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PONDICHERRY – VILLUPURAM – CUDDALORE-CHENNAI

MINING HEALTH EXAMINATION RECORDS

A GRAPH-BASED APPROACH

ABSTRACT

General health examination is an integral part of healthcare in many countries. Identifying the participants at risk is important for early warning and preventive intervention. The fundamental challenge of learning a classification model for risk prediction lies in the unlabeled data that constitutes the majority of the collected dataset. Particularly, the unlabeled data describes the participants in health examinations whose health conditions can vary greatly from healthy to very-ill. There is no ground truth for differentiating their states of health. In this paper, we propose a graph-based, semi-supervised learning algorithm called SHG-Health(Semi-supervised Heterogeneous Graph on Health) for risk predictions to classify a progressively developing situation with the majority of the data unlabeled. An efficient iterative algorithm is designed and the proof of convergence is given. Extensive experiments based on both real health examination datasets and synthetic datasets are performed to show the effectiveness and efficiency of our method.

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EXISTING SYSTEM:

Although Electronic Health Records (EHRs) have attracted increasing research attention in the data mining and machine learning communities. The approach is limited to a binary classification problem (using alive/deceased labels) and consequently it is not informative about the specific disease area in which a person is at risk. Unlabeled data classification are commonly handled via Semi-Supervised Learning (SSL) that learns from both labeled and unlabeled data, and Positive and Unlabeled (PU) learning, a special case of SSL that learns from positive and unlabeled data alone.

DISADVANTAGE OF EXISTING SYSTEM

- Most existing classification methods on healthcare data do not consider the issue of unlabeled data.

PROPOSED SYSTEM:

In this paper, we propose a graph-based, semi-supervised learning algorithm called SHG-Health (Semi-supervised Heterogeneous Graph on Health) for risk predictions to classify a progressively developing situation with the majority of

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the data unlabeled. An efficient iterative algorithm is designed and the proof of convergence is given. Extensive experiments based on both real health examination datasets and synthetic datasets are performed to show the effectiveness and efficiency of our method.

ADVANTAGE OF PROPOSED SYSTEM:

- We present the SHG-Health algorithm to handle a challenging multi-class classification problem with substantial unlabeled cases which may or may not belong to the known classes.
- This work pioneers in risk prediction based on health examination records in the presence of large unlabeled data.
- A novel graph extraction mechanism is introduced for handling heterogeneity found in longitudinal health examination records.
- The proposed graph-based semi-supervised learning algorithm SHG-Health that combines the advantages from heterogeneous graph learning and class discovery shows significant performance gain on a large and comprehensive real health examination dataset of 102,258 participants as well as synthetic datasets.

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SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS

- Processor - Pentium –III
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Floppy Drive - 1.44 MB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

SOFTWARE REQUIREMENTS

- Operating System : Windows 8
- Front End : Java
- Database : Mysql

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