

Practicum Sprint #3: Status Check-in #1

Enoch Kang
ekang79@gatech.edu

1 ACCOMPLISHMENTS

1.1 Literature Review

Literature review was done as planned to determine the relevant socioeconomic factors for the project. The determined factors are as follows: educational level, income level, employment status, and marital status. The reviewed articles are listed under *References*.

1.2 Dataset Choice

A downloadable Synthea dataset (i.e. SyntheticMassData, Version 2) will be used for this project. For testing purposes, a smaller sample version of the dataset (i.e. 1K Sample Synthetic Patient Records) may be used.

2 CHALLENGES

Initially planned Week 10 materials were as follows:

- Develop an application that has access to necessary resources (1/2)
- Develop a result screen (1/2)

However, this no advancements were done, mainly because the initial plan was scheduled without knowing that Lab 6 existed and was due in Week 9. The entire schedule was delayed 1 week as a result.

3 SPRINT PLANS

Initial plan for the next two weeks were as follows:

- Week 11
 - Develop an application that has access to necessary resources
 - Develop a result screen
- Week 12
 - Learn the general workings of ClarityNLP
 - Select the appropriate classification algorithm for this project

- Prepare the training and testing datasets for the learning model

Considering the delay, the revised plan are as follows:

- Week 11
 - Develop an application that has access to necessary resources
 - Develop a result screen
- Week 12
 - Develop an application that has access to necessary resources
 - Develop a result screen
 - Learn the general workings of ClarityNLP
 - Select the appropriate classification algorithm for this project

The training and testing datasets preparation will be moved to Week 13.

4 REFERENCES

1. Lantz, Paula M., et al. "Socioeconomic factors, health behaviors, and mortality: results from a nationally representative prospective study of US adults." *Jama* 279.21 (1998): 1703-1708.
2. "Social Determinants of Health." *World Health Organization*, 30 May 2019, www.who.int/health-topics/social-determinants-of-health#tab=tab_1.
3. "Social Determinants of Health - Healthy People 2030 | health.gov." *U.S. Department of Health And Human Services*, health.gov/healthypeople/priority-areas/social-determinants-health. Accessed 29 Oct. 2023.