Week of:	Description of Activities:			
8/24	TOTAL 2-3 hours			
	Met with Brandon, Viv, Mike. Introductions. Will meet weekly on Tuesdays 7:30am PT			
	o Teams meeting link for Tuesdays			
	 Reviewed Student Project FY21 Notes (mission areas, project description, etc.) 			
	 Don't have access to https://code.usgs.gov/bserna/usgs-dash-project- 			
	generator (need login)			
8/31	TOTAL 5-6 hours			
	Tuesday 1 hour			
	 Met with Brandon. Will connect on Slack, install CookieCutter, Goals: open dashboard code template and play around with sample data, share a GitHub project with Brandon by the weekend. 			
	Sunday 1 hour			
	 Read about CookieCutter, tried to unzip and open the usgs-dash-project- generator-master.zip.cpgz file without success. 			
	 Set up Slack #usgs_science_data_internship 			
	 Set up GitHub https://github.com/PortfolioSQA/USGS_Catalog_Dash 			
	Monday 3-4 hours			
	 Set-up environment and became more familiar with dash 			
	 Created a simple dashboard using sample data using my own code. Will 			
	request new cookiecutter template file again Tuesday morning.			
9/7	TOTAL 7 hours			
	Tuesday 1 hour			
	 Met with Brandon. Created Slack Channel. Resent CookieCutter file and opened together. Goals for the week: check out the dash template, look at xml from Science Base Catalog (project -> more details) and think about summary graphics/tables. Notes: 8 USGS regions, 6-7 mission areas, many science centers! Connect with elastic search index to fill contents (makes aggregation harder), new elastic search package works with pandas dataframe. 			
	Friday/Sunday 2 hours			
	 Downloaded the cookiecutter template 			
	 Played with the dashboard app 			
	 Looked through Science Data Catalog xml files to determine which data is available 			
	 Proposed a new idea for dashboard to Brandon- Query/Summarize by map 			
	boundaries:			
	 User first filters by Mission Area, Science Topic, or none (dropdown menus) 			
	 User then demarcates geographic boundary requirement on 			
	interactive US Map (default is entire US)			
	 Return record count and all records using geographic location and other filters 			
	 User may filter results further by Science Center, date, or sort by most frequently accessed records 			
	Monday 4 hours			
	Read about Dash, Mapbox, & Leafly			
	 Installed Shapely, Created Mapbox account 			

	 Comments: Polygons are not easy to work with for the user, could choose by selecting geographic boundary by county, state, USGS region, center, or select
	point and radial distance.
	 What to include in sample data: name, keyword, center, lat/long, dates
9/14	TOTAL 11 hours
3/14	Tuesday 3 hours
	 ruesday 3 Hours morning meeting canceled – will meet next Tuesday
	 Installed faker and created sample dataset to use in dashboard Spent time understanding the bounding coordinates in the xml files
	Spent time understanding the bounding coordinates in the xim mes <box< p=""></box<>
	<pre><westbc>-123.60443114739</westbc></pre>
	<eastbc>-97.764587398423</eastbc>
	<pre><northbc>45.032773794668</northbc></pre>
	<pre><southbc>38.897445871348</southbc></pre>
	Sunday/Monday 8 hours Worked on sample data 8 dashboard
	Worked on sample data & dashboard Overtiges for Provides (to figure out).
	Questions for Brandon/to figure out: Nave to see a state of sees Man Base.
	How to use a styled map from MapBox Disign on MapBox Footild for USCS2
	 Pricing on MapBox – Feasible for USGS?
	Other options
	 Discuss best way to map boundaries of data collection (& data collected for
	entire US)
	 Which summaries are most important for USGS? Why? (record count by
	mission area/science center/popular/keywords)
	 Layer USGS regions on map?
0/24	 Use rows from data table without displaying all need columns (join?)
9/21	TOTAL 16 hours
	Tuesday 1 hour
	Met with Brandon
	 To do: Get pricing information for Mapbox, get map working with filtering, fix
	table, complete aggregate graphs, & place code in template
	 Next week: Get SDC data to play with mapping, use styled maps
	Friday 3 hours
	 'Learning App' Got map filtering working with sample data, fixed table,
	aggregated by visits
	 Posted mapbox pricing
	 Explored SDC data
	Saturday/Sunday 10 hours
	 Graphed SDC data, but need to clean it up to be able to filter by date/keyword
	etc.
	○ ETL SDC data
	 Dropped NA for missing spatial (8 rows)
	 Replaced NA for dates, kept year (see questions)
	 Combined keyword columns
	 'Sketch' of where to place map/table/graphs in template
	Monday 2 hours
	 'learning_app' committed to Github – has SDC data graphed in map by
	date/science center, ETL python file in folder
	'SDC_Map_Dash' template committed to Github - wireframe:
	 Will start working on this version once we decide on layout, filtering
	Filter by date, map, filter by keyword (not sci center)

