**Anomaly detection in discrete sequences.**

1. **Project aims & objectives**
   1. **Primary objectives:**

* Literature review (understanding, looking at different approaches);
* Proposing appropriate methods;
* Visualise suggested dataset and search for (open source) alternative dataset; \*
* Apply proposed solution (finding tools/techniques to best use the data);
* Analyse and present novelty detection results.
  1. **Advance objectives:**
* Understand and visualise real dataset;
* Tailoring proposed solution to suit real world data (engine dataset);
* Investigating and implementing further solutions;
* Investigate Predictive/normality based schemes;\*\*

Unlabelled real engine data;

\* Look into cyber attacks data; Use existing, simpler dataset as learning material to prepare for the engine dataset.

\*\*Abnormality modelling (predictive model).