**Toolkit to identify Known Patterns on top of CEP**

**Implementations**

Stock Patterns 🡪Maximas and Minimas

* Kernel Regression
* Moving Averages
* Kalman Filter
* (ARIMA)
* HMM (Allocate time and check on this) **(Impt!)**
* Rule Base
* Rule + Smoother
* Ensemble

Implement each of those on CEP.

If the input is different from the output use transforms, otherwise windows can be used.

Use data from five companies and used half of those for training and the rest as inputs.

Using Fitness measure: Use a measure which is already discovered one for evaluation as it is hard to identify a perfect measure.

Check further with known **Oil Patterns**

**1st Phase**

Mark maximas and Minimas on the data set

**2nd Phase**

Draw patterns on the streaming data and erase/cancel drawing it once it deviate from the expected pattern

**Research Paper**

* Submit a paper for DEBS or
* Submit a paper for its technical track
  + Important dates of the DEBS : <http://www.debs2015.org/important-dates.html>

**Reminders**

Contact Ms. Dilini and get details regarding connecting to a CEP socket and extracting data through it.