	■ In each tab — Datatable + Summary Stats
	 mappable US data (not nationwide)
	 Nationwide datasets – mapped?
	world/earth/international datasets – mapped?
	• Questions:
	 If nan data is filtered by date, we lose about 10% (600+ rows). Lose the rows?
	Save them? Include Map/graph? I replaced nan with 1900-present
	 Best way to determine global, continental, local data (using PlaceKeyword).
	Agree with three tabs?
	 What to do with keywords?
	o Could color markers by
	 Moved away from selecting map area to fill table – table fills map (zooming
	allows user to determine if data is available in a particular area). Do we want
	map selection ability? Seems messier.
	 Using integer for year – to_datetime doesn't like 1500s
	 Next steps
9/28	TOTAL 7-8 hours
	Tuesday 1 hour
	Met with Brandon
	o Notes:
	 Viv may send invitation to bi-weekly meetings Mondays 9am PT –
	have not received invite
	 Filter by Science Center & USGS Thesaurus Keyword (not by date) -
	done
	 Figure out a 'pretty' way to select all key words/all science centers –
	note: dash doesn't seem to have one, we can select all, but shows all
	science centers
	 For now, separate global, US, mappable data by place keyword in
	three tabs - problematic
	 Create data table and aggregate statistics for each tab
	 Color markers by science center
	 Other: Fix map so when table returns nothing, no markers are mapped, when
	global or US data tab is selected – map shows what? Need to ignore rows in
	data table without lat/lon for the map graph data? Nan Science Center?
	Tuesday 2 hours
	 Updated journal, separated keywords, created unique USGS thesaurus
	keyword and science center list for dropdowns
	Monday 4-5 hours
	 Broke the app trying to add keyword search and spent a couple hours trying to
	fix it. Started from scratch.
	 Have not successfully separated international data (see graph) so the tabs
	don't make sense right now. I could work on separating by lon/lat if we want to
	do this.
	 If we still want to separate by area in three tabs, I need to place the map and
	science center choices inside each tab to be able to change the map/selection
	 So many Science Centers can use a select all/deselect etc. need to change
	font size. How should we display this?
10/5	TOTAL 10 hours
20,5	Tuesday 1 hour
	Dropdown with select all – return all data
	Remove tabs – or use for summaries
	 Zoom into populated marker area

	Color markors
	Color markers Fill mult Seignes Date Conton with (Undetermined)
	Fill null Science Data Center with 'Undetermined'
	o Counts/Graph
	o Keywords
	o https://data.usgs.gov/modelcatalog/
	 https://sciencebase.gov/datarelease/summary/
	 Word cloud for the datatable keywords (% top 50 terms)
	Friday 4 hours
	 Combined all data (instead of mappable, US, global)
	 Fixed dropdown & added All Science Centers
	 Added keyword search
	 Removed tabs
	 Fixed null SC -> Undetermined
	Return Count
	Saturday 4 hours
	Fixed & formatted datatable
	o WordCloud
	Next Steps
	Zoom to populated markers
	Color markers by science center
	Make sure key words are searched lower case
	Speed up wordcloud
	■ Heroku
	Sunday 1 hour Pagagraph of pagagraph o
10/12	Researched zoom to markers and marker color TOTAL OL
10/12	TOTAL 9 hours
	Tuesday 5 hours
	o 1-hour meeting with Brandon. Notes:
	■ 10/19 check-in biweekly informal 8-8:30 am PT
	■ 10/26 SDM Biweekly 9-10:30 PT
	- Text changes (see github)
	- place filters in same search box
	- update datatable headers
	- remove browse these data
	- cache wordcloud for 'all'
	 keywords – lowercase, remove punctuation
	 controlled terms – USGS, etc.
	bug – CA/iso, count 2, returns 1??
	Color by center/zoom into markers
	- update button to download CSV
	 Place 'downloading state' into dt and we
	- Heroku
	 4 hours - completing above list
	Friday 4 hours
	o 2 hours – completing above list
	 2 hours - Connect with git SSH, fix files and attempted to deploy with Heroku
10/19	TOTAL 2.5 hours
	Monday 1.5 hours
	Meeting 0.5 hours
	8am Join Microsoft Teams Meeting
	CDI: https://my.usgs.gov/confluence/display/cdi/Home
ĺ	
	 Model catalog: https://data.usgs.gov/modelcatalog/

