
JUAN BANDA
YUBAO WU

jbanda@gsu.edu

Required Skills:

(List skills needed) – No Preference, to be discussed

Preferred Team Communications:

Skype, WebEx / GoToMeeting

Data Sources:

To be Discussed

Other Items:

Project has time zone flexibility. Mentors and students will determine a good time for virtual meeting

Team Info:

Needs a Developer, Analyst. Allows one team of 4-6 members.

OPIOID CRISIS DASHBOARD

We are proposing to create a dashboard that gives us near real-time vital statistics on the opioid epidemic that is currently a public health emergency in the USA. Opioid overdoses accounted for more than 42,000 deaths in 2016, more than any previous year on record. An estimated 40% of opioid overdose deaths involved a prescription opioid. (<https://www.hhs.gov/opioids/about-the-epidemic/index.html>). Most publicly available statistics have a considerable lag time and are at very high-level of detail. We want to take advantage of the FHIR capabilities in EHR systems to observe the viability of creating up-to-date statistics and summaries that can be leveraged with other data sources (social media data) to provide better understanding and possible actions against the current opioid epidemic.

PROJECT OBJECTIVES

- 1) Identify the data elements available via FHIR that are relevant to the opioid epidemic (prescriptions, outcomes, etc.)
 - 2) Determine ways of representing the underlying data which are both informative and yet not too granular for sharing purposes
 - 3) Build an interactive dashboard that would allow other researchers to gather near real time statistics and be able to extrapolate them with data mined from other sources (social media data) to generate more robust insights.
-

SUCCESSFUL PROJECT

To Be Discussed

Intellectual Property: No constraints, but it would be ideal to make this open source.