Package: PheNorm (via r-universe)

August 20, 2024

Type	Package	
	Unsupervised Gold-Standard Label Free Phenotyping Algorithm for EHR Data	
Versio	on 0.1.1	
	iption The algorithm combines the most predictive variable, such as count of the main International Classification of Diseases (ICD) codes, and other Electronic Health Record (EHR) features (e.g. health utilization and processed clinical note data), to obtain a score for accurate risk prediction and disease classification. In particular, it normalizes the surrogate to resemble gaussian mixture and leverages the remaining features through random corruption denoising. Background and details about the method can be found at Yu et al. (2018) <doi:10.1093 jamia="" ocx111="">.</doi:10.1093>	
Licens	se GPL-3	
Encod	ling UTF-8	
Roxyg	genNote 7.1.1	
URL	https://celehs.github.io/PheNorm/	
BugR	<pre>eports https://github.com/celehs/PheNorm/issues</pre>	
Sugge	ests knitr, rmarkdown, testthat	
Vigne	tteBuilder knitr	
Repos	sitory https://celehs.r-universe.dev	
Remo	teUrl https://github.com/celehs/phenorm	
Remo	teRef HEAD	
Remo	teSha 7ea2ecee5b4ce88c029eee22341cc5536167effc	
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2 PheNorm.Prob

PheNorm.Prob

Fit the phenotyping algorithm PheNorm using EHR features

Description

The function requires as input: * a surrogate, such as the ICD code * the healthcare utilization It can leverage other EHR features (optional) to assist risk prediction.

Usage

```
PheNorm.Prob(
  nm.logS.ori,
  nm.utl,
  dat,
  nm.X = NULL,
  corrupt.rate = 0.3,
  train.size = 10 * nrow(dat)
)
```

Arguments

```
nm.logS.ori name of the surrogates (log(ICD+1), log(NLP+1) and log(ICD+NLP+1))

nm.utl name of healthcare utilization (e.g. note count, encounter_num etc)

all data columns need to be log-transformed and need column names

nm.X additional features other than the main ICD and NLP

corrupt.rate rate for random corruption denoising, between 0 and 1, default value=0.3

train.size size of training sample, default value 10 * nrow(dat)
```

Value

list containing probability and beta coefficient

Examples

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