	Calanachasa data valassasi
	Sciencebase data releases: https://www.asianashasa.gov/astalag/itagas2gv/8.filtog.asuatagaTypag/
	https://www.sciencebase.gov/catalog/items?q=&filter=systemType%
	3DData+Release&filter=browseCategory%21%3DData+Release+-
	+In+Progress
	1 hour – tried to get the app to deploy on Heroku
	• Manage.py file? heroku ps:scale web=1 ???
	Tuesday – 1 hour
	 Met with Brandon, deployed on Heroku
10/26	TOTAL 4 hours
	Monday 3 hours
	Join Microsoft Teams Meeting 9am
	 Missed the meeting this morning. I'll be there next time.
	• 3 hours
	Fixed loading state for count
	 If I place a loading state on map, it doesn't map correctly!? Can you help me
	figure out why that would be?
	 sci_center colors – works with static data!!! Talk about how to fix this, if we
	want it.
	Tuesday 1 hour
	 Meet with Brandon and Lisa Zolly
	o Data needed:
	Science center
	Latest harvest
	■ Status
	Doi citation info
	■ DOI
	o Filter by:
	Science Center
	 Dates (Beg, End, Updated, Latest Harvest)
	■ Status – Active/Inactive
11/2	TOTAL 11 hours
,_	Monday 1.5 hours
	o 8am Join Microsoft Teams Meeting
	Tuesday Meeting (0.5 hours)
	Looked at data (1 hour)
	To Do:
	 Filter by Science Center (datasource)
	 Filter by Status - Active/Inactive (where is this?)
	 Filter by Dates (avail: first_harvest_date, last_harvest_date,
	last_mdate_check_date, mdate) which?
	Filter: doi: None Do we use this?
	 Return Table: SciCenter, # citations, doi, status, date?
	Return Count: dataset count with filters
	 Return # of citations in the last month (don't have by date)
	Return: Pie Chart of Active/Inactive (if not filtered by this)
	o Flag certain datasets? inactive with citation?
	Other Questions:
	How do I know if data is active/inactive? Is this if the data has been
	harvested? What would the row look like if it weren't?
	■ For the ORCID availability for retrospective DOI assignment - Do I just
	check if doi is None?

