

## DeepMaps

### **Project Description:**

The main objective of this project is to track and detect in real-time meaningful events taking place in the city of Doha. Events here refer to any human activity that takes place in a particular place and has start/end time. Examples include festivals, music concerts, sport games, etc. A first version of the software was developed last year. This year we would like to do real-time detection from social media channels such as Twitter.

**Duties/Activities:** detecting real-time events of Doha from Twitter, reading data and inserting the data into database, visualizing real-time events on interactive map.

**Required Skills:** Python, mongoDB, Javascript/HTML

**Learning Opportunities:** This project is a great opportunity to learn how to analyze data and visualize it in an interactive dashboard.

**Expected Team Size:** *Ideally two interns.*

### **Mentors**

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## **Timeline:**

### **Week 1:**

- Introduction to DeepMaps
- Setting-up the development environment (Python, mongoDB, HTML/Javascript)

### **Week 2-3:**

- Developing Backend - API
  - Collecting real-time events from Twitter by monitoring event organizers in Doha and by collecting tweet using defined keywords
  - Inserting the data into database
  - Creating API

### **Week 4-5:**

- Developing front-end application
  - Map
  - List of events
  - Input query (time, venues, etc ..)

**Week 6:** application deployment on server

**Week 7:** Eid-Vacation

**Week 8:** Preparing the Presentation