



Weekly Capstone Update Meeting

Sep 16 2022

PA Dept. of Labor & Industry + CMU

Project Timeline

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

0 Kickoff Meeting 9.9

1 First Sprint 9.12-9.23

- Clarify project Goals
- Gather requirements
- Technically onboard to application

2 Second Sprint 9.24-10.7

3 Third Sprint 10.17 -10.28

4 Fourth Sprint 10.29-11.11

5 Fifth Sprint 11.12-11.25

6 Sixth Sprint 11.26 -12.9

Project Progress Updates

➔ **Held a meeting on Wednesday to discuss goal of the project**

- Refined goals and scope of the project:
 - Continue moving forward with current application
 - CMU Team: Add medical costs to the model
 - PA Team: Unblock team from running and viewing prediction results
- Current situation of the platform:
 - Can run the predictions
 - Cannot see results in PowerBI

➔ **Built high level project plan**

- Define objectives, discuss approaches and explore solutions

Project Backlog Breakdown

→ **Claim and medical cost data screening**

- Meeting with Stephen & John to go through the data

→ **Application deployment**

- Live demo of platform functionality – Meeting next week
- Security concerns

Employment Data (QCEW)

A	B	C	D	E	F	G	H	I	J	K	L	M
periodyear	perio	area	areaname	indcod	prelir	suppress	estab	avgemp	mnth1emp	mnth2emp	mnth3emp	
2021	01	000001	Adams County	10	0	0	2125	32507	32101	32330	33090	
2021	01	000001	Adams County	11	0	0	98	1372	1359	1358	1400	
2021	01	000001	Adams County	111	0	0	67	662	660	644	682	
2021	01	000001	Adams County	1111	0	0	7	21	21	22	21	
2021	01	000001	Adams County	11111	0	1						
2021	01	000001	Adams County	111110	0	1						
2021	01	000001	Adams County	11114	0	1						
2021	01	000001	Adams County	111140	0	1						
2021	01	000001	Adams County	11115	0	1						
2021	01	000001	Adams County	111150	0	1						
2021	01	000001	Adams County	11119	0	0	3	7	7	7	7	
2021	01	000001	Adams County	111191	0	1						
2021	01	000001	Adams County	111199	0	1						
2021	01	000001	Adams County	1112	0	1						
2021	01	000001	Adams County	11121	0	1						
2021	01	000001	Adams County	111219	0	1						
2021	01	000001	Adams County	1113	0	0	48	546	544	530	564	
2021	01	000001	Adams County	11133	0	0	48	546	544	530	564	
2021	01	000001	Adams County	111331	0	0	44	529	527	514	546	
2021	01	000001	Adams County	111339	0	0	4	17	17	16	18	
2021	01	000001	Adams County	1114	0	1						
2021	01	000001	Adams County	11141	0	1						
2021	01	000001	Adams County	111419	0	1						
2021	01	000001	Adams County	11142	0	1						
2021	01	000001	Adams County	111421	0	1						

Goals for Next Week

❑ **Finish application deployment**

- ❑ Be able to deploy and execute the prediction tool
- ❑ Brainstorm platform improvements

❑ **Learn core tools in current solution**

- ❑ Research Django web framework,
- ❑ Research SARIMAX, Prophet models

❑ **Exploratory Data Analysis**

- ❑ Onboard tam to claim, employment, and medical data