MACHINe LEARNING - PREDICTING ER VISITS

Posting ID: IN177014B3
Company Website: https://www.carecognitics.com/

Company: Care Cognitics
Work Location: Las Vegas, NV

Position Type: Part-Time
Salary:

College Major(s): Computer Science (CS)
College Level(s): Graduate Student, PhD.

Student

OVERVIEW

Today, there are over 40 million seniors aged 65 years and over who suffer from multiple chronic conditions. In order to improve quality of care and reduce cost we must find an effective way to engage this population. But, it is a tough problem to solve because this group is not your typical smartphone user or a Fitbit adopter or a Facebook affectionate. There is very little digital data available for this group to understand their behavior and influence change; they are “digitally dark”.

At CareCognitics, a digital health company with a mission of enhancing health care through data science, we are addressing this problem. Through value based programming, predictive modeling and personalized rewards, our platform increases the engagement of managed health care for this group of people.

We are currently working with over 10 Physicians and managing over 2000 patients. Our path ahead is critically dependent on generating insights and predictive models that will help us manage these patients in a timely and a proactive manner.

Roles and Responsibilities

ER visits are the top driver of costs. Studies have shown that 80% of the ER visits can be avoided by timely and primary care physician visits. Our goal is to identify which Patients are likely (75% or higher probability) to go to ER in the next 30 days.

There are many factors that can influence such a predictive model:
● The chronic conditions of the patients
● Any recent visit to the ER
● Proximity of the ER facility to where they live (It’s just easier to go to ER than to their PCP)
● Time of the year (for example there are many dehydration related ER visits in Summer)
● Time of the day (nights and weekends) causing a ER visit

There have been many industry attempts to predict ER visits and groups have seen success in predicting repeat ER visits. Our goal is a bit broader as we want to predict repeat AND initial ER visit as well.
Education and Qualifications
Masters or PhD level CS student

Preferred Skills
Data science research experience a plus

How to Apply
Send resume to stara@carecognitics.com