	Lisa talked about rate of growth of the collection over time (monthly)
	growth? Which dates?) Bar chart
	Do we want to show the related primary publications?
	• Include non-primary pubs for citation count?
	Layout similar to dash template? Use tabs?
	Friday 3.5 hours
	o etl
	 New file from Cookiecutter template using sample data
	 Filter by Science Center (datasource)
	 Filter by Status - Active/Inactive
	 Filter by Dates (beg, end, last updated (mdate), last harvest)
	 Return Table: SciCenter, # citations, doi, status
	Saturday/Sunday 6 hours
	o Filter by Dates
	 Return Count: dataset count with filters
	 Return: Pie Chart of Active/Inactive (if not filtered by this)
	Questions/Issues:
	O When I align the CSV download link to the right, it breaks! Why?
	 Using mdate instead of last harvest date doesn't work Worked for a while
	trying to figure out problem with date type, couldn't find it
	 Fix tab1 so it gives the datatable for selection (doesn't return to all). Why do
	the other tabs retain filter info, but not datatable?
11/9	TOTAL 8 hours
,	Monday 2.5 hours
	o 9am Join Microsoft Teams Meeting 9am
	Fix count and commit to new repository on GitHub:
	https://github.com/PortfolioSQA/SDC_Manager_Dashboard
	Tuesday Meeting 1 hour
	TODO: Fix table (so it doesn't change to default when tabs are changed), Fix
	mdate
	 Talked about NLP project - creating a custom NER to identify models from
	epubs warehouse?? for the Model catalog. If time permits start researching
	this.
	 Also talked about volunteering for usability testing for Sophie Saturday 3 hours
	Fixed mdate Worked on datable persistence for a souple bours. I san't figure out what to
	 Worked on datable persistence for a couple hours I can't figure out what to do to keep the table from reverting to default in tab.
	· -
	Changed 0/1 => inactive/active Sunday 1.5 hours
	Sunday 1.5 hours Page and begin to greate quetoes NED madely
	Research on how to create custom NER model Tried for another 1.2 hours to debug the table possistence. Used deceases.
	o Tried for another 1-2 hours to debug the table persistence. Used dcc.store,
11/16	persistence = True, and filtering in another callback. Didn't get it to work 🕾
11/16	TOTAL 4.5 hours
	Monday 0.5 hours
	Monday 8am <u>Join Microsoft Teams Meeting</u>
	Tuesday – meeting cancelled due to power outage
	Wednesday 3 hours
	o Deploy to Heroku
	 Tab update works in Heroku. Weird!
	 Fixed datatable sort
	 Need to fix table so we can sort by status and right align download link

	Sunday 1 hour		
	Created random dates in Excel for sample data		
11/23	Thanksgiving Week – WEEK OFF		
11/30	Final Exam – WEEK OFF		
12/7	TOTAL 12.5 hours		
	1.5 hours Monday <u>Join Microsoft Teams Meeting 9am</u>		
	1 hour Tuesday meeting		
	o Methods: CNN, SVM, etc		
	Tasks: Image classification, image segmentation, etc		
	Applications (use cases): precipitation-induced landslide warning, tracking		
	rainfall thresholds,		
	3 hours Tuesday Create sample data (dates for hos, and undate horizest), shange code to		
	 Create sample data (dates for beg, end, update, harvest), change code to incorporate new 'dates' 		
	3 hours Wednesday		
	e-mail Sophie with updates		
	2 hours Thursday		
	Create notes document for model scraping		
	Review text		
	 2 hours Sunday extract abstract, identify method, task and application 		
	 extract abstract, identify method, task and application Create txt files with abstracts 		
12/14	TOTAL 10 hours		
12/14	• 0.5 hours		
	Monday 8am Join Microsoft Teams Meeting		
	• 1 hour		
	 2pm - Meet with Lisa, Brandon, and Sophie 		
	TO DO LIST:		
	→ Rename dashboard		
	 Link – learn how metrics are calculated 		
	o Table – font choice?		
	 Org of interest -> Choose your science center/program 		
	→ Select dataset status		
	 Explanation of active/inactive 		
	→ Put date selection in same box		
	 Justify radio buttons 		
	→ Remove beg/end dates		
	• Last harvested, last updated -> start date?		
	Flexibility in search by date? Calendar year? Active Inactive Total pie short.		
	 → Dataset Count - > Active, Inactive, Total, pie chart → Make stacked bar graph for active inactive by date 		
	Remove pie chart tab		
	⊕ doi – links?		
	Alternate IDs for datasets?		
	Delete widgets in graph area		
	⊕ Format date label		
	 Download -> more usable file name 		
	 Help & documentation (Tool tips) 		
	Errors: If it's not working what happens?		
	• 8.5 hours		

