

Q. How will you make it work for men/women/other groups → FAT? - white majority

- social/legal angle (racial invariance) COVID (employers will worry about this) problem (\*)
- If you can't make it general, EXPlicitly mention for which social groups it does work well - paper came out 10 years ago
- Try to find other datasets (NOT PRIORITY)  
Stick to MIMIC iii for now!

→ Friend: going to intern at some hospital at OHIO (might take a semester to obtain the data from them & get approval/legal clearances.) work during FALL break

Q. If you need more than \$150 AUS code/student - needs to apply for grant - may not be approved!

- download code & data for the GNN paper.
- estimate how long it will take for n-epochs based on the run-time of 1 epoch ETA.

(\*) depending on how well you PLAN & keep the TA in the loop - better your GRADE!

→ him as TA \$ ⇒ preparing paper

will expect it  
on Oct 31st.

when she comes back!

Q. What are the risks?

→ Risk

→ Tentative plan to mitigate/hackle them.

- Data Acquisition
- Understanding & Pre-processing
- Reproducing present Set.
- Model Training
- Hyperparameter Tuning
- Performance Analysis

① XGBoost with feature extraction (one-hot)

② GIN paper - Mine

Question

④

Baselines

11/07/2023

filtering based on freq. & non-freq  
[Kushagra Reference]

①

② ADMISSIONS  $\alpha$   
no data used

③ PATIENTS  
Subject-ID, Gender, DOB, Expire-flag

④ ICU-STAYS

Subject-ID, Hadm-ID, ICU-ID, LOS

⑤

Medication

→ PRESCRIPTION H-id, S-id, ICU-id, groupby list of unique drugs administered  
→ INPUT CV NDC (unique)

→ INPUT MV H-id, S-id, ICU-id, S-id,

ICU-id, ITEM-ID<sup>Ⓐ</sup>

(drug item id) ↘

ICU-id, ITEM-ID<sup>Ⓐ</sup>  
(drug item id)

Ⓐ [to find drug item details, go to D\_ITEMS]

## ⑥ LABEVENTS

Sid, Hid, Iid

ITEM-ID\*, valuenum (if null, drop)

(item refers to vital type)  
→ D\_LABITEMS

patient id 10  
treatment ID 1, 2, 3  
2543

one-hot → Max (cat  
1  
1000)

## ⑦ MICROBIOLOGY EVENTS

⑧

repetitions - Take  
SET

S-id, Hid, Org-item-id, AB-item-id  
(organism) (anti-body)

⑧

Diagnosis

~~D\_ICD\_DIAGNOSES~~

⑨

PROCEDURES\_ICD

Sid, Hid, ICD9-CODE maps to  
(D\_ICD\_PROCEDURES)

⑩

~~PROCEDURES\_MV~~

⑪

~~CPT\_EVENTS~~

12

NOTE EVENTS

embeddings from GitHub

[Kush. Ref.]