# Lab 6 Report

The purpose of this lab was to familiarize ourselves with MLlib within Apache Spark. We spent quite a bit of time configuring the code trying to get it to run. While not ideal, it gave us plenty of time to understand how MLlib works. To make the lab relevant to our project, NightBot, we edited the training data so it was related to crime and safety.

The queries that we generated are related to:

* Crime (for local statistics)
* Getting help (text or call a relative for help)
* Severe Weather Alerts
* Safety reports for the home
* International events (in case the user is traveling abroad)

An example of the Crime training set of .txt files:

* Is there any crime near me?
* Any crime in Kansas City?
* Please report on crime in Kansas City.
* Are there any crime reports in Kansas City?
* What is the crime like in Kansas city?

Pictured below is a screen shot. I ran the Naïve Bayes algorithm and you can see in the log the key words that puts into an array. 