		0	Complete TODO list, redesign site, insert links for DOI, alternate identifiers,	
42/24	WEEK O	EE HOL	stacked bar chart for counts by date, delete widgets in graphs	
12/21 12/28		WEEK OFF - HOLIDAY ■ TOTAL 7-8 hours		
12/20		30 min -Monday 8am Join Microsoft Teams Meeting		
		0	https://data.usgs.gov/datacatalog/	
	•	1 hour -	- Tuesday Meeting with Brandon	
		0	Questions: title, markdown – open link in new tab/window for DOI, filter by	
			active/inactive?, explanation for active inactive, Errors	
		0	TODO for dashboard: table -> dbc, tab (dash -> SDC Dashboard), Sentence - bold or large numbers,	
		0-	-https://dash-bootstrap-	
			components.opensource.faculty.ai/docs/components/table/ - dbc table	
		0	<u>https://data.usgs.gov/datacatalog/api/docs/v1</u> , swagger API – look at	
			documentation to get data except citation (leave as null for now)	
		0	TODO for NER: exploratory functional prototype: look at https://paperswithcode.com/ , format text in jsonl, get prodigy (costs \$390),	
	\"toyt":	"This is a		
			nother text"}	
	_		s.gov/modelcatalog/search	
	Training		s.gov/modeledialog/sedien	
	1.		pubs.usgs.gov/tm/14/a2/tm14a2.pdf	
	2.	https://	pubs.usgs.gov/of/2008/1159/downloads/pdf/OF08-1159.pdf	
	3.		pubs.usgs.gov/of/2016/1136/ofr20161136.pdf	
	4.		pubs.usgs.gov/of/2007/1088/pdf/of07-1088 508.pdf	
	5.	https://	www.mdpi.com/2073-4441/8/1/17	
	6.	https://	pubs.usgs.gov/wri/1990/4130/report.pdf	
	7.	https://	pubs.usgs.gov/tm/12b1/	
	8.	https://	pubs.usgs.gov/tm/2006/tm6b3/	
	9.	https://	www.mdpi.com/1999-4893/1/2/52	
	10.	https://	data.usgs.gov/modelcatalog/data/5eb4485782ce25b5135abf28	
	11.	https://	data.usgs.gov/modelcatalog/data/5eb4485082ce25b5135abee3	
	12.	https://	data.usgs.gov/modelcatalog/data/5f6240eb82ce38aaa2361498	
	13.	https://	data.usgs.gov/modelcatalog/data/5eb4485e82ce25b5135abf70	
	14.	https://	data.usgs.gov/modelcatalog/data/5eb4485f82ce25b5135abf86	
	15.	https://	data.usgs.gov/modelcatalog/data/5eb4485f82ce25b5135abf7c	
			data.usgs.gov/modelcatalog/data/5eb4485582ce25b5135abf16	
	17.	https://	data.usgs.gov/modelcatalog/data/5f036b3f82ce0afb2446e04a	
	18.	https://	data.usgs.gov/modelcatalog/data/5eb4486182ce25b5135abfb0	
			data.usgs.gov/modelcatalog/data/5eb4485282ce25b5135abef4	
			data.usgs.gov/modelcatalog/data/5eb4486182ce25b5135abfaa	
	•		– Wednesday	
		0	Update journal, look at prodigy (\$390 license), get 10 more text files, create jsonl file (see above links)	
	•	3 hours	Thursday Dashboard updates, dbc tables are SUPER SLOW - decided to format dash data table (I have another file with the dbc table I can show if you'd like)	

