago	1	It's such a close race	we dont n	eed the wo	ord widesp	read we ju	st need vo	ter fr
sy moore	12 hours ago		Why the question "w	idespread	"? Can onl	y few macl	nines flip v	otes and is	ok?
Desmond Huggins	3 days ago	102	Hope they loose the 2	2 senate se	eats.				
westentrance	2 days ago	3	After the Stacy Abran	ns defeat,	Georgia re	laxed their	voting crit	eria espec	ially f
Ian Reed	3 days ago	181	Philadelphia's only Re	epublican	City Comm	issioner sa	ys-"There	is no evide	ence o

Comment data example

Using a crawler, we collected the video data and comment data from Youtube channels of CNN and Fox.

We want to explore whether controversial contents can get more attention on Youtube.



A raw analysis over the CNN data

Afterwards, we will analyze the relations based on the watch count and compare other channels to see if similarity exists.

Special scenarios are worthy of discussion. Topics like COVID contain a lot of controversies.



An extended meta-analysis of the differences between American Turkers and foreign Turkers (mainly located in India) in terms of demographics, motivations, behaviors, and attitudes (namely privacy)

Al in Healthcare

Alex Bakus and Danielle Larson

Motivation- pervasive application of AI with drastic consequences

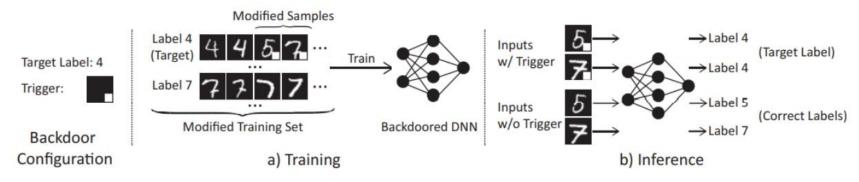
- Literature review of various papers concerning Al in healthcare.
- Explore various algorithms used in healthcare
- Summarize findings and propose a path forward

Help with Data Collection

Mitigating adversarial crowdsourcing Data

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Hand gestures classification

Collect data: We would love to ask everyone to upload 10 hand gestures into:

https://drive.google.com/drive/folders/1Yfu5KcYPfsUgcqX3fOLJZiqleZvZy-v?usp=sharing

Two class classification:





Release

Group Discussion

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