9/08/2014
Department/Lab/Center: Sloan School of Management
Faculty Supervisor: Prof. Karen Zheng

Project Title: A Big Data Approach for Addressing Non-traditional Adulteration of Food and Drug Products Emanating from the Global Supply Chain

Project Description: This is a project focused on using big data to develop a risk management framework for detecting non-traditional adulteration of food and drug products emanating from the global supply chain. As supply chains have become more globalized, such adulterations have become a serious issue and have prompted new strategic initiatives at the FDA. The aim of this initiative is to incorporate a wide array of big data sources such as online news sites, blogs, and academic articles into a set of analytic tools and capabilities which will automatically detect, manage and mitigate the risk associated with instances of imported adulterated food and drug products.

Responsibilities: The project will involve searching for and collecting data from a wide array of online sources and electronic databases, performing content analysis, converting unstructured text data into a structured database, and performing basic analysis on the data.

Prerequisites: Ability to read Chinese. Intermediate programming skills for web-crawling and databases are desired.

Duration and Commitment: Start as soon as possible. Commit to 15 – 20 hours per week. End date is negotiable.

Wage: $15/hour

Contact: Please contact Professor Karen Zheng, yanchong@mit.edu