1/1		TOTAL O beauty
1/4	•	TOTAL 9 hours
	•	2 hours - Monday:
		 Doctor's Appt- Couldn't join meeting <u>Join Microsoft Teams Meeting 9am</u>
		 2 hours Install prodigy, en_core_web_sm, etc. Label text, git commit, etc.
	•	1 hour - Tuesday
		 Meet with Brandon 7:30 – will meet with Mike & Viv soon, Ruby Gem linguist
		shows which languages in code,
		 TODO: 10-20 unlabeled texts for evaluation data (good and bad examples), run
		in prodigy (see slack), try again using shorter NEs, use en_core_web_lg, future:
		establish list of methods, concept of datasets on prodigy?, deploy dbc table on
		Heroku and see if its faster
	•	3 hours – Thursday
		 1+ hours Meet with Sophie to talk about Usability Testing
		 2 hours Evaluation Data (in excel & jsonl)
	•	3 hours – Friday
		 Train/evaluate ner – 0% accuracy, relabeled training set 0% accuracy, read
		more documentation, tried with models only, frustrating - next combined to 40
		for training set and re-labeled. Didn't help
	1.	https://doi.org/10.1126/science.aat4723
	2.	https://pubs.usgs.gov/of/2001/ofr-01-0002/
	3.	https://data.usgs.gov/modelcatalog/data/5ff62dc1d34ea5387df035fa
	4.	https://data.usgs.gov/modelcatalog/data/5eb4485982ce25b5135abf3c
	5.	https://doi.org/10.1111/gwat.12397
	6.	https://data.usgs.gov/modelcatalog/data/5eb4485482ce25b5135abf0e
	7.	https://data.usgs.gov/modelcatalog/data/5eb4485682ce25b5135abf1c
	8.	https://data.usgs.gov/modelcatalog/data/5eb4485382ce25b5135abefc
	9.	https://doi.org/10.3133/wri874163
		https://doi.org/10.1002/2017JC013204
		https://doi.org/10.1029/2011JB008968
		https://doi.org/10.3133/wri974022
		https://pubs.usgs.gov/tm/tm4f2/ https://doi.org/10.1016/j.ocemod.2010.07.010
		https://doi.org/10.3133/ofr20151009
		https://data.usgs.gov/modelcatalog/data/5ef3952782ced62aaae3ef55
		https://pubs.usgs.gov/tm/tm6a37/
		https://doi.org/10.1002/joc.3625
		https://doi.org/10.3133/tm14A1
		https://doi.org/10.3133/tm6A43
	_0.	
1/11	•	TOTAL 9.5 hours
,	•	2 hours - Monday:
		o 30 min. Monday 8am <u>Join Microsoft Teams Meeting</u>
		 1.5 hours – tried again with prodigy, read a bit on topic analysis, dbc table. No
		pagination, can't sort, slower
	•	2 hours - Tuesday
		 Meet with Brandon 7:30
		 TODO: Tutorials, analyze n-grams, constrain to better examples
		 Peer review for a "resource review" that Sophie preparing for the CDI Usability
		Collaboration Area
	•	2 hours - Wednesday
		 Prodigy tutorials https://prodi.gy/docs/named-entity-recognition (Food
		Ingredient entities)
L		

	• 1.5 hour - Thursday
	 Continued Prodigy tutorial
	1 hour – Friday
	 Continued Prodigy tutorial
	• 1 hour – Saturday
	 N-gram analysis of text
	 https://github.com/PortfolioSQA/USGS Catalog Dash/blob/master/ngram tex
	t analysis.ipynb
1/18	TOTAL 10 hours
	Martin Luther King Jr Holiday Monday
	0.5 hour - Tuesday
	o Meet with Brandon 7:30 – 8:00
	 TODO: methods NER: try water balance, transport model, etc. separate and
	then try DE, Lin reg, random forests, etc. (may have to use regex for that),
	Graphical interface - Keep track of articles that may not be models, New
	Github directory with files and commands
	• 2.5 hours – Friday
	New model for methods (1) Used all methods
	4 hours - Saturday
	 New model for methods (2) Used geologic models (not stats and ML methods)
	• 3 hours – Sunday
	Model 3 + notes
1/25	TOTAL 10.5 HOURS
_, _,	• 1.5 hours Monday
	30 min Monday 8am Join Microsoft Teams Meeting
	Notes, github commit, ml model
	0.5 hours Tuesday
	Meet with Brandon 7:30-8:00
	o TODO:
	Get another 20 texts for testing (abstracts)
	Train again with 'bad examples' see if make-gold improves
	Text (jsonl) files for entity seeds (separate models)
	Train for words before 'model' using verb 'model' as bad examples
	Research existing work for ML NER, articles and/or list for seed terms
	Goal: blog post (search for other blogs pertaining to the topic)
	1.5 hours Friday
	Gather 20 new texts from Model Catalog
	4 hours Saturday
	Train new model – geological terms with 'bad examples'
	 Train new model – words that are prior to 'model'
	2 hours Sunday
	 (Didn't count this as hours). Took a break from Prodigy to research. Research available ML model detection algorithms, seed lists
2/1	TOTAL 11 HOURS
Z/ I	
	1 hour Tuesday A hour Mach with Brandon
	1 hour Meet with Brandon Now model, train ALCO model with amily avarances (don't use percentage).
	 New model – train ALGO model with arxiv examples (don't use acronyms)
	3.5 hours Wednesday Output Description and put NAI profit data in item formed for another Armin 21th test The second sec
	 Downloaded and put ML arxiv data in jsonl format for prodigy (train 3k+, test
	1k+)

