

## **Requirements Engineering**

### **Business and Functional Requirements**

#### **Functional:**

1. Datasets that are designed for the purpose of benchmarking anomaly detection machine learning programs.
2. An understanding of valid anomalies and with that benchmarking/ training a machine learning model to assess dataset anomalies as a threat or not.
3. Streaming capabilities for new incoming data so it may be assessed with the data model.
4. Visualization for users to understand the quantity and risk of anomalies that occur.

#### **Business:**

1. This project uses Amazon Web Services streaming platforms and would require the setup of streaming logs to the anomaly detection application.

#### **Available Resources:**

Any publicly available datasets can be used to detect anomalous events.

AWS Kinesis/Spark streams, spark streaming, SQL or other similar streaming technologies can be used