

# Project Title: AIDR Twitter Image Analysis

## Project Description:

Social media platforms such as Twitter contain valuable information potentially useful for a variety of real-world applications including situational awareness during natural and human-induced disasters. However, social media data is often noisy, i.e., full of irrelevant and duplicate content. Finding useful information on social media is like finding a needle in a haystack.

This project aims at developing an extension of a web application to visualize image streams processed and classified by the AIDR system during disasters. The AIDR system uses machine learning techniques to process social media images in real-time.

The application will offer a variety of filters to allow an easy search of thousands of images collected over several days and weeks. Moreover, the application will provide an option to show a live stream of images.

## Duties/Activities:

Improve the functionality of [https://aidr-dev2.qcri.org/hurricane\\_dorian/image\\_analysis.php](https://aidr-dev2.qcri.org/hurricane_dorian/image_analysis.php) by:

- Designing and developing an Elasticsearch database,
- Developing UI/UX to improve the look and feel of the interface,
- Adding the capability to correct/update the labels of the images via the interface.

## Required Skills:

- Web application development in Javascript, PHP
- Front-end development in Vue JS or other Javascript frameworks
- PHP and Node Restful API implementation
- Databases (Elasticsearch experience is a plus)

**Preferred Intern Academic Level:** Any, if the applicant has the required skills.

## Learning Opportunities:

- Web application development for a real-world use
- Elasticsearch database design and development
- Good programming practices

**Expected Team Size:** 2

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