- Seeded, labeled about 140 texts, pre-trained (started at 4:45 pm, ended at 12:45 next day = 20 hours)
- Using the ignore button incorrectly! Used if you don't know values, not if they are all wrong. Deselect any text that is correct and click reject.
- 2 hours Friday
 - Use seeds from last model, redo manual train using buttons correctly (209 texts), 1025 make-gold texts and resulted in 44% accuracy. Tried to use the same pre-training since it takes so long, but neat to start again clean. First reduce the size of the train set so it doesn't take so long to pretrain, then reseed and make new model
 - Tips for training (consistency is key, take pictures to remind yourself of how you trained the model or go the jsonl file and search for the text, the model fails if you are inconsistent in labeling the entities)
- 3 hours Sunday
 - o Tried training a new model and ran into error (in commands)

2/8 TOTAL 11.5 HOURS

- 3.5 hours Monday
 - 8am Join Microsoft Teams Meeting
 - Attempt 3 with the arxiv texts/algo model, lots of labeling ◎
 - Watched NER videos: https://www.youtube.com/watch?v=sqDHBH9IjRU
 https://www.youtube.com/watch?v=UxzyD6gVIC8
 - Link to documentation:
 file://Users/sashaqanderson/Downloads/PRODIGY_README.html
- 1 hour Tuesday
 - o 7:30 am Meet with Brandon
- 1.5 hours Wednesday
 - Virtual Student Federal Service (VSFS) career & fellowship programs I guess this was just recruiting, didn't know what kind of meeting it was exactly so I attended ©
- 6 hours Friday
 - Train ALGO model4 see highlighted models below.
 - First work on arxiv algo model, then GEO model again.
 - MODEL 1: (GEO + ML Methods): 64% (seemed to label everything)
 - MODEL 2 (GEO + ML Methods): 68% (ran into labeling problem)
 - MODEL 3 (GEO): 69% better results than I thought Could work on this model a bit more...

Prodigy ner.print-stream geo3_model

/Users/sashaqanderson/Dropbox/USGS/NER_Work/ner_text_test20.jsonl --label GEO

- Model 4: ML: 0% didn't make gold (skipped model 5 oops :-)
- MODEL 6 (GEO): 46% accuracy (ran into labeling problem)
- Model 7: (MDL) 25% accuracy more of GEO model than ML model maybe poor performance because of seeds
- ALGO MODEL COMMANDS 44% (used different pretrain model bust)
- ALGO MODEL2 25% (training error better model than 3 but ran into the error. Use these rules)

Prodigy ner.print-stream algo model2

/Users/sashaganderson/Dropbox/USGS/NER Work/ner text test20.jsonl --label ALGO

Prodigy ner.print-stream algo model2

/Users/sashaqanderson/Dropbox/USGS/NER Work/algo model3/arxiv test.jsonl --label ALGO

	 ALGO MODEL3 – 37% (does a good job with some texts, terrible with others) Got 65% accuracy after about 5 hours of labeling/training, then went to 33% after more make-gold. New saved model: Prodigy ner.print-stream algo_model4 /Users/sashaqanderson/Dropbox/USGS/NER_Work/algo_model3/arxiv_test.jsonllabel ALGO
2/15	TOTAL • 2 hours Monday • Read about Spacy & Prodigy and worked on NER Summary (thinking about why my model went from 65 to 33% after a bit more make gold for the ALGO model4 • 10-15 weeks left of VSFS internship?? Can I set some intermediate goals for myself?
2/22	Monday 8am Join Microsoft Teams Meeting
3/1	Monday Join Microsoft Teams Meeting 9am
3/8	Monday 8am Join Microsoft Teams Meeting
3/15	Monday Join Microsoft Teams Meeting 9am
3/22	Monday 8am Join Microsoft Teams Meeting
3/29	Monday Join Microsoft Teams Meeting 9am
4/5	Monday 8am Join Microsoft Teams Meeting
4/12	Monday Join Microsoft Teams Meeting 9am
4/19	Monday 8am Join Microsoft Teams Meeting
4/26	Monday Join Microsoft Teams Meeting 9am
5/3	