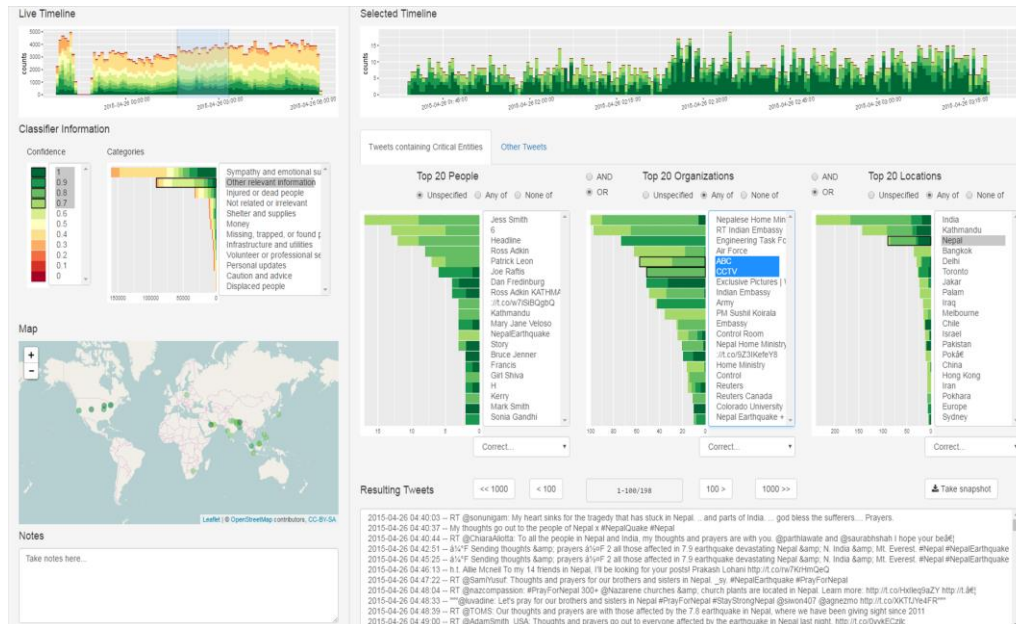


Title: Interactive monitoring of critical situational information on social media

Project Description

Although according to many existing studies the data available on social media platforms such as Twitter at the onset of a crisis situation could be useful for disaster response and management, making-sense of this huge data coming at high-rate is still a challenging task for crisis managers. In this project, we aim to extend the AIDR interactive dashboard (<http://aidr.qcri.org/>) to enhance its social media monitoring capabilities to help formal response organizations analyze big crisis data in a timely-manner. The tool uses a supervised classification engine and other natural language processing techniques to provide detailed view of an on-going situation. The tool allows users to apply various filtering options using timelines, critical entities, and other logical operators to get quick access to situational information. We aim to extend it by getting users feedback to improve the performance of various Machine Learning models used to categorize data.



Objectives:

- Improve the interface to take users feedback into account to improve machine learning models
- Connect the visual interface to the real-time classified stream of AIDR
- Conduct a user study to evaluate the new interface

Required Skills: R, Java, HTML, Javascript, D3.js, SQL

Learning Opportunities: The intern will acquire deeper knowledge of R, D3, Data Visualization and skills to conduct user studies, and will work closely with the mentors to design and evaluate the tool. If successful, the project outcome will be reported in a research paper.

Expected team size: 2 interns

Mentors: Dr. Michael Aupetit (maupetit@hbku.edu.qa); Dr. Muhammad Imran (mimran@hbku.edu.qa)