**Date:** May 17, 2021

**Subject:** Discussion on InfluxDB Streaming Framework

**Attendees:**

* **MDS Team:** Nathan Smith, Mitch Harris, Ryan Koenig
* **UDL Team:** Jiachen Wei, Ibrahim El-chami

**Agenda:**

**1 – Potential Anomaly Detection Frameworks with InfluxDB**

Use the PowerPoint file ‘streaming\_options.ppt’ as a starting point for discussion.

Approach described in PowerPoint seems reasonable. Best to be able to train the model offline, update parameters, and then have a predict script that is fast and uses the parameters.

Ideally, could test the model setup of having the anomaly prediction inline with data streaming to InfluxDB (which seems ideal) or instead having prediction query/write from the database.

Using telegraf for the streaming process seems good if it works (and potentially even routing to Azure).

**2 – Discussion on Anomaly Detection Methods**

In general, selecting a method that is fast/low power requirements and could ultimately run on edge would be idea. But the focus will be to get an anomaly detection system working and go from there.

**Schedule:**

* Starting in on Week 3
  + EDA is a bit behind as discussed
  + Anomaly detection background review completed
  + Starting to build/test various frameworks this week
* By the end of the week need to have a good understanding of the model and framework that we’ll be implementing in Week 4

**Next Steps:**

* Meeting with Tech Safety BC Friday (May 21) – provide an agenda and ~10 min ppt Thursday for discussion
* Ryan to meet with EWS? At 10am Tuesday (May 18)