
TOM KNIGHT

tknight@invistics.com

Required Skills:

No Preference

Preferred Team Communications:

Conference Call, to be discussed

Data Sources:

As part of the NIH research, we have already manually extracted and consolidated data from millions of medications dispenses and administrations across seven hospitals across the country. Each hospital has provided these data from their Electronic Health Records, and Automated Dispensing Cabinets, as well as additional data from their Internal Inventory Systems, Wholesaler Purchasing Systems, and Employee Time Clocks. This data will be available to you and your team as you build more automated, streamlined data extraction and consolidation methods.

Other Items:

n/a

Team Info:

Developer, Analyst, DBA, Tester,
Project Manager

Intellectual Property: None

PREVENTING OPIOID THEFTS AND DRUG DIVERSION IN HEALTHCARE

The National Institutes of Health (NIH) has funded this national study to improve the detection of drug diversion in hospitals. Our Atlanta-based software company, Invistics Corporation, is leading the study, in collaboration with seven health systems across the country. Initial results are very promising, with our machine learning analytics successfully detecting drug diversions more effectively, and significantly earlier than existing methods. We have used manual, labor-intensive methods for extracting data from source IT systems, and want to build improved data extraction and integration methods using FHIR, with help from you and your teammates during GT CS6440.

PROJECT OBJECTIVES

Identify and build automated methods to extract data from multiple IT systems across seven hospitals and integrate that data into a consolidated database that can be used to (1) detect opioid thefts and drug diversion within those hospitals, and (2) build a national database of known drug diversion cases at the not-for-profit website HealthCareDiversion.org.

SUCCESSFUL PROJECT

To